

# **WISHBOX SHIPMENT SYSTEM**

## **A PROJECT REPORT**

*Submitted by*

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*In partial fulfillment for the award of the degree of*

## **BACHELOR OF ENGINEERING**

**In**

**Computer Engineering**

**Aditya Silver Oak Institutes of Technology, Ahmedabad**



**Gujarat Technology University, Ahmedabad**

**April, 2023**



### **Aditya Silver Oak Institute of Technology**

**352,353 A, Sarkhej Near Bhavik Publications, Opp Bhagwat Vidyapith,  
S.G.Highway, Ahmedabad, Gujarat 382481**

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Prof. A R KAZI

Internal Guide

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Head of the Department



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Name of Guide : Mr. AZIZUDDIN RAFIUDDIN KAZI

Signature of Student : \_\_\_\_\_

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The project entitled “Wishbox Shipment System” was carried out as a part of academic requirement in **Bachelor of Computer Engineering** for Aditya Silver Oak College of Engineering and Technology.

As a part of the project till now they have completed the following tasks under own companies' guidance: -

- System Requirement Specification
- System Analysis
- Diagram (UML Diagrams)
- Data Dictionary
- Coding and Testing
- Documentation

His understanding of problem context and technical knowledge for the tools used was up to the mark. During the project work, we found him sincere and the work done by him was commendable.

We wish him all the best in his future endeavors and hope that he will have a successful career.

Sincerely,

For,

**For, TECHMICRA IT SOLUTIONS**

PROPRIETOR



Techmicra IT Solutions



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This is to certify that the project report submitted along with the project entitled **Wishbox Shipment System** has been carried out by **Vishva Patel** under my guidance in partial fulfilment for the degree of Bachelor of Engineering in Computer Engineering, 8th Semester of Gujarat Technological University, Ahmadabad during the academic year 2022-23.

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- System Requirement Specification
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- Documentation

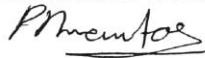
His understanding of problem context and technical knowledge for the tools used was up to the mark. During the project work, we found him sincere and the work done by him was commendable.

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### **DECLARATION**

We hereby declare that the Internship report submitted along with the Internship entitled **Python Trainee** submitted in partial fulfilment for the degree of Bachelor of Engineering in Computer to Gujarat Technological University, Ahmedabad, is a Bonafede record of original project work carried out by me at Techmicra IT Solution under the supervision of Prof. AZIZUDDIN RAFIUDDIN KAZI and that no part of this report has been directly copied from any students' reports or taken from any other source, without providing due reference.

Name of the Student

Sign of Student

- 1) Vyom Patel
- 2) Zeel Patel
- 3) Vishva Patel

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## **Acknowledgment**

I am thankful to Aditya Silver oak Institute of Technology for giving me an opportunity to develop this project. Prof. AZIZUDDIN RAFIUDDIN KAZI (Internal Guide) is the main force behind all these. The project became successful only because of their valuable suggestions, proper co-operation and complete guidance in developing this project. It was also the support from the staff members who spend their valuable time in providing us all the relevant and confidential college information which has helped us in preparing our project.

I am thankful to my guide who is the real source of inspiration and encouragement. His constant help, thoughtful suggestions and deep interest has enabled me to make this project successful. I also express my sincere thanks to our H.O.D, who allowed to use all the resources of the institute.

I am thankful to all our staff members who helped continuously and inspired me in the project.

Yours sincerely,

Vyom Patel(191200107056)

Zeel Patel(191200107057)

Vishva Patel(201200107502)

## Abstract

Wish-box is a web-based application that is designed to be deployed on internet and provide functionality to every type of user. This application is basically a web Portal designed to get interaction between different clients and Packing and Moving Companies. Wish-box is an online platform for service seekers and service providers. We have listed excellent packing moving service providers of India, household shifting & relocation services providers, car transportation, office relocation, home, shop, industrial or commercial shifting service providers of India. Our wish-box directory is having ultimate objective of providing information to its visitors about best Filler's movers and relocation companies offering its services in India. The reliable and swift wish-box services providers are the best for any kind of relocation and car transportation services. According to requirement gathered and the technologies used to realize those requirements are best utilized to achieve that functionality.

The wish-box Web Portal gives a platform through which clients and different packing and moving companies can communicate and use the services provided by this portal.

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## **Overview of the Company**

### **1.1 About Company**

Techmicra IT Solutions is a Consummate Custom Software Development company delivering splendid business IT Solutions and related services to customers across the globe. Its development services are led by our dedicated and passionate team to provide best industry practices combined with technology expertise and business domain knowledge to drive digital transformation. Its proficiency in understanding business challenges and professional competence allows us to create a better experience for our customers.

Techmicra IT Solutions have emerged and marked their presence in different continents by providing software development services to all major Industry Domains.

### **1.2 Different product/ scope of work**

After understanding the existing system and understanding the need for developing a new system different people involved in the related activities have been consulted. The data needed for the study has been collected from company records.

The computerization of this system would avoid the wrong interpretation and bad calculation of data. The system help the user to see any documents, source code, tasks, activities, team information with details at the click of a button. The record data is maintained and backed up such a way that data is not loss. The speed of the system could also increase.

### **1.3 Services**

Techmicra provides services in following field Web Development, Dedicated Development Team, Product Development, Ecommerce Development, Custom Software Development, Mobile Apps Development, Software Testing & QA, UI/UX Design.

