

THE SUPERIOR COLLEGE LAHORE



Faculty of Computer Science

Final Year Project

FindInPak

PROJECT ID: FYP-BSCS-F18-026

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Project Report

FindInPak

Change Record

Author(s)	Version	Date	Notes	Supervisor's Signature
MudassarRasool AwaisAnwar NoumanQayyum	1.0		1.0 version of findinpak	

APPROVAL

PROJECT SUPERVISOR

Comments: _____

Name: _____

Date: _____

Signature: _____

PROJECT MANAGER

Comments: _____

Date: _____

Signature: _____

HEAD OF THE DEPARTMENT

Comments: _____

Date: _____

Signature: _____

Dedication

We dedicate this project to ALLAH Almighty our creator, our strong pillar, our source of inspiration, wisdom, knowledge and understanding. He has been the source of my strength throughout this program and on His wings only have I soared. We also dedicate this work to our Parents and teachers who always taught us to be honest, & do hardworking if you want to achieve something in your life.

Acknowledgement

I would like to express my deep gratitude to my honorable supervisors Professor Mr. Muhammad Ahmed, for their patient guidance, enthusiastic encouragement and useful critiques of this research work. I would also like to thank the head of FYP Dr. Malik Shehryar who gave us the golden opportunity to do this wonderful project 'FindInPak' which also helped us in doing a lot of Research. Finally, I wish to thank my parents, teachers and friends for their support and encouragement throughout my study.

Executive Summary

We are making a website with a name FindInPak.com. Our idea is basically a search base portal where user can easily find different types of jobs, vehicles, real estate or any type of books, notes and other classified related data in a single website. The idea is very simple & unique and has not been fully implemented yet, so we are having a great chance to bring something that can be the part of our Market. Later we've thought to do it commercially, in a large scale. Our purpose is to attract most of the people from social sites from our website. In this website we have four actors that performs different functionality for example. A admin can make account of sub admin also manage the website etc, on the other hand a user can Add post for jobs and tags to different company's and agents, also user can search different items (jobs, real estate, vehicles and books or notes) and apply, buy or download (free and premium).Moreover clients and agents upload Items and hire for jobs. Agent can find companies for customer and help to find a good jobs.

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Chapter 1

Introduction

Chapter 1: Introduction

FindInPak is a web base application provide a pure satisfied searching platform for its users where's the user search any kind of jobs and any kind of vehicles, Services, Real Estate and other classified and study data. Users can easily find the whole things in a single platform. FindInPak used find available job vacancies and Employers to identify eligible jobs. Different type of jobs you can see it may be government, private and any newspaper jobs. It also used for finding vehicles and Real Estate easily in low and high cost. Study related data for example past papers university notes, documents and any kind of books for every type of students. User can upload Jobs, Vehicles, Real Estates and our Documents freely. FindInPak has introduce candidate feature if any one need job it will simply request for job in this system our clients are different company if they have any vacancy they will be hire them. It may free and premium depending on company and user.

1.1. Background

Based on the Job, Vehicles, Real Estates and Documents Search Portal web application requirements, I have made the choice of frameworks to be used. This application primarily consists of main component are web application that allows user for apply Job vacancies, Real Estates, Vehicles and Documents with required information for which can view and apply according to their interests. The web application is developed MySQL database. The front end is developed using HTML, CSS, JavaScript, jQuery and Bootstrap. Web services are deployed in the Apache XAMPP server.

1.2. Motivations and Challenges

The purpose of developing FindInPak provide Online Search Portal. Comes from my idea to make the search efficient and handy. It will help user to search Job vacancies, Real Estates, Vehicles and Documents at a single point. Therefore, we can say that FindInPak Search Portal act as a bridge of communication between organizations and applicants. With the evolution of technology and internet being the main source of information for the applicants, these search

portals and have become an excellent method to reach wide range of audience. Initially, when I am unaware of these portals, I used to do research about companies and their technology stack through their respective websites and apply if the job responsibilities matches my interests. This requires lots of effort and time. However, later when I realized the importance of FindInPak Search portal, I am able to access Job Vacancies, Vehicles, Real Estates and Documents. The Challenges we facing are it is difficult to adjust all things in a single platform. Difficult to manage whole data in single database. Convene users to use our web applications.

1.3. Goals and Objectives

Following features we will provide, & following goals we will try to achieve:

Our goals to compete all existing websites one by one and become a no.1 searching website in Pakistan. And our objective are.

- a. To provide 24/7 service to all its users.
- b. To store all information of its employees, users, our clients, jobs and other functions.
- c. Easy to maintain and provide better performance.
- d. User can easily Register himself and search from category.
- e. To provide secure login all the users.
- f. To display clear pictures of the property, job, vehicles, and documents to the user.
- g. To let seller or dealer post pictures of these.
- h. To provide a uniform look to website.
- i. To provide many help frames so that user can easily use this product.
- j. To provide a portable product, this is available to all.
- k. To keep track of the data using database.
- l. Easy to update and delete jobs and other product.

1.4. Literature Review/Existing Solutions

In older days when we want to search jobs then we search newspapers, directly contact with company for finding job and apply our documents hand to hand. In newspaper we have difficulty to find our type of job. If we see property in older days then we see how difficult to find and purchase property if we can purchase property then we can't directly communicate with the owners. We must contact with the help of mediators, but the mediators take a lot of amount and it is also a time-consuming process. In older days the property dealing procedure consists of many steps like finding agent, appoint correct meeting time, location and so on. And if we buy a new and usable vehicle then hardly search vehicles and it is also a time-consuming process. And if we talk about Searching Books documents, purchase documents and books it will be very costly.

The existing sites are:

www.jobz.pk

www.rozee.pk

www.pctresearchgroup.com

www.slidshare.com

www.pakwheels.pk

www.zameen.pk

These websites are providing online jobs, vehicles, properties and documents searching. By using these websites we can easily find our suitable jobs, easy to find vehicles, properties without lots of consuming time and easy to download books free or low cost. The problem statements are people find it difficult to find job, vehicle, Documents and any type of services we have no single platform for search all things.

To solve this problem we introduce FindInPak. It provides a single platform to searching all things extra feature we introduce are candidates system. If any candidate need for job,

vehicles, property, Documents it will simply upload our post and if anyone can hire them or any one buy and sale property and vehicle they will contact him it will be public and private.

1.5. Gap Analysis

Currently we are going to target Pakistan first then we are planning to expand it difference counter.

Planned Strategy:

Our main focus on users and its requirements. We also planned to register more than more clients and customers.

1.6. Proposed Solution

- a. Building a common platform for all users search everything in a single platform.
- b. User can find jobs and apply for jobs.
- c. User can upload a post for jobs and tags to our different types of clients.
- d. User can upload Vehicles for sale and can also buy a vehicle.
- e. Find property wherever user wants in Pakistan and also upload for sale.
- f. Companies can register and make our clients and also post our jobs.
- g. Free and premium books are upload and download.
- h. Easy to understandable interface.

1.7. Project Plan

Phases	Description of Work	Start and End Dates
Phase One	Documentation	Max. 3 Months
Phase Two	Develop Website	Max. 3 Months

Phase Three	Testing & remove Error	Max. 1 Month
--------------------	------------------------	--------------

1.7.1. Work Breakdown Structure

1. Project Management

- 1.1. Work Breakdown Structure (WBS)
- 1.2. Roles & Responsibility Matrix
- 1.3. Change Control System

2. Reports / Documentation

- 2.1. Final Documentation Introduction
- 2.2. Literature / Markey Survey
- 2.3. Requirements Analysis
- 2.4. System Design
- 2.5. Implementation
- 2.6. Testing & Performance Evaluation
- 2.7. Conclusion & Outlook
- 2.8. End User Documentation
- 2.9. Application Administration Documentation
- 2.10. System Administrator Documentation

3. System

- 3.1. Development Environment
 - 3.1.1. IDE
 - 3.1.2. Version Control
 - 3.1.3. Server
 - 3.1.4. Database
- 3.2. Presentation Layer
 - 3.2.1. Wire-frames
 - 3.2.2. Front End Designing
- 3.3. Business Logic Layer

- 3.3.1. ER Diagram
- 3.3.2. Database Design and Implementation
- 3.4. Data Management Layer
 - 3.4.1. Server Side Scripting
 - 3.4.2. Front End Integration
- 3.5. Physical Layer
 - 3.5.1. Deployment on Test Server
 - 3.5.2. Testing & Bug Fixing

1.7.2. Roles & Responsibility Matrix

With such a limited amount of personal to accomplish the project, each team member will be responsible for multiple roles in order to complete the project on time.

#	Roles	Member names	Responsibility
01	Team Leading	MudassarRasool	Responsible to manage the whole the project. Contact the supervisor about update any issues that occur throughout the project.
02	Report and documentations	AwaisAnwar NoumanQayyum	Responsible for the whole project documentation.
03	Requirements Analysis	NoumanQayyum	Collect and Analysis the Requirements of the Persons by using feedback.
04	Front-End	AwaisAnwar NoumanQayyum	Work on responsive User Interface.
05	Database	MudassarRasool AwaisAnwar	Work and manager database.
06	Back End	MudassarRasool AwaisAnwar	Backhand Programming to make the whole project.

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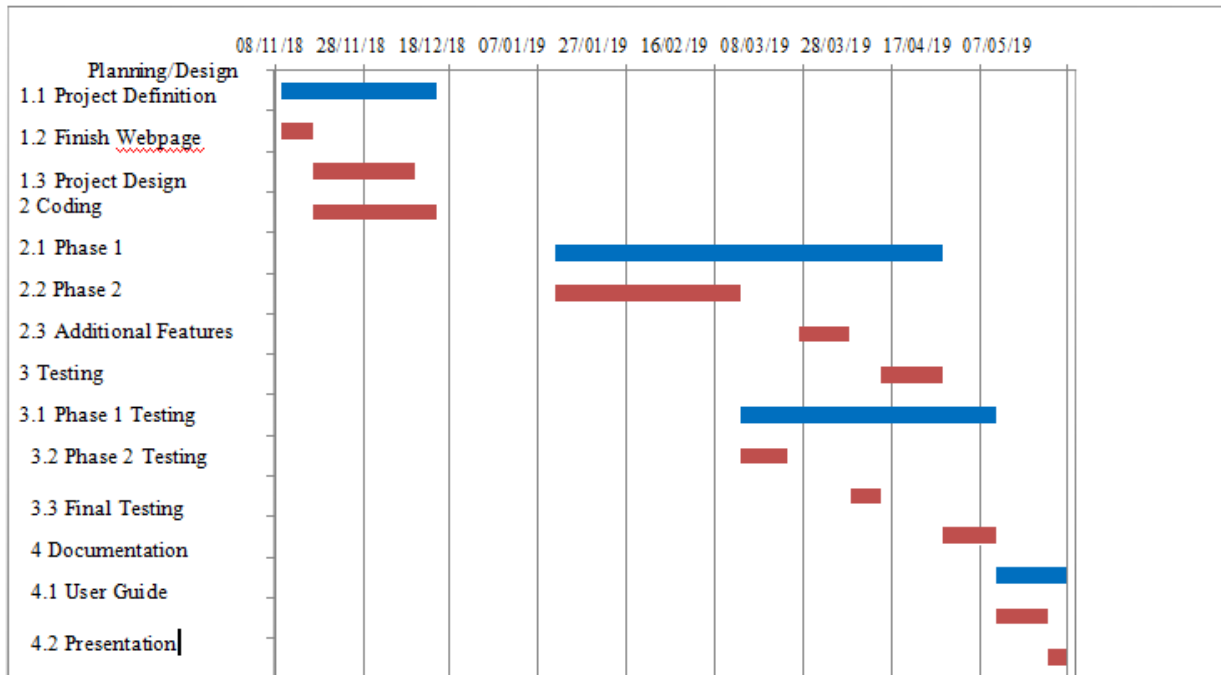
1.7.3. Gantt chart

The Gantt chart below is a tentative schedule of our plans for the remainder of the current semester and next semester. We will be using this schedule to make sure we stay on focus, however plans are not set completely and therefore might be changed before spring semester begins.

FindInPak				
#	Tasks	Start Date	Duration(Days)	End Date
1.0	Planning/Design	11/10/2018	35	15/12/2018
1.1	Project Definition	11/10/2018	07	17/11/2018
1.2	Finish Web Page	11/10/2018	23	10/12/2018
1.3	Project Design	11/10/2018	28	15/12/2018
2.0	Coding	01/01/2019	88	09/04/2019
2.1	Phase 1	01/01/2019	42	22/02/2019
2.2	Phase 2	07/03/2019	12	19/03/2019
2.3	Additional Features	26/03/2019	14	09/04/2019
3.0	Testing	22/02/2019	58	21/04/2019
3.1	Phase 1 Testing	22/02/2019	11	05/03/2019
3.2	Phase 2 Testing	19/03/2019	07	26/03/2019
3.3	Final Testing	09/04/2019	12	21/04/2019

4.0	Documentation	21/04/2019	25	15/05/2019
4.1	User Guide	17/05/2019	12	30/05/2019
4.2	Presentation	03/06/2019	12	15/06/2019

FindInPak Project Plan



1.8. Report Outline

Introduction

What we are going to do?

- Background
 - What currently happening in the market
- Motivation & Challenges
 - Discussed in detail
- Goals and Objectives

- Discussed how to achieve our goals.
- Existing System
 - Discussed what unique we are having, how could survive in a market
- Gap Analysis
 - Discussed Gap Analysis & Discussed what is our planned strategy?
- Proposed Solution
 - Discussed the solutions of the problems
- Project Plan
 - Made a project plan so we could complete our project in a time.
- Work Breakdown Structure
 - Discussed in detail
- Rules & Responsibility
 - Divided task in team members
- Gantt Chart
 - Made a chart so could complete our project in a time.

Chapter 2

Software Requirement Specifications

Chapter 2: Software Requirement Specifications

Revision History

Name	Date	Reason For Changes	Version
MudassarRasool Nouman Ghuman AwaisAnwar	11-12-18	Initial Version	1.0

2.1. Introduction

2.1.1. Purpose

The purpose of the SRS is to collect and analyze all assorted ideas that have come up to define the system, its requirements with respect to consumers.

This document describes the software requirements for a web based Application that is FindInPak. It is meant to be used to maintain a shared understanding of the requirements between the developers and the clients of the system. This document describes the project's user interface, hardware and software requirements. It helps any designer and developer to assist in software delivery life-cycle (SDLC) processes.

2.1.2. Document Conventions

This document uses the following conventions.

SQL Lite: Android Database

Main Heading Titles

- Font: Calibri
- Face: Bold
- Size: 20

Sub Heading Titles

- Font: Calibri
- Face: Bold
- Size: 14

Other Text Explanations

- Font: Calibri
- Face: Normal
- Size: 12

2.1.3. Intended Audience and Reading Suggestions

This document is written for requirement engineer, developer and project manager. Before reading this document it is highly recommended to read the vision document to get an overview of the product. The developer and the project manager need to become intimately familiar with the SRS.

2.1.4. Product Scope

Our objectives and goals of the product that we are trying to facilitate its user and our clients, that they can upload our jobs, vehicles, real estates and any type of documents in a single platform free and premium. User and clients can earn money to upload our different types of items. If we can say that this application can be used for business it is true. Our benefit are we earn money by ads and commission from different premium items.

2.1.5. References

The following websites are referred:

<http://www.w3schools.com/>

<https://bootsnipp.com/>

<https://stackoverflow.com/>

2.2. Overall Description

2.2.1. Product Perspective

It is a web based system implementing client-server Application. FindInPak portal System provides simple mechanism for users to share and acquire Documentations, buy and sale vehicles, real estate and also find and upload jobs.

The following are the main features that are included in FindInPak

- a. User account: The system allows the user to create their accounts in the system and provide features of updating and viewing profiles.
- b. Search: search is simply local search engine based on key words.
- c. Discussion Forum: Provides users with a platform to discuss and help each other with their problems

2.2.2. Product Functions

FindInPak provides online real time information about the available jobs, vehicles, real estates and any type of documents. The functions of the system include

2.2.2.1 Account Registration

The registration function shall allow users to create secure accounts. The account will track the user's name, email address and password.

2.2.2.2 Account Login

The account login function shall allow account members to enter their username and password.

2.2.2.3 Reset Password

User can reset our Password by using our email address.

2.2.2.4 See and search Items

User can see and search different type of things without login. User can find jobs, vehicle, real estate and documentations without login. If user can perform any task like upload jobs, buy and sale vehicles and real estate or documentation they must be login.

2.2.2.5 Upload

User and clients can upload our jobs, vehicles and real estates for buy and sale they can also upload our books and importance documents for free. User can also upload post for need jobs and tags for difference companies and our clients.

2.2.2.6 Update and delete post

If user can upload our jobs and different things then they can be able to update and delete our post.

2.2.2.7 Update Account Information

The update account information function shall give account members access to edit their stored information.

2.2.2.8 Buy and sale

User can buy and sale using shopping cart.

2.2.2.9 Account Logout

The account logout function shall allow account members to exit their account for security purposes.

2.2.3. User Classes and Characteristics

The system will support three types of user that are admin, client, user and agent. They will have access to customer functions, and the employees will have access of the system management and admin who maintain the system. There are two type of customer that is if Customer are want to jobs then they are jobs seeker and the send you can say customer.

The customer should be able to do the following functions:

- a. Customer can search jobs and other things and apply for jobs.
- b. Customer can also upload post for need jobs and tags to our clients.
- c. Customer can buy and sale.
- d. They can also update and delete our post and record from the database.

Employees should do: Here our employees are our clients and agents.

- a. Employee can upload jobs and find any person who need jobs that he tag recently.
- b. Employee also upload things for buy and sale.
- c. Employee can also update and delete our post and record from the database.

Admin Should be able to maintain the system.

2.2.4. Operating Environment

In operating environment we need of a system which is connect with internet. The application begin developed is running in all latest web browser like Google Chrome, Opera etc. And fully support to Window xp, Window 8 and Window 10, MAC Operating system. Also run in any mobile phone.

2.2.5. Design and Implementation Constraints

The software will operate with following software components:

FindInPak only requires Apache server, MySQL and PHP to setup which can be easily done using the XAMPP which is free and open source cross platform web server packages consisting mainly of the Apache HTTP server, MySQL database.

Following tools are used in it:-

- ✓ XAMPP Server
- ✓ Dreamweaver
- ✓ Brackets
- ✓ Notepad++

Following languages are used in it:-

- ✓ PHP.
- ✓ CSS 3.
- ✓ Bootstrap 3.3.6
- ✓ HTML 5
- ✓ JavaScript

2.2.6. User Documentation

Users of the website must know how to navigate in a website.

- We will organize help-line for customer support in the future.

2.2.7. Assumptions and Dependencies

Website FindInPak is only accessible through the Internet, it is assumed that the user has a connection to the Internet. It is also assumed that the user has a web browser able to display the website. (I.E. Chrome, Microsoft Internet Explorer 4+ or compatible browser).It also Assumption that every things related to FindInPak are working correct with another operating

system and another browser because it is a web application and they run where the device connect to internet.

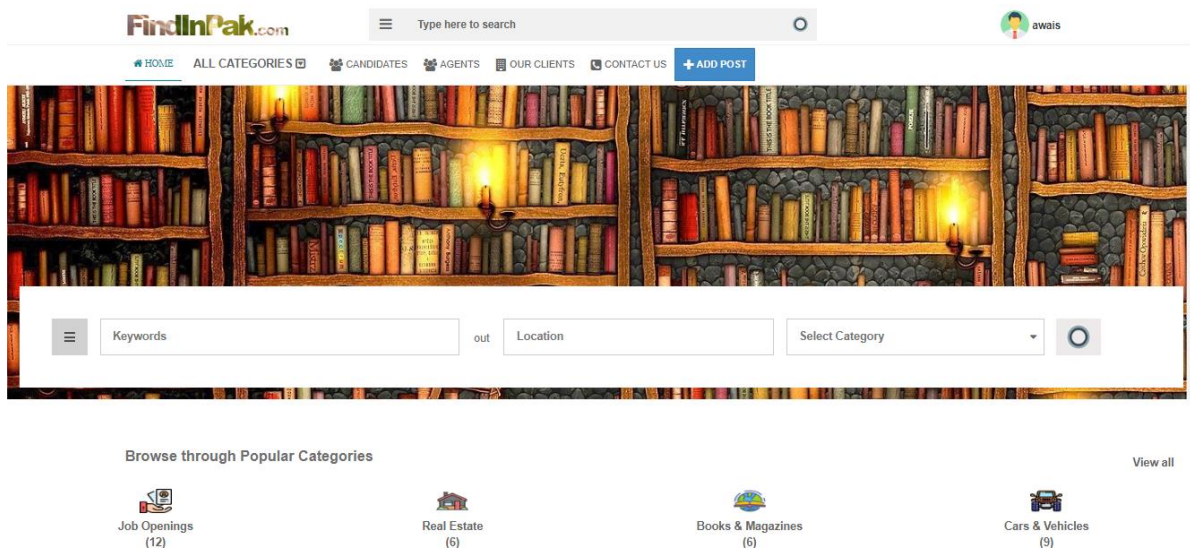
2.3. External Interface Requirements

2.3.1. User Interfaces

FindInPak has been specifically designed with keeping their user in mind. The home screen offers a menu with a list of function that system performs. The system will provide the ability for users to access our website via the Internet. User are able to see and search products jobs and different types of documents without login. User also can login, create account and able to logout to FindInPak.





User Interface:

- Front-end software: website.
- Back-end software: MySQL



 Electrics & Gedgets (5)	 Sports & Games (3)	 Fashion & Beauty (3)	 Pets & Animals (4)
 Home Appliances (3)	 Services (6)	 Music & Arts (3)	 Travel & Tours (0)

Most Recent Categories

 SALARY: 15000 - 20000 Jobs for accounting... Pakistan, Punjab, Lahore Salary Period: Monthly about an hour ago	 PRICE: 60000 Call centre,Marketing,Real Est... Pakistan, Punjab, Lahore Plot Form - 4 Marla a day ago	 PRICE: 3333 Pick and Drop Service... Pakistan, Punjab, Lahore Taxi a day ago	 PRICE: 30000 Dynamic Web development ser... Pakistan, Punjab, Lahore Web Development 10 days ago
--	---	---	--

Our Candidates

Home / Candidates

FILTER RESULTS

Select Gender

- Male (3)
- Female (1)

Select State




- Punjab (4)

Select City

- Hujra Shah Muqim (1)
- Lahore (2)
- Depalpur (1)

Total Search Record:5



	<p>awais anwar ♥</p> <p>CONTACT: 03074009696</p>
	<p>Ali Muhammad ♥</p> <p>Pakistan, Punjab, Depalpur</p> <p>Dairy farming Vehicle inspector pharmaceuticals</p> <p>CONTACT: +923030374489 YEARS OF EXPERIENCE: 5 YEAR</p> <p>I am a talented, ambitious and hardworking individual, with broad skills and experience in digital and printed marketing, social media and leading projects. Furthermore, I am adept at handling mult.... Read more</p> <p style="text-align: right;">More View profile</p>
	<p>Mudassar Rasool ♥</p> <p>Pakistan, Punjab, Hujra Shah Muqim</p> <p>WebApp Development PHP Databases</p> <p>CONTACT: 03054478988 YEARS OF EXPERIENCE: 3YEAR</p>

Our Agents

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FILTER RESULTS

Select Industry Type

- Advertising (1)
- web development (1)

Select State

- punjab (2)

Select City

Total Searched Record: 2



Abas ali (Agent)
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Rizwan Ahmad (Agent)
Advertising | [Pakistan, Punjab, Lahore](#)

SEO Company in Lahore A killer content strategy for SEO is crucial to get the top spots in search engine rankings. Our dedicated team of experienced [Read more](#)

[View profile](#)

Displaying page's 1/1



Our Clients

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FILTER RESULTS

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- Food industry (1)
- Education (1)
- Software (1)
- Construction (1)
- Advertising (1)

Select Sectors

- Money (1)
- Food & Fat (1)
- Sall pen (1)
- chatting application (1)
- Carpet Making (1)

Total Searched Record: 6



xyz group (c)
Advertising | [Pakistan, Punjab, Lahore](#)

We provide online social media marketing.... [Read more](#)

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Lahore Carpet Mfg (c)
Construction | [Pakistan, Punjab, Lahore](#)

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Zupion (c)
Software | [Pakistan, Punjab, Multan](#)

Zupion is a social media application develop by mudassarRasool. [Read more](#)

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SEND US A MESSAGE

Name












Email

Website

How can we help you?

Post your add free or premium Home / Add Post

CHOOSE A CATEGORY

-  Cars & Vehicles ▼
-  Electronics & Gedgets →
-  Real Estate →
-  Sports & Games →
-  Fshion & Beauty →
-  Job Openings →
-  Books & Magazines →
-  Music & Arts →
-  Home Appliances →
-  Pets & Animals →
-  Services →

[BACK TO CATEGORIES](#)

Include some detail for sale real estate (All field is mandatory)

[Real Estate](#) » [Real Estate](#) [Edit](#)

Purpose*

Property Type*

Property Title*

Land Area*

Unit*

Property Price*

Quick rules

Posting an ad on FindInPak is free! However, all ads must follow our rules:

- > Make sure you post in the correct category.
- > Do not post the same ad more than once or repost an ad within 2 hours.
- > In title field mention the key features of your items for example brand name, model, type etc.
- > Do not post enter any character in Year field * it must be a number for example 2019
- > Do not post enter any character in KMs driven* it must be a number for example any number
- > In select photos section you can select jpg, jpeg, png and gif.To batter performance of your add try to upload more and equal to '2' photos.
- > In Fuel, Condition and Transaction Type you just simply select according to your requirement.
- > Do not enter character in Price field.

Description*

Write few lines about your products

5000 characters left

Photos for your ad*

↑

Select Files to Upload

You can add multiple images.

Message: For better performance of your add, Then please upload more then 2 product images.

> In Description textarea you can enter whole description of your product. Description character must be less then 5000 words.
 > In Location* field you just select country, state and city.
 > Click button I wants to enter my city you can simply enter your own area to database.