### **1.4 Capacity of Plant**

It has a capacity of approx 45 employee.

## **Overview of different plant/unit/department/shop of the organization and Layout of the production/process being carried out in company**

### **2.1 List the technical specifications of major equipment used in each department.**

#### **Backend**

- Python

#### **Frontend**

- Javascript
- HTML
- CSS

#### **Database**

- Microsoft SQL Server
- MySQL
- SQLite
- mongoDB
- GIT

#### **Clouds & DevOps**

- AWS
- GoogleCloud

#### **Mobile**

- IOS
- Android

## 2.2 Prepare schematic layout which shows the sequence of operation for manufacturing of end product.

The production is carried out in following steps

1. Planning
2. Analysis
3. Design
4. Implementation
5. Testing and Integration
6. Maintenance

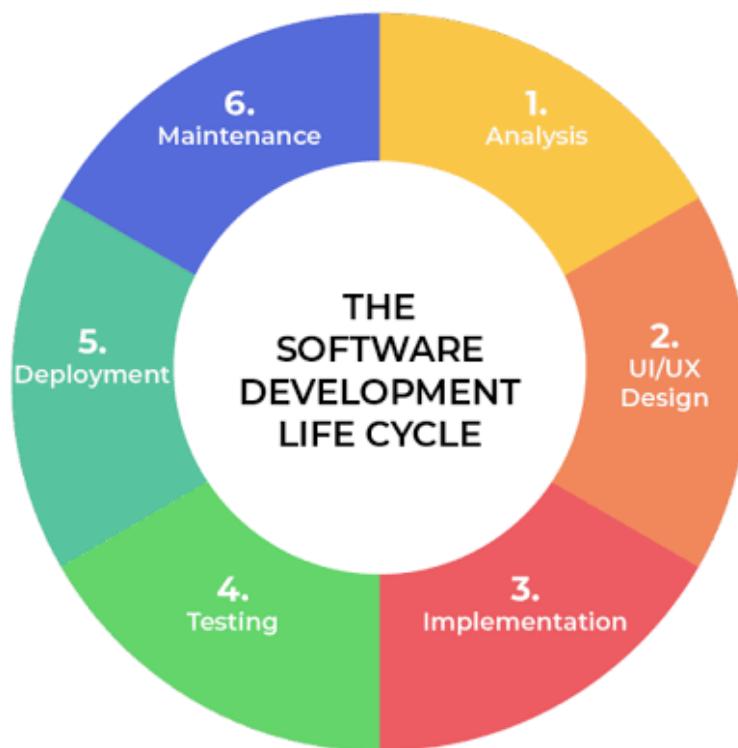


Figure 2.2.1 SDLC

## **2.3 Explain in details about each stage of production.**

### **1) Requirement Gathering and Analysis**

We have collected all the information regarding project. Once requirement gathering is done, an analysis is done to check the feasibility of the development of a product. Once the requirement is clearly understood, the SRS (Software Requirement Specification) document is created. This document should be thoroughly understood by the developers and also be reviewed by the customer.

### **2) Design**

In this phase, the requirement gathered in the SRS document is used as an input and software architecture that is used for implementing system development is derived. We have design all the public pages like homepage, FAQ Page, contact us page, about us page, login page, signup page etc through HTML, CSS, JavaScript.

### **3) Implementing or Coding**

Implementation/Coding started according to the requirement. The Software design is translated into source code. All the components of the software are implemented in this phase. Php, jQuery etc. is used for implementation. We used MVC Structure to for implementation.

### **4) Testing**

Testing starts once the coding is complete and the modules are released for testing. In this phase, the developed software is tested thoroughly and any defects found are assigned back to get them fixed. Testers refer SRS document to make sure that the software is as per the customer's standard.

### **5) Deployment**

Once the product is tested, it is deployed in the production environment or first [UAT \(User Acceptance testing\)](#) is done depending on the customer expectation.

## 6) Maintenance

After the deployment of a product on the production environment, maintenance of the product i.e., if any issue comes up and needs to be fixed or any enhancement is to be done is taken care by the developers.

## Introduction to Project

### 3.1 Project Summary

This project will include fully functional software which will enhance the working of any WishBox company as and when deployed to the workplace. The project will have a Website which will include any kind of question asked by the user or any official at the workplace and there will be a database which will be there to satisfy the question thrown.

WishBox is a service provider offers end to end packing and shifting services which includes dissembling and packing of goods (Furniture, Home and kitchen appliances, etc), loading, transportation with insurance, unloading, un-packing and re-arranging. This organization is built on the best principles of safety, integrity and reliability.

- **Customers:**

This would be our end user of the system which would be accessing most of the after login features which would include payment options, category and service selection, store locator and a universal search engine.

- **Surveyor:**

It is the verification department of the project where surveyor manually checks for any damage or claim processing of the goods which are being transferred from source to the destination.

- **Administration users (Administrators)**

Administrative module is provided for the sake of administrators to manage the site and update the content at regular intervals, the major operations included in this module are:

It will see the current user.

It will approved registration

### 3.2 Purpose

The purpose of this project is to give an interactive platform for clients and wishbox packing and moving companies so that a best and reliable service is provided through this web portal. This portal also gives useful information to users and companies that help them a lot.

#### **Merits of proposed project**

- In our project we can get the correct information of both company as well as the customers.
- Company can keep a check on the updates taken place.
- Security is well maintained