Location*

Country*

Select Country
▼

State*

Select State
▼

City

Select City
▼

I want to enter my city

Seller Information

Your Name*

awaisanwar

Your Email ID*

awaischeema002@gmail.com

Mobile Number*

03074009696

+

HOME
DASHBOARD
ABOUT ME
ADD POST
MESSAGES

awaisanwar

03074009696
awaischeema002@gmail.com

MY POST

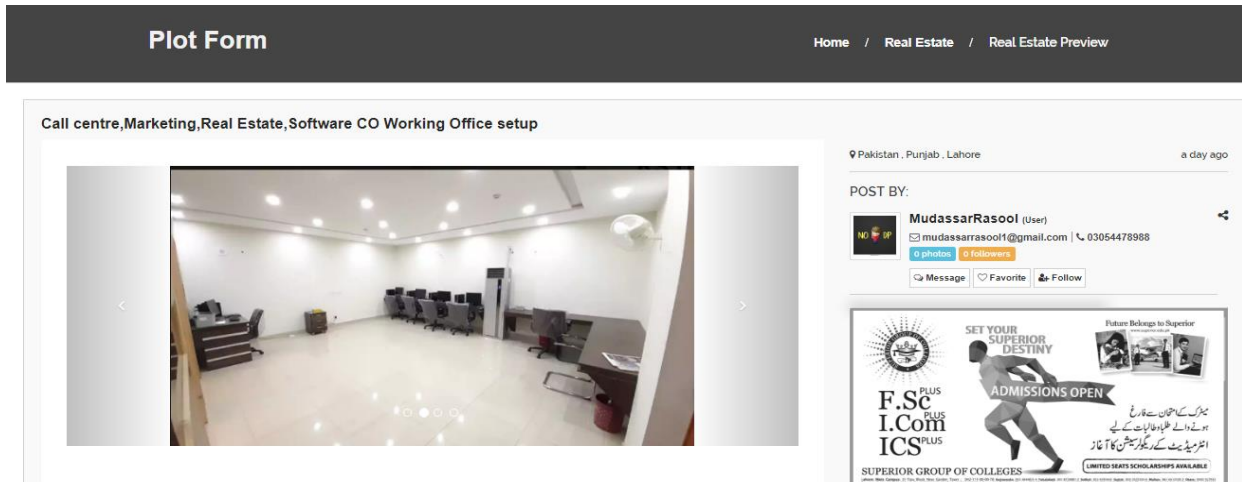
ACCOUNT SETTINGS

Logout

All Post Details

Displaying page's 1/1 1

Items	Titles	Price	Action
Photo	<p style="margin: 0;">Jobs for accounting</p> <p style="font-size: 0.7em; color: #666; margin: 0;">Jobs about 2 hours ago Likes</p>	<p style="margin: 0;">15000-20000</p>	<div style="display: flex; gap: 5px;"> <div style="background-color: #ffc107; padding: 2px 5px; border-radius: 3px; font-size: 0.7em;">✎</div> <div style="background-color: #dc3545; padding: 2px 5px; border-radius: 3px; font-size: 0.7em;">✖</div> <div style="background-color: #17a2b8; padding: 2px 5px; border-radius: 3px; font-size: 0.7em;">🔍</div> </div>



2.3.2. Hardware Interfaces

Interactions between the software and the hardware. It can also access web page to computer system.

- ✓ Processor: Pentium 4 or Higher.
- ✓ RAM: 1GB or Higher.

2.3.3. Software Interfaces

The SRS is compatible with window, LINUX and MAC operating system. In this system database containing image, text and video. The database can be updated with additional language. In this system we shall allow the users to complete secured communication with each other.

- ✓ Operating System: Unix, Linux, Mac, Windows
- ✓ Development tool: HTML, CSS, Bootstrap, PHP, JavaScript
- ✓ Database: MySQL

2.3.4. Communications Interfaces

FindInPak supports most of the web browsers. E.g. Chrome, Internet Explorer, Opera etc.

The protocol used shall be HTTP.

2.4. System Features

FindInPak is fully equipped with all the newly acquired features. It has adopted all characteristics of managing FindInPak in efficient manners. It is excellent for managing Jobs, Vehicles, Real Estate and different types of books and documents.

2.4.1. System Feature 1

2.4.1.1. Description and Priority

Our system will maintains information of different Users, different category and different types of orders for buy and sales. This project has a high priority for everyone because we divided into different category by country, by city, free and premium and also introduce rating base user and companies.

2.4.1.2. Stimulus/Response Sequences

Click "Register" Button: Account Registration

1. The system shall allow a non-registered user to create a secure account.
2. The system shall require the following information from the user: Name, Email, Phone, Password etc.
4. The system shall confirm the username and password are acceptable.
5. The system shall store the information in the database.

Click "Login" Button: Account Login

1. The system shall allow a registered user to log-in to their account.
2. The system shall require a username and password from the user.
3. The system will verify the username and password, and the user will be considered "logged-in".

Click "Search" Button: Searching

1. The system shall allow a user to searching jobs and other-things else without login and registered in this applications.
2. The system shall allow a user to filter your searching.
3. Different types of category user see while searching.

Click "upload" Button: Upload for buy and sale

1. The system shall allow a user to upload there things free and premium.
2. The system shall allow a user to upload a post for get jobs and tags to different companies.

Click "Edit/Update/Delete" Button: to edit or delete items

The system shall require a username to edit, update or delete products.

1. User can edit, update, and delete our product.

Click "Update profile" Button: to edit or delete items

1. The system shall require a username to update our profile.
2. Update verification sent to email.
3. If user can verify this email then user profile are updated otherwise user profile not updated.

2.4.1.3. Functional Requirements

REQ-SF1-1: User can able to register himself in FindInPak.

REQ-SF1-2: Only authentication user can login to application.

REQ-SF1-3: User can search anything in this application no problem user are login or not login, authentic user or not.

REQ-SF1-4: Authentic user can upload our product free and premium.

REQ-SF1-5: Authentic user can update our product.

REQ-SF1-6: Authentic user can edit our product.

REQ-SF1-7: Authentic user can update our profile.

2.4.2. System Feature 2

Admin can access the whole system. He can update & delete items.

2.4.2.1. Description and Priority

Admin can login & after logged in he can add other admin, he can add new items into website he can also update & delete items as well. He can add new categories & he can delete them as well.

2.4.2.2. Stimulus/Response Sequences

Click "Login" Button: Account Login

1. The system shall allow an admin to log-in.
2. The system shall require a username & id.
3. The system will verify the username and id, and the admin will be considered "logged-in".

Click "add sub-admin": for add & remove admin

1. The system shall allow registered admin to add new admin.
2. The system shall allow registered admin to delete registered admin.
3. The system shall require the following information from the user: Name, id.
4. The system shall ask the admin username and id.
5. The system shall confirm the username and id which is acceptable.

6. The system shall store the information in the database.

Click "categories" Button: add & remove categories

1. The system shall allow an admin to add categories.
2. The system shall require a username & id to add & remove categories.
3. The system shall allow an admin to remove categories.

Click "add products" Button: to add products

The system shall require a username & id to add products.

Click "Edit/Delete" Button: to edit or delete products

The system shall require a username to edit or delete products

2.4.2.3. Functional Requirements

REQ-SF2-1: Admin Can Login and logout.

REQ-SF2-2: Add & remove sub-admins

REQ-SF2-3: Adding and removing items categories.

REQ-SF2-4: Adding new products.

REQ-SF2-5: Edit and delete product.

2.5. Other Nonfunctional Requirements

2.5.1. Performance Requirements

For making a Website it is very necessary to improve speed, accuracy & performance of website. Hope that system responses no more than 2 second or transaction rates are good and throughput are less. We apply normalization rules and the basic objective of normalization is to reduce redundancy which means that information is to be stored only once. Storing

information several times leads to wastage of storage space and increase in the total size of the data stored.

2.5.2. Safety Requirements

If there is extensive damage to a wide portion of the database due to catastrophic failure, such as a disk crash, the recovery method restores a past copy of the database that was backed up to archival storage and reconstructs a more current state by reapplying or redoing the operations of committed transactions from the backed up log, up to the time of failure.

2.5.3. Security Requirements

Security must be ensure that a programmer or a hacker not break you password. Security systems need database storage just like many other applications. However, the special requirements of the security market mean that vendors must choose their database partner carefully.

2.5.4. Software Quality Attributes

Software must be easy to maintain.it must be reliable and reusable and easy to use and its interface are easy to understand and easy to use all menus be easy. Components or modules are designed, as well as factors such as coding style and variable naming.

2.5.5. Business Rules

We applying different marketing stagey to market out product and business from this.

Chapter 3

Use Case Analysis

Chapter 3: System Analysis

The purpose of creating Use Case to describe the whole scenario how it is going to work. Describing actors and their purposes. How users, our clients and admin will login, make registration, add post, search things and buy and sale things. User can edit our post and our profile information and user can delete our order within the time limits. User also can manage our account.

3.1. Use Case Model

According to this use-case user can login to our site user can add posts related jobs, vehicles, real estate and books or any type of documentation. User can search any type of jobs, vehicles, real estate and documentation. User can apply for jobs, buy vehicles, buy real estate and download documents free and premium. User can logout our account also cancel order and manage our account. Admin can login and logout to our website. Admin can manage website and manage our account. Our clients are those companies who registered in our website. Client's also login, logout, manage account, add post delete post and edit post and also search things. Agents can login and logout add post search post manage account and also cancel account. If anyone wants to search anything then it will not need to compulsory to login to this web application. If anyone can add post delete post etc. Then it will compulsory to login.

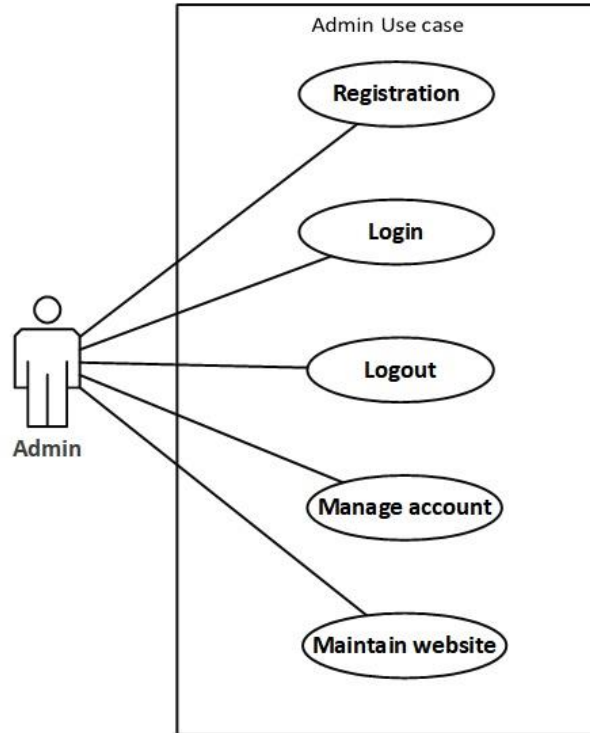


Figure 3.1.0 Admin Usecase

A admin can register our account, he can login or logout also manage account and maintain website.

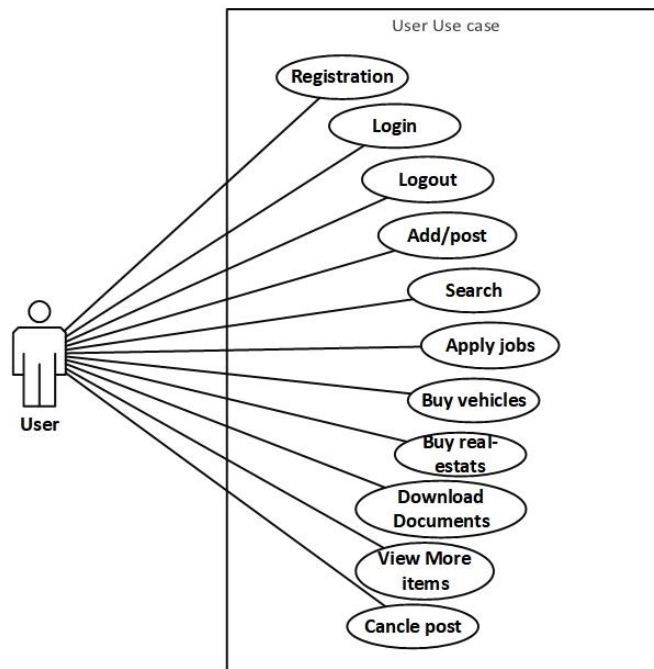


Figure 3.1.1 User Usecase

This use case define the functionality of users, that user can register our account and login to site. They upload post for getting jobs or search different items for view and buy, they can apply for jobs or download document and also can logout from this website.

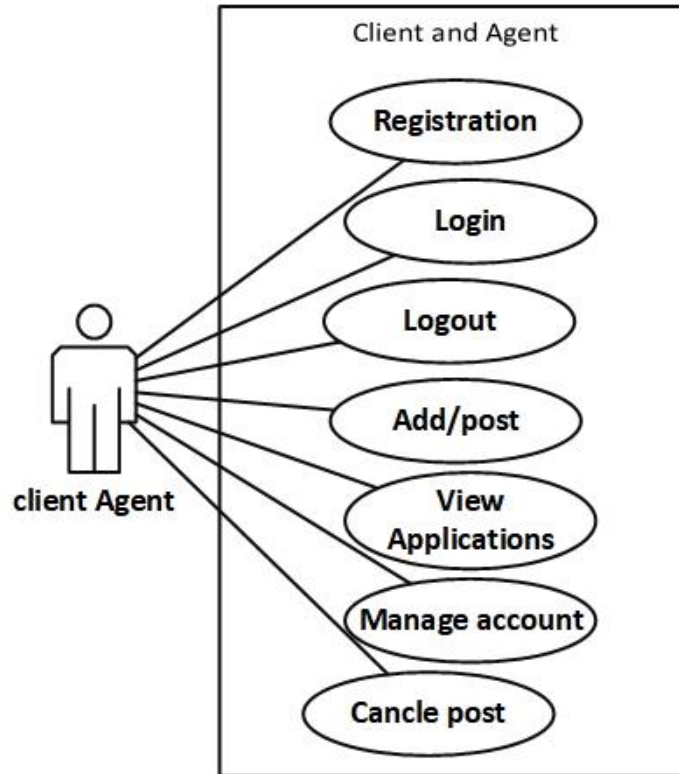


Figure 3.1.2 Clients and Agents

The use case show the functionality of agents and clients that they can register account or login to website or add post and items. They can view applications of different users and also cancel post or manage our account and logout to website.

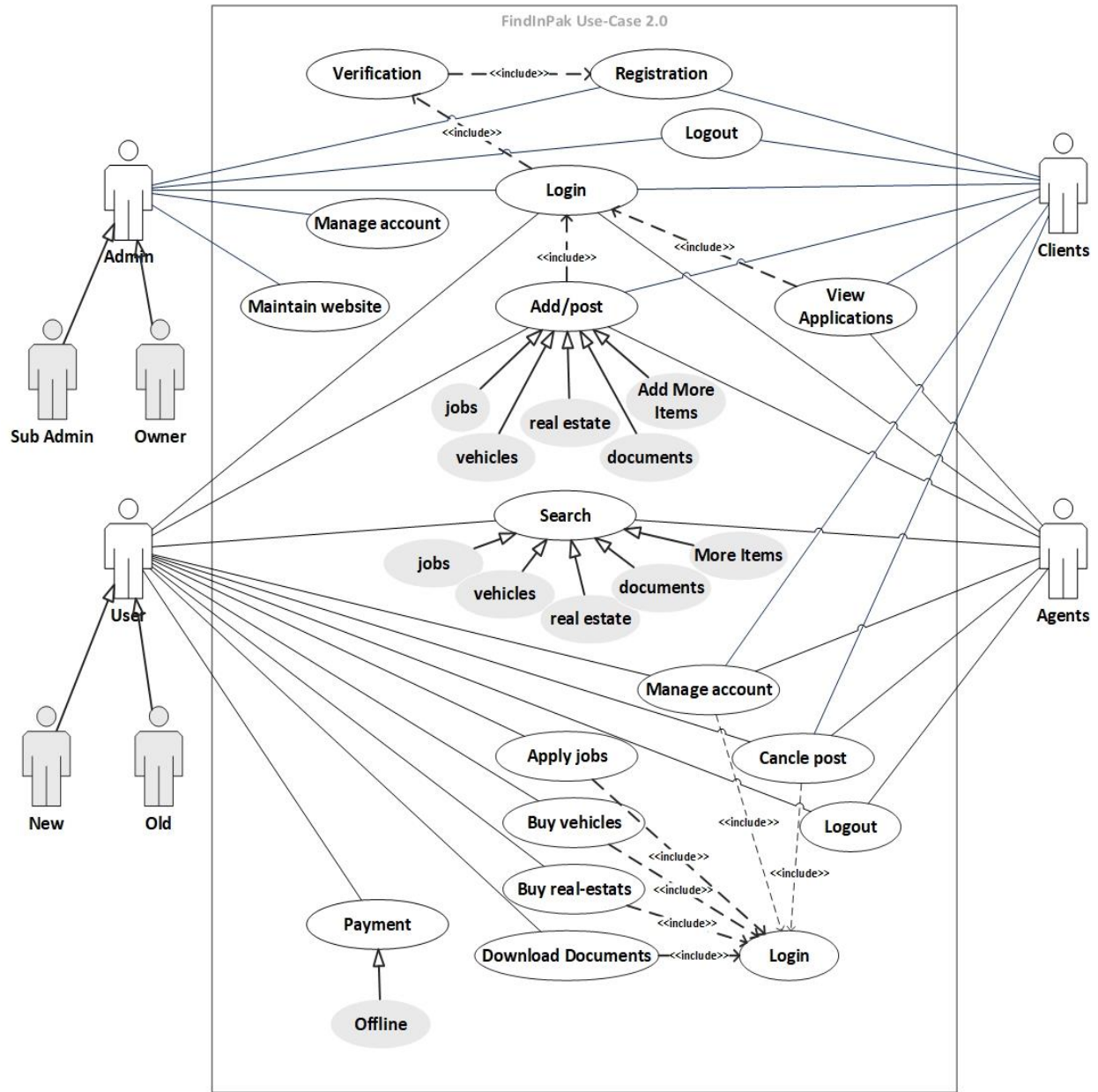


Figure 3.1.3 whole system usecase

3.2. Fully Dressed Use Cases

Fully dressed use cases show more detail and are structured, they dig deeper. According to figure 3.1.3 we write the fully dressed use case for FindInPak system.

Table 3.2.0: Login

Use Case:	Login
Actors:	Admin, User, Clients, Agent
Type:	Primary and essential
Description:	Initiated when a user attempts an action that is restricted. The user is then Prompted to enter in their username and password in order to proceed.
Includes:	Verification, Registration
Extends:	None
Cross Ref:	
Use-Cases:	None

Table 3.2.1: Logout

Use Case:	Logout
Actors:	Admin, User, Clients, Agent
Type:	Primary and essential
Description:	The customer or manager will have the option to logout form this website.
Includes:	None
Extends:	None
Cross Ref:	

Use-Cases:	User must have completed the Log In use case.
-------------------	---

Table 3.2.2: Add Post

Use Case:	Add Post
Actors:	Users, Clients, Agents
Type:	Primary and Essential
Description:	All actors can add post it may be a jobs, vehicles, real estate and books or all types of documents and search papers etc.
Includes:	Login
Extends:	None
Cross Ref:	
Use-Cases:	User must be login to add post.

Table 3.2.3: Search items

Use Case:	Search Items
Actors:	Users, Clients, Agents
Type:	Primary and Essential
Description:	All actors can search jobs, vehicles, real estate and books or all types of documents and search papers etc.
Includes:	None
Extends:	None

Cross Ref:	
Use-Cases:	Not login compulsory.

Table 3.2.4: Apply Jobs

Use Case:	Apply Jobs
Actors:	Users
Type:	Primary and Essential
Description:	User can apply for a jobs butt it compulsory to login.
Includes:	Login
Extends:	None
Cross Ref:	
Use-Cases:	User must be login to add post.

Table 3.2.5: Buy Vehicles

Use Case:	Buy Vehicles
Actors:	Users
Type:	Primary and Essential
Description:	User can Buy a Vehicles butt it compulsory to login.
Includes:	Login
Extends:	None

Cross Ref:	
Use-Cases:	User must be login to add post.

Table 3.2.6: Buy Real Estate

Use Case:	Buy Real Estate
Actors:	Users
Type:	Primary and Essential
Description:	User can Buy real estate butt it compulsory to login.
Includes:	Login
Extends:	None
Cross Ref:	
Use-Cases:	User must be login to add post.

Table 3.2.7: Download Documentation

Use Case:	Download Documentation
Actors:	Users
Type:	Primary and Essential
Description:	User can download files, research papers and all types of books and documentation free and premium.
Includes:	Login

Extends:	None
Cross Ref:	
Use-Cases:	User must be login to add post.

Table 3.2.8: Manage Account

Use Case:	Manage Account
Actors:	Users, Agents, Admin, Clients
Type:	Primary and Essential
Description:	All actors can easily manage our account.
Includes:	Login
Extends:	None
Cross Ref:	
Use-Cases:	User must be login to add post.

Table 3.2.9: Cancel Post

Use Case:	Cancel post
Actors:	User, Agents, Clients
Type:	Primary and Essential
Description:	If user, clients and agent can upload any post then it will write to delete or edit our post.

Includes:	Login
Extends:	None
Cross Ref:	
Use-Cases:	User must be login to add post.

Table 3.2.10: Maintain website

Use Case:	Maintain Website
Actors:	Admin
Type:	Primary and Essential
Description:	Admin can maintain the whole website block unblock account etc.
Includes:	Login
Extends:	None
Cross Ref:	
Use-Cases:	User must be login to add post.

Table 3.2.11: View Application

Use Case:	View Applications
Actors:	Agents, Clients
Type:	Primary and Essential
Description:	If anyone user can apply for job and tag to our agents and clients then

	our agents and client are able to see these applications.
Includes:	Login
Extends:	None
Cross Ref:	
Use-Cases:	User must be login to add post.

Table 3.2.12: Manage Account

Use Case:	Manage Account
Actors:	Users, Agents, Admin, Clients
Type:	Primary and Essential
Description:	All actors can easily Register in this website only main admin can make the sub admin.
Includes:	None
Extends:	None
Cross Ref:	
Use-Cases:	Login not compulsory

Table 3.2.13 : Verification

Use Case:	Verification
Actors:	Agents, Clients, Admin, Users

Type:	Primary and Essential
Description:	If any user, client agent are not registered and try to login the his information verified in our database.
Includes:	Registration
Extends:	None
Cross Ref:	
Use-Cases:	Login not compulsory.

Table 3.2.14: Payment

Use Case:	Payment
Actors:	Users
Type:	Primary and Essential
Description:	Payment method are online and offline
Includes:	Login
Extends:	None
Use-Cases:	Login compulsory.

Chapter 4

System Design

Chapter 4: System Design

We are designing the whole system conceptually, just to clear out how our system will look like. We have made different diagrams, different designs, Model, ER- Diagram to see how our system will work& how we will manage it.

4.1. Architecture Diagram

It is very simple & clear in the diagram that n number of users can simply login to FindInPak web page through an internet connection and find any type of data related to the jobs, vehicles, real estates or any types of books to our database server. User may be admin, customer, clients and Agents.

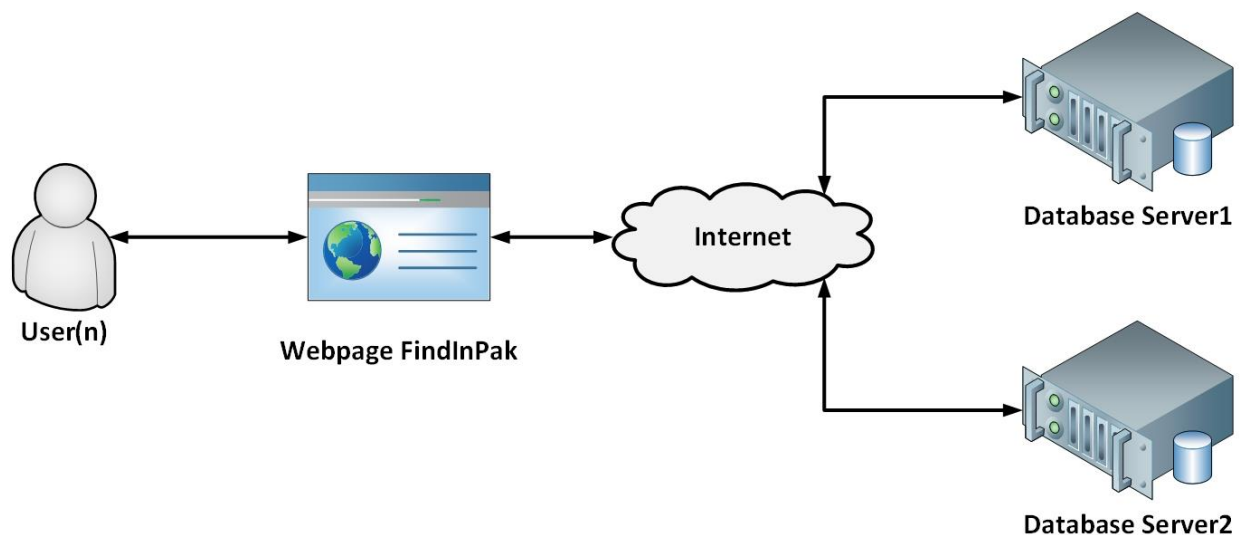


Figure 4.1 Architecture Diagram

4.2. Domain Model

In this little clearer that how a system are work. User have two options that once he can upload post any product and then apply for sale. And the second option is User can see items or buy items. Payment method can be offline and online. Clients and agents age upload post for sale and also see user post and hire them.

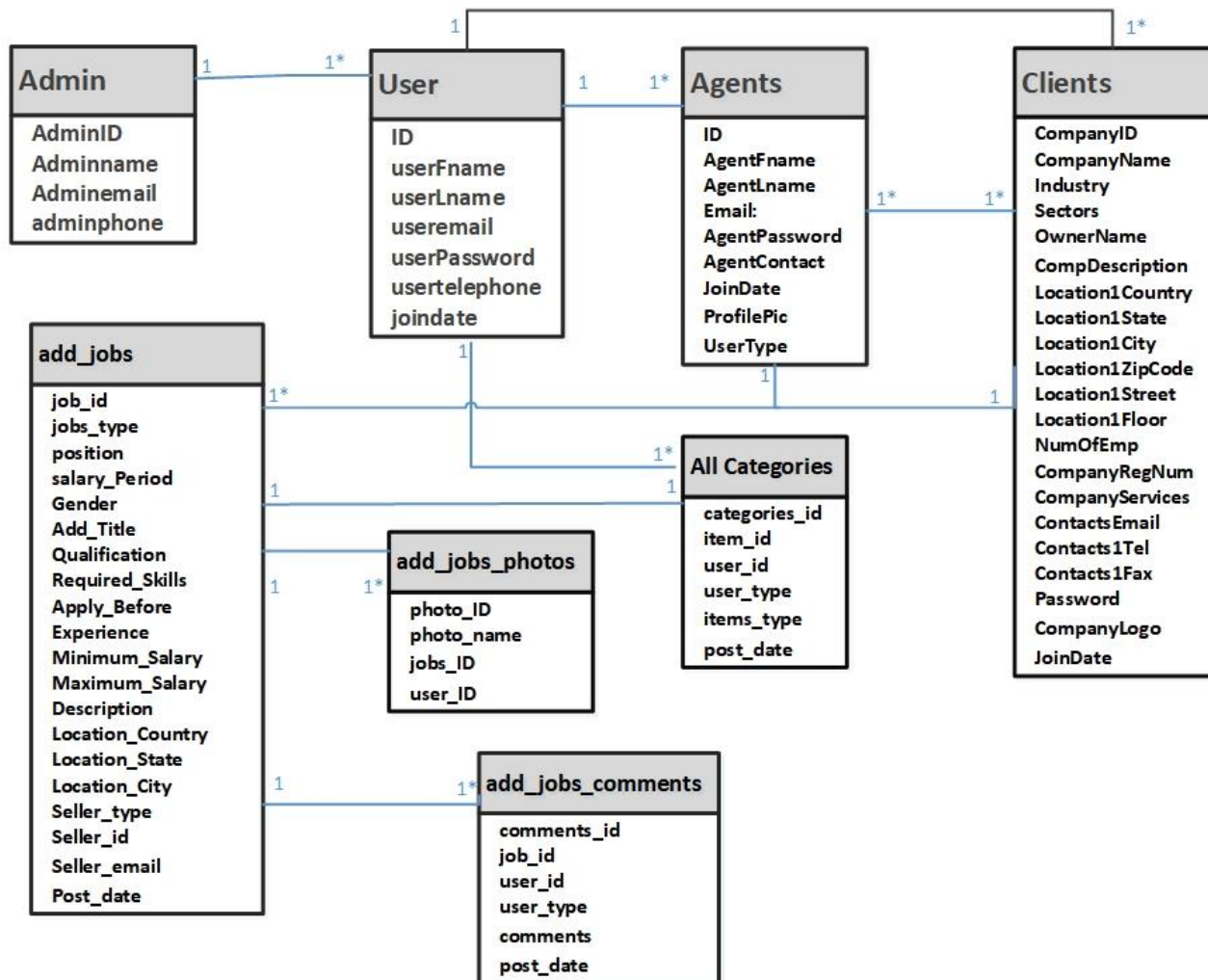


Figure 4.2 Domain Model

4.3. Entity Relationship Diagram with data dictionary

ERD explain the simple all the processes that we perform in FindInPak. A user can register our account whit attribute user_id (p.k), user name, phone, user email and user address. The user attribute are user_id (p.k), user name, phone number, user email and address of the user. User can login with attribute username and password.1 to 1 and one too many relationship are used in. Then user relationship link show between clients and agent. The clients attribute are

Company_id, name, contact, logo and number of employs. Clients can register our account with client_id, name, phone and Add Post with attribute documents, vehicles, real estate and documents. In this we use multi_attribute for each attribute. The agent attribute are agent_id, agent_name, phone and role. Agent can register search from our account with different attribute. User also can buy different product and the payment attribute are offline and online.

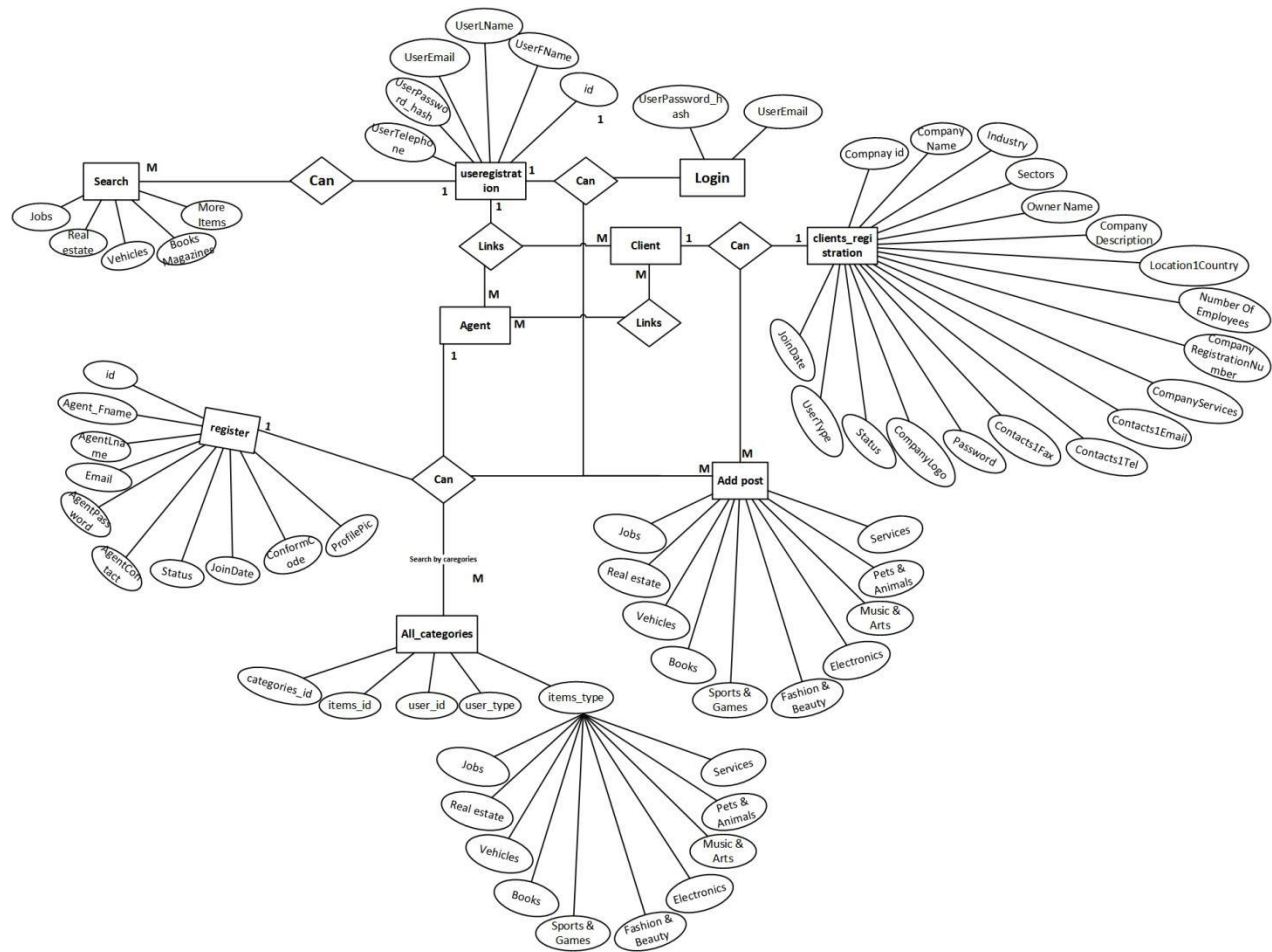


Figure 4.3 Entity Relationship Diagram

4.4. Class Diagram

Class diagram simply explains how our system will work. Admin, user, clients and agents are login with his username and password And they are connected with each other with one to one and one to many relationship. We make association between user and product if user not exist then who seen the product. And we make association between order and payment for example

if payment not completed then order completed. We have two type of payment are online and offline. User can pay online payment with his credit card and buy product and also have offline that user order product and pay cash on delivery.

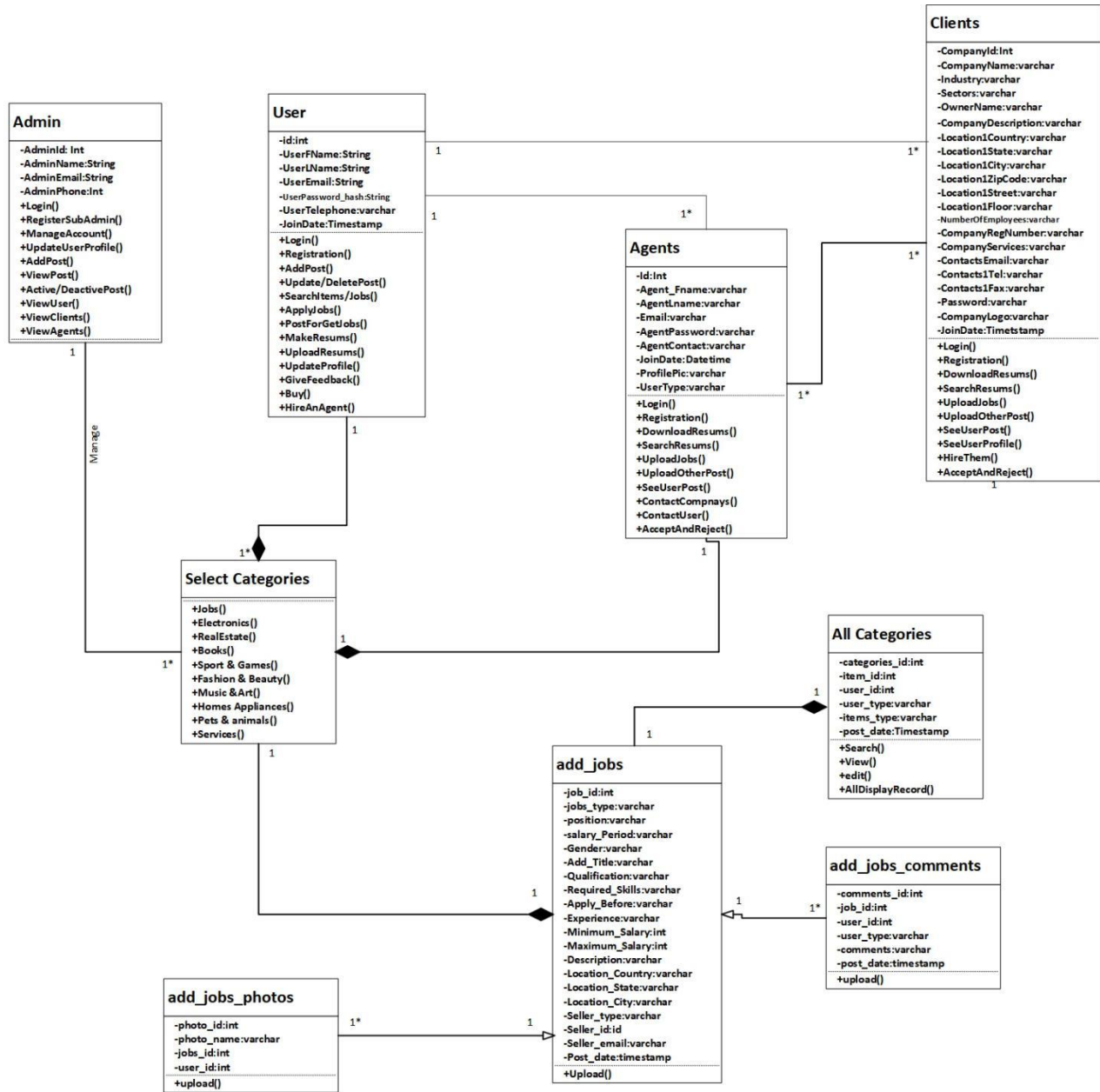


Figure 4.4 Class Diagram

4.5. Sequence / Collaboration Diagram

Sequence diagram is a type of an interaction diagram. We use Sequence diagram in FindInPak to interaction how to user, client and admin are interact with our website. Customer and clients send method for registration and the web portal send success message against the registration request and login request. The diagram show that after login and registration process user and select function for add post and web portal send message to post successfully upload. After that user can send update our profile upload our CV, Contact to clients and order product. And the clients are download user data and see user post and hire for a job. Admin can manage the whole account. After this payment method start and then User and Clients are going to apply logout method and system show message the successfully logout.

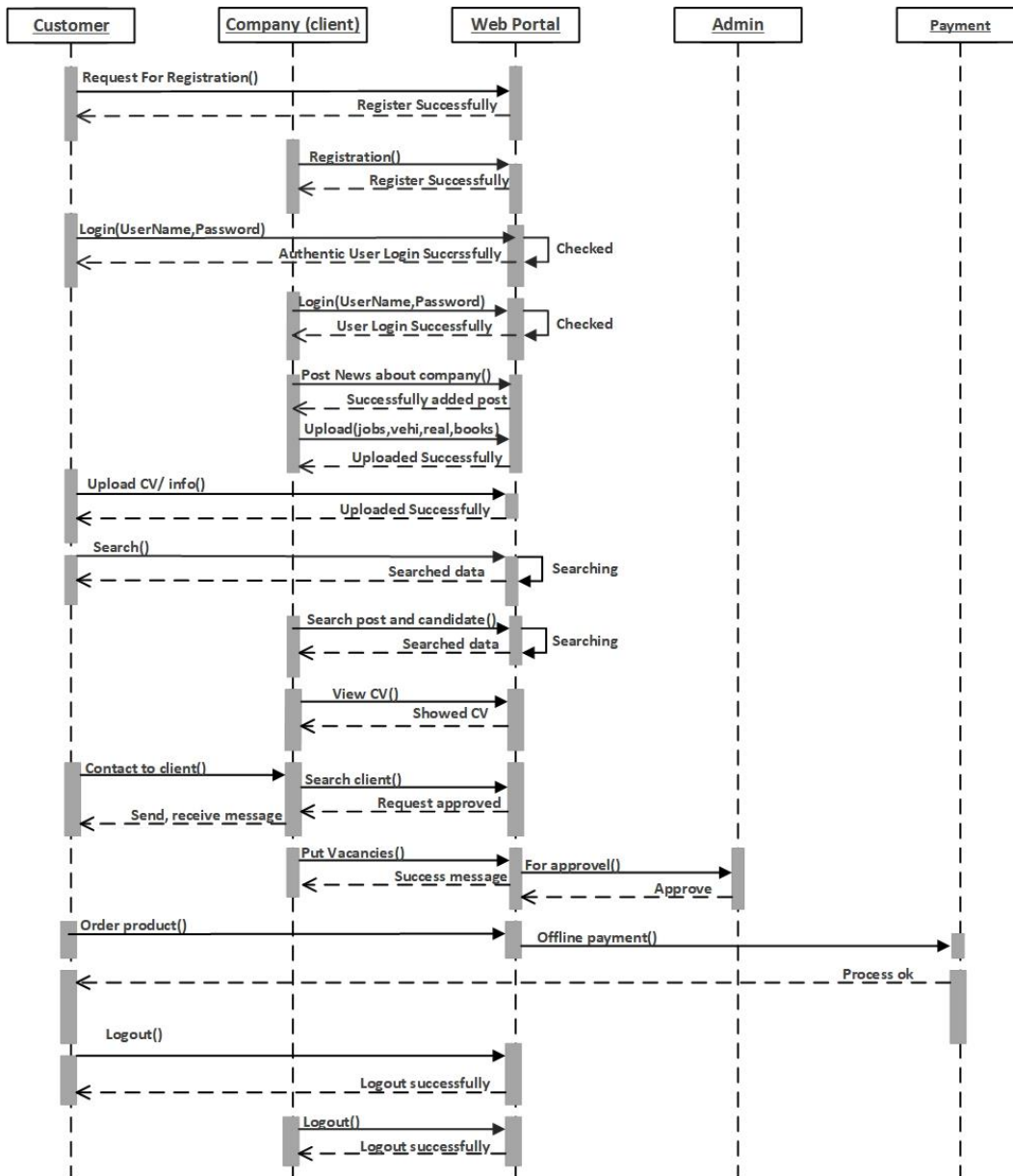


Figure 4.5 Sequence Diagram

4.6. Operation contracts

4.6.1. Authentication

Operation#1: Login (username, password)

Cross reference: Use Cases: login

Pre-Conditions: valid login page.

Post-Conditions: User must be valid for login.
Username and password compulsory to login.

Operation#2: Registration (R-id, name, password, phone, email)

Cross reference: Use Cases: Registration process

Pre-Conditions: Register new user

Post-Conditions: R-id is created (instance creation)
R-id was associated with current registration process.
R-id was associated with a username, user password and other current user detail.

4.6.2. Add New Post

Operation: AddNewPost (PostId, PostName)

Cross reference: Use Cases: Add Post process

Pre-Conditions: Valid Account

Post-Conditions: AddNewPost ItemSale instance isale was created successfully (instance creation)
Isale with associated with current sale (association formed)
Isale became quantity (attribute modification).
Isale was associated with a productDescription, based on Isale match (association formed).

4.6.3. End Post

Operation:	EndPost (PostId, PostName)
Cross reference:	Use Cases: Add Post process
Pre-Conditions:	There is an under underway and items has been posted
Post-Conditions:	post complete become true.(attribute modification)

4.6.4. Make Payment

Operation:	MakePayment (amount:Number)
Cross reference:	Use Cases: Process Payment (Buy item)
Pre-Conditions:	The sale underway and all items have been entered
Post-Conditions:	A payment instance p was created.(instance creation)
	Set amount p (attribute modification)
	P was associated with current sale (association form)
	Complete sale (association form)

4.7. Activity Diagram

It is very simple & clear in the diagram that after open the website we have two option that one user can go for search and other user can go for add post, search candidate and view application. If we select the first one that after search item when user try to contact the clients or agents and other customer then user are need to login. If user are already login then it move to success dealing otherwise it automatically send to login page if user have FindInPak account they simply login otherwise first he can register our account. After login successfully move to buy items (real estate, vehicles and books or notes). Payment method are online and offline and then shipping order and then go for logout or end.

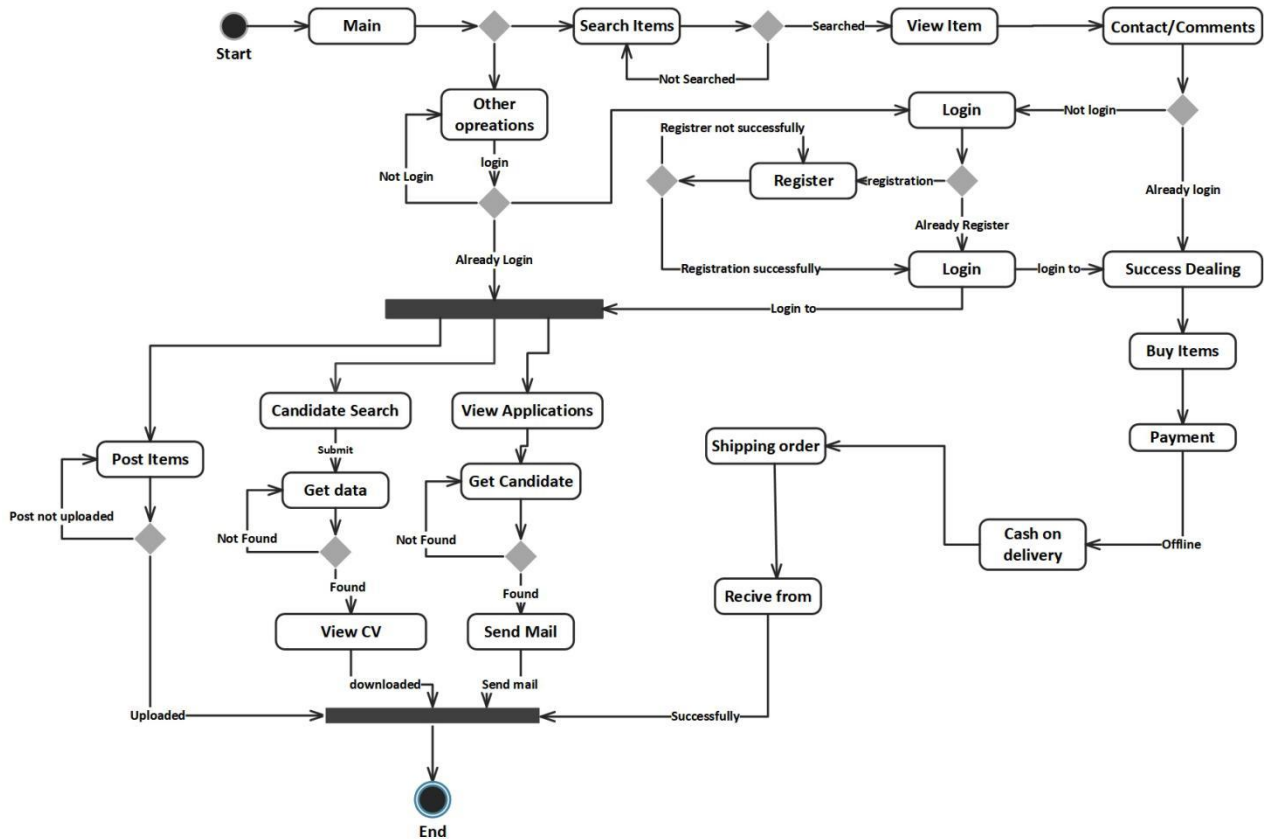


Figure 4.7 Activity Diagram

4.8. State Transition Diagram

The state diagram simply show that if user Buy an item then he simply registration then login if username and pass not exist then portal demand for re enter username and pass. Then search item if search item not find use can easily search again and the view product and buy product.

Clients apply same process for login and registration after the clients(company) can search candidate, view application of searched candidate and also get candidate for jobs using send email. Admin can view feedback manage account after the registration and login process and then (final state)logout.

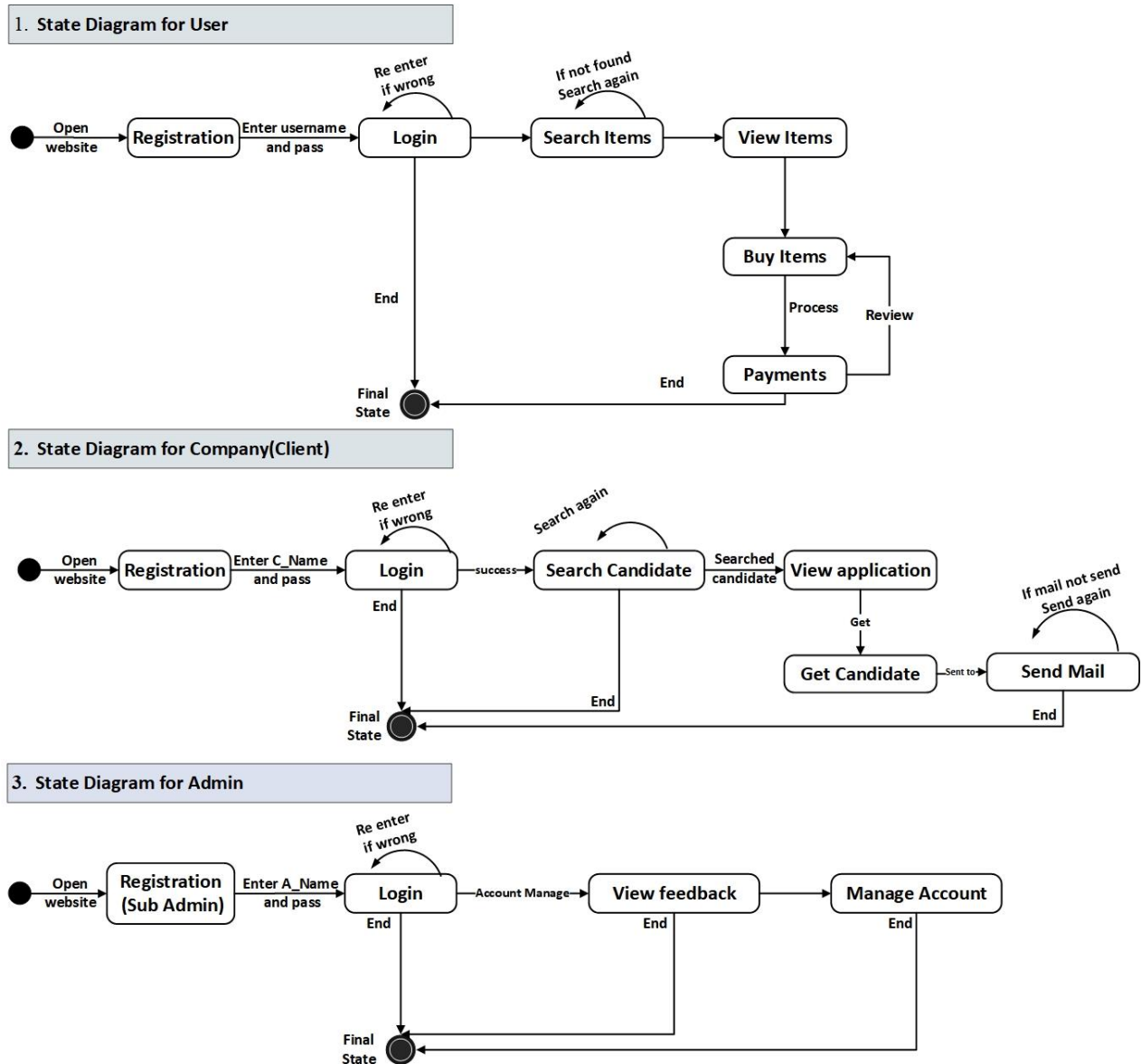


Figure 4.8 State Diagram

4.9. Component Diagram

Component diagram give physical view of the whole system. Means that how different component use each other. It not describe the functionally butt it also describe the component of the system. FindInPak our main component that are connected with all sub components

Using dependency. We use the interface between sub components and persistence and security for access control and encryption. These components connected to the database with db. Connector through interface.

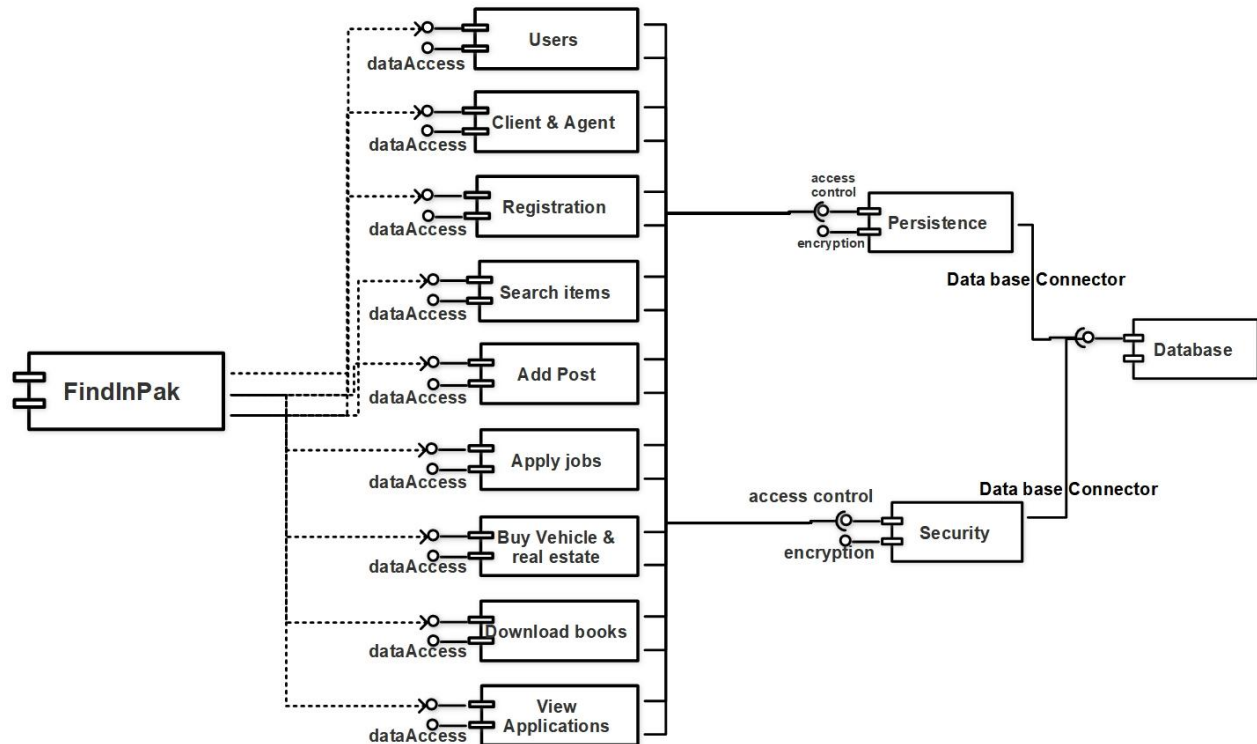


Figure 4.9 Component Diagram

4.10. Deployment Diagram

Our website FindInPak is stored in a web-server, all other data of users & our products/items are stored in our database server, user can search items, add post, cancel post and any other operation perform in web browser HTML5 page with connected the HTTP network server.

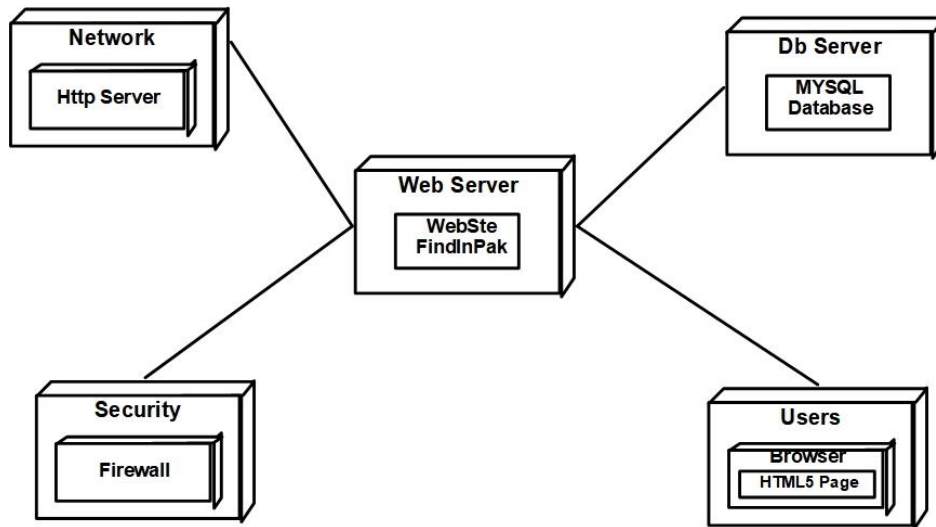


Figure 4.10 Deployment Diagram

4.11. Data Flow diagram [only if structured approach is used - Level 0 and 1]

Data flow diagram used to show that how information pass from one process to another process these all things we get from DFD. In DFD we have different External Entity, Data flow, Process and data store. In FindInPak we use Data Flow Diagram for two levels are level0 and level1.

Level 0

In Level zero we make a single process diagram (0.0) with four external entities and different data flow. Admin, users, companies and agents our external entities who wants to communicate with system or process.

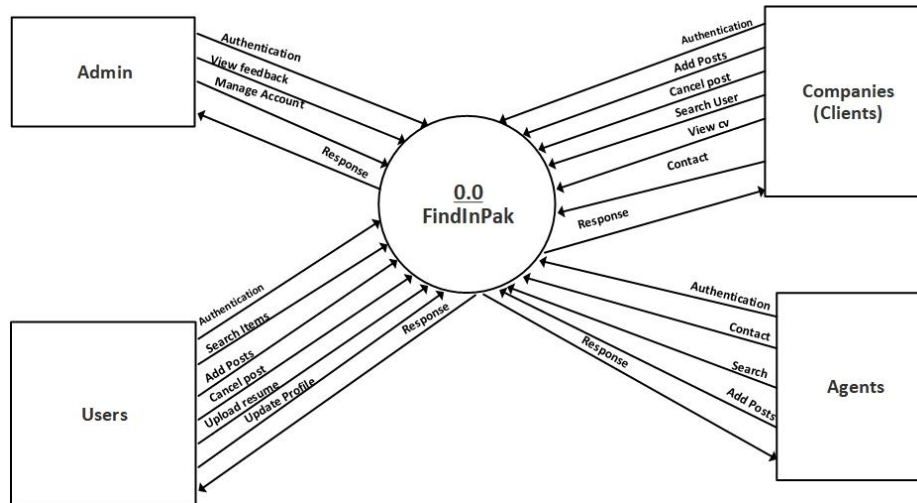


Figure 4.11.1 Data Flow Diagram (Level 0)

Level 1

In **Authentication** process if Any user (**Admin, user, client and agent**) wants to login or registration our account then **Authentication process** send a request to user auth database after response from database process will login or cancel request. **Add_post(items)** process store data into **Items&product_info db**.Users can add post for getting jobs and tags to company. Clients And agents are also upload our post into **Add_post** process for buy and sale or upload jobs.They also cancel this post user can search, order and send payment offline and online then system generate a receipt.you can give feedback and the feedback send to Admin. The admin response them according to feedback

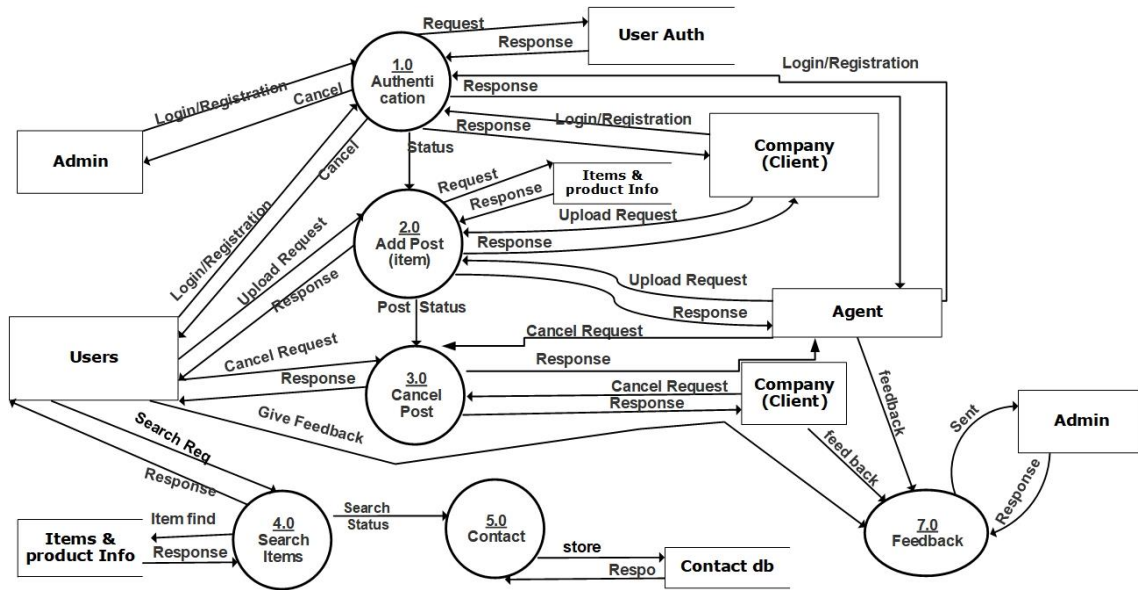


Figure 4.11.2 Data Flow Diagram (Level 1)

Chapter 5

Implementation

Chapter 5: Implementation

After defining the whole System design we are going to see how we will implement it, which types of tools & techniques that we are using to make it, which web servers are required for our website & which type of standards we should follow while coding.

5.1. Important Flow Control/Pseudo codes

Diagram shows the whole process of our working system in different steps. If any user want to app post for jobs and apply for jobs or buy different items then user will going to login and make registration. Then they will apply for jobs and buy product. Same like that Clients and agent if not login they can't upload post and hire for jobs. On the other hand admin can manage the account and add sub admin or manage feedback then if the process is done user can logout.

5.2. Components, Libraries, Web Services and stubs

Web Servers:

- Apache HTTP Server/ Internet information server

Components:

- Domain name: findinpak.pk or findinpakistan.pk depends upon which one is available.

5.3. Deployment Environment

In Deployment environment the Apache provide basic features to run HTTP servers in a replicated manner. Our website findinpak.pk will be hosted on different web-servers.

5.4. Tools and Techniques

Following tools will be used for the development.

- Wamp/Xampp (for Php and Database)

- Brackets/Notepad++/Adobe dreamweaver (for building website)
- HTML/CSS + Bootstrap (for Front End Designing)

5.5. Best Practices / Coding Standards

- ✓ Fast loading website.
- ✓ Color combination good.
- ✓ Email and social media marketing
- ✓ Strong security
- ✓ Automatically image slider
- ✓ Alert text blinking
- ✓ Add a video
- ✓ Display our contact number
- ✓ Live chat on website
- ✓ Use a detailed work definition document
- ✓ Create a detailed work plan
- ✓ Document everything
- ✓ Ask for feedback
- ✓ Manage new agreements
- ✓ Hold a wrap-up meeting

5.6. Version Control

Name	Date	Reason For Changes	Version
------	------	--------------------	---------

MudassarRasool			
NoumanGhuman	11-12-18	Initial Version	1.0
AwaisAnwar			

Chapter 6

Testing and Evaluation

Chapter 6: Testing and Evaluation

In this chapter testing of all units and individually will done and if each unit or module is working correctly then integration testing will be done to check the effect when two or more than two modules are working with each other. After completion of unit and integration than performance and stress testing will be done.

6.1. Use Case Testing

Test Suite ID	TS001
Test Case ID	TC001
Test Case Summary	To verify that by clicking Signup button username, password, Email, phone# and address store in customer detail in database.
Related Requirement	RS001: User should able to Sign up.
Prerequisites	No
Test Procedure	<ol style="list-style-type: none"> 1. Select fields in Signup form. 2. Enter user data in fields. 3. Click Signup button.
Test Data	Valid username: Nouman, NOUMAN Invalid username: 12nouman, .nouman, nouman%^3 Valid password: 123Abc@5, Abc567\$%9 Invalid password: 1_2nouman, _nouman12 Valid email: nouman@gmail.com, qayyumali@yahoo.com Invalid email: qayyum.com, nouman@yahoo Valid phone# :03123456578

	Invalid phone: @56rfgf7999, 2wstyyA
Expected Result	<ol style="list-style-type: none"> 1. If username, password, email and phone# are valid then store user data by clicking signup button in rener detail. 2. If given inputs are invalid then display error message. 3. If fields are empty then display then show warning message.
Actual Result	<ol style="list-style-type: none"> 1. If name is valid, the result is as expected. 2. If name is not valid then invalid message displayed. 3. If fields are empty then warning message displayed.
Status	Pass
Remarks	This test case is simple and easy.
Created By	Nouman qayyum
Date of Creation	11/06/19
Executed By	Nouman qayyum
Date of Execution	11/06/19
Text Environment	OS: Window 10 Browser: Google Chrome

6.2. Equivalence partitioning

Test Suite ID	TS001
Test Case ID	TC002
Testcase Summary	To verify Authentication or Login.
Related Requirement	RS002: User should able to Login.
Prerequisites	User should Signup first.
Test Procedure	<ol style="list-style-type: none"> 1. Select Username field and enter username. 2. Select Password field and enter password. 3. Click Login button.
Test Data	Valid username: nouman, NOUMAN Invalid username: 12nouman, ./nouman, nouman%^3 Valid password: 123Aabc@, abMc567\$% Invalid password: 1_2nouman, _nouman12
Expected Result	<ol style="list-style-type: none"> 1. If username and password are valid then clicking the Login button user successfully login. 2. If username and password are invalid then clicking the Login button invalid message display. 3. If fields are empty then display warning message
Actual Result	<ol style="list-style-type: none"> 1. If both fields are valid, the result is as expected. 2. If both fields are not valid then invalid message displayed. 3. If fields are empty then warning message displayed.

Status	Pass
Remarks	This test case is simple and easy.
Created By	Nouman qayyum
Date of Creation	11/06/19
Executed By	Nouman qayyum
Date of Execution	11/06/19
Text Environment	OS: Window 7 Browser: Google Chrome

Derived Equivalence Classes

1. User name is alphabetic. (valid)
2. User name is not alphabetic. (invalid)
3. Password is equal to 8 or greater than 8 characters in length. (valid)
4. Password is 2 to 15 characters in length. (invalid)
5. Password include one uppercase letter & one lowercase letter. (valid)
6. Password include ‘_’. (invalid)
7. Email without ‘@’ and ‘.com’. (invalid)
8. Email with ‘@’ and ‘.com’. (valid)
9. Phone# only be number. (valid)
10. Phone# with alphabetic. (invalid)
11. City name is alphabetic. (valid)
12. City name with numeric values. (invalid)
13. Price only be numeric. (valid)
14. Price is alphabetic. (invalid)

15. Search product with alphabetic. (valid)
16. Search product with special character (/, %, ^, #, @). (invalid)
17. No search product name entered. (invalid)
18. Brand name alphabetic (valid)
19. Brand name with special character. (invalid)
20. Empty field (invalid)

Black Box Test Cases based on the Equivalence Classes Above.

Sr.	Test Data	Expected Outcome	Classes Covered
1	nouman, qayyum1	T	1
2	ss, 11233	T	2
3	123Ea84747, 12ABc4%^	T	3,5
4	_1234567, AV_we333	T	4,6
5	nouman @gmail.com	T	7
6	nouman.com, nouman@qayyum	T	8
7	01234567890	T	9,14
8	032222XXX12),1234	T	10
9	Lahore	T	11

10	Lahore1	T	12
11	12000, 10000	T	13
12	Rs.1200, 12\$	T	14

6.3. Boundary value analysis

Sr.		Partition 1	Partition 2	Partition 3
1	Password	Less than 8 Character	1 – 8 character	9 – 12
2	Price	Less than 0	Greater than 1	Less than
3	Phone	<=0	1 - 11	>=12

6.4. Data flow testing

Read url

1. \$url = 'http://localhost/Rent/Rent_API/Renter/create.php';
2. \$ch = curl_init(\$url);
3. function getUserIpAddr(){
4. if(!empty(\$_SERVER['HTTP_CLIENT_IP'])){
5. \$ip = \$_SERVER['HTTP_CLIENT_IP'];

```
6. }elseif(!empty($_SERVER['HTTP_X_FORWARDED_FOR'])){  
  
7. $ip = $_SERVER['HTTP_X_FORWARDED_FOR'];  
  
8. }else{  
  
9. $ip = $_SERVER['REMOTE_ADDR'];  
  
10. }  
  
11. return $ip;  
  
12. }  
  
13. $ip_address = getUserIpAddr();  
  
14. $jsonData = array(  
  
15. 'name' => $name,  
  
16. 'city' => $city,  
  
17. 'email' => $email,  
  
18. 'password' => $password,  
  
19. 'address' => $address,  
  
20. 'phone' => $phone,  
  
21. 'ip_address' => $ip_address,  
  
22. 'image_num' => $images_db
```

23.);

24. \$jsonDataEncoded = json_encode(\$jsonData);

25. curl_setopt(\$ch, CURLOPT_POST, 1);

26. curl_setopt(\$ch, CURLOPT_POSTFIELDS, \$jsonDataEncoded);

27. curl_setopt(\$ch, CURLOPT_HTTPHEADER, array('Content-Type: application/json'));

28. \$result = curl_exec(\$ch);

Associations	All p-use	All c-use
(1,2,\$url)		
(2,25,\$ch)		
(2,26,\$ch)		
(2,27,\$ch)		
(2,28,\$ch)		
(4,(5,T),\$ _SERVER)	*	
(4,(7,F), \$ _SERVER)	*	
(5,11,\$ip)		
(7,11,\$ip)		

(13,21,\$ip_address)		
(14,24,\$jsonData)		

Read \$url

1. \$url = 'http://localhost/Rent/Rent_API/Renter/create.php';
2. \$ch = curl_init(\$url);
3. (1,2,\$url)

Read \$ch

1. \$ch = curl_init(\$url);
2. curl_setopt(\$ch, CURLOPT_POST, 1);
3. curl_setopt(\$ch, CURLOPT_POSTFIELDS, \$jsonDataEncoded);
4. curl_setopt(\$ch, CURLOPT_HTTPHEADER, array('Content-Type: application/json'));
5. \$result = curl_exec(\$ch);
6. if(\$result)
7. {
8. echo "<script>alert('Account Created successfully !');</script>";
9. }

Associations	All p-use	All c-use
---------------------	------------------	------------------

(1,2,\$ch)		
(1,3,\$ch)		
(1,4,\$ch)		
(1,5,\$ch)		*
(5,(6,T),\$_SERVER)	*	
(5,(6,F), \$_SERVER)	*	

Read \$_SERVER

1. function getUserIpAddr(){
2. if(!empty(\$_SERVER['HTTP_CLIENT_IP'])){\
3. \$ip = \$_SERVER['HTTP_CLIENT_IP'];
4. }elseif(!empty(\$_SERVER['HTTP_X_FORWARDED_FOR'])){\
5. \$ip = \$_SERVER['HTTP_X_FORWARDED_FOR'];
6. }else{\
7. \$ip = \$_SERVER['REMOTE_ADDR'];
8. }
9. return \$ip;

Associations	All p-use	All c-use
(2,3,\$_SERVER)		
(2,5, \$_SERVER)		
(2,7, \$_SERVER)		
(3,9,\$ip)		
(5,9,\$ip)		
(7,9,\$ip)		

Read \$ip_address

1. \$ip_address = getUserIpAddr();
2. 'ip_address'=> \$ip_address,

Associations	All p-use	All c-use

(1,2,\$ip_address)

Read \$jsonData

1. \$jsonData = array(
2. 'name' => \$name,
3. 'city' => \$city,
4. 'email' => \$email,
5. 'password' => \$password,
6. 'address' => \$address,

7. 'phone' => \$phone,
8. 'ip_address'=> \$ip_address,
9. 'image_num' => \$images_db
10.);
11. \$jsonDataEncoded = json_encode(\$jsonData);

Associations	All p-use	All c-use
---------------------	------------------	------------------

(1, 11, \$jsonData)

Read \$jsonDataencoded

1. \$jsonDataEncoded = json_encode(\$jsonData);
2. curl_setopt(\$ch, CURLOPT_POSTFIELDS, \$jsonDataEncoded);

Associations	All p-use	All cuse
(1, 2, \$jsonDataEncoded)		

Read \$user_data

1. \$user_data = json_decode(\$content3, false);

2. \$_SESSION["user_data"] = \$user_data

Associations	All p-use	All cuse
(1, 2, \$user_data)		

Read \$user_exist

1. \$user_exist = count(\$content3);
2. if(\$user_exist == 1)
3. {
4. \$_SESSION["user_data"] = \$user_data;
5. }

Associations	All p-use	All cuse
(1, (2,T),\$user_exist)		

(2, (2,F), \$user_exist)

Read \$city

1. \$city = new City(\$db);
2. \$stmt = \$city->search(\$keywords);

Associations	All p-use	All cuse
(1, 2,\$city)		

Read \$keyword

1. \$keywords=isset (\$_GET["s"]) ? \$_GET["s"] : "";
2. \$stmt = \$city->search(\$keywords);

6.5. Unit testing

Test Suite ID	TS002
Test Suite ID	TS002
Test Case ID	TC005
Testcase Summary	To verify that Posted Ad title, price, brand, category and detail store in ad detail in database by clicking Post Ad button.
Related Requirement	RS006: Renter should able to post ad.
Prerequisites	Renter should login.
Test Procedure	<ol style="list-style-type: none"> 4. Select fields in post ad form. 5. Enter ad data in fields. 6. Click add ad button.
Test Data	Valid Title: findinpak portal Invalid Title: hjg### , ////... _

	Invalid Brand: real estate, vehicle, documents, jobs Valid Brand: real estate, vehicle, documents, jobs Invalid Brand: real estate, vehicle, documents, jobs Valid Category: real estate, vehicle, documents, jobs Invalid Category: real estate, vehicle, documents, jobs Valid Price: 120000, 100 Invalid Price: qamm555, 00op, AAA
Expected Result	4- If title, brand, category and price are valid then store ad data by clicking add button in ad detail. 5- If given inputs are invalid then display error message. 6- If fields are empty then display warning message.
Actual Result	5. If both fields are valid, the result is as expected. 6. If both fields are not valid then invalid message displayed. 7. If fields are empty then warning message displayed.
Status	Pass
Remarks	This test case is simple and easy.
Created By	Nouman qayyum
Date of Creation	11/06/19
Executed By	Nouman qayyum
Date of Execution	11/06/19
Text Environment	OS: Window 7

Browser: Google Chrome

6.6. Integration testing

Integration ID	001
Unit ID	001, oo2
Testcase Summary	To verify that user first signup and then login.
Related Requirement	User should signup. User should login.
Prerequisites	For login user should signup.
Test Procedure	<ol style="list-style-type: none"> 1. Select fields in post ad form. 2. Enter user data in fields. 3. Click add button.
Test Data	Valid username: nouman, NOUMAN Invalid username: 12nouman, ./nouman, nouman%^3 Valid password: 123Abc@5, Abc567\$%9 Invalid password: 1_2nouman, _nouman12 Valid email: nouman12 qayyum@yahoo.com Invalid email: qayyum.com, nouman@yahoo Valid phone# :0312345657890 Invalid phone: @56rfgf7999, 2wstyyA
Expected Result	<ol style="list-style-type: none"> 1. If username, password, email and phone# are valid then store user data by clicking signup button in renter detail.

	<ol style="list-style-type: none"> 2. If given inputs are invalid then display error message. If fields are empty then display then show message. 3. If email and password are valid by clicking login button then login. 4. If given inputs are invalid then display error message. 5. If fields are empty then display then show warning message.
Actual Result	<ol style="list-style-type: none"> 1. If data is valid, the result is as expected. 2. If data is not valid then invalid message displayed. 3. If fields are empty then warning message displayed.
Status	Pass
Remarks	This test case is simple and easy.
Created By	Nouman qayyum
Date of Creation	11/06/19
Executed By	Nouman qayyum
Date of Execution	11/06/19
Text Environment	OS: Window 7

6.7. Performance testing

Performance testing is done through online 'Pingdom website'. It tells about the system response, load, speed and performance in detail.

6.8. Stress Testing

Stress testing is used to test the stability and reliability of the system. This test mainly determines the system on its robustness and error handling under extremely heavy load conditions. Most prominent use of stress testing is to determine the limit, at which the system or software or hardware breaks. Stress testing executes a system in a manner that demands resources in abnormal quantity, frequency, or volume. Special tests may be designed that generate ten interrupts per second, when one or two is the average rate input data rates may be increased by an order of magnitude to determine how input function will respond, test case that require maximum memory or other resource are executed, test case that may cause thrashing in a virtual operating system are designed. Test cases that may cause excessive hunting for disk resident data are created. Essentially, the tester attempts to break the program. Variation of stress testing is a technique called sensitivity testing.

Chapter 7

Summary, Conclusion and Future Enhancements

Chapter 7: Summary, Conclusion & Future Enhancements

7.1. Project Summary

We are making a website with a name FindInPak.com. Our idea is basically a search base portal where user can easily find different types of jobs, vehicles, real estate or any type of books notes and other classified things in a single website. The idea is very simple & unique and has not been fully implemented yet, so we are having a great chance to bring something that can be the part of our Market. Later we've thought to do it commercially, in a large scale. Our purpose is to attract most of the people from social sites from our website. In this website we have four actors that performs different functionality for example. A admin can make account of sub admin also manage the website etc, on the other hand a user can Add post for jobs and tags to different company's and agents, also user can search different items (jobs, real estate, vehicles and books or notes) and apply, buy or download (free).Moreover clients and agents upload Items and hire for jobs. Agent can find companies for customer and help to find a good jobs.

7.2. Achievements and Improvements

The biggest achievements here is that we were able to compile all we learned in four years of studying software engineering and apply it to this project. We learned software architecture design techniques, UML modeling, project management, software quality assurance, testing and much more, and were able to apply it all in this project.

The next big achievement are the things we learnt during this project. New languages, frameworks, libraries, data handling techniques and API. All that will be useful for us in our futures. We were able to connect all our products via API. Change in data in one place will result in change in all of our products.

7.3. Critical Review

It is very difficult to create the logic of the project, how to develop the project. Logic helps us to create the project on the valid requirement.

7.4. Lessons Learnt

What went well:

- Using a multiple platform language/framework for developing your application works well.
- Using an API to manage same data all across the system will be beneficial in the future

What went wrong:

- Using redux for small traditional non-complex applications will result in complicating the code for no reason.
- A project should be well managed and tasks completed within their timeframe, else they will affect the upcoming tasks.

7.5. Future Enhancements/Recommendations

As it has been already said, there is always room for further improvement. And since we plan to launch this website as our own start up, enhancements will keep coming.

The application has been built on react native, but at some point, we are definitely going to scale it up, for that we choose to use redux. The application will grow in size and complexity and handling changes in react native alone will start getting difficult. So, the best thing here

is to use redux, which is kind of a state handler. It makes it easier for us manage a highly complex application, which we believe ours is eventually going to become.

Review and rating system is going to be added as a feature that will help improve the quality of service people provide to each other since this is a C2C business

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Reference and Bibliography

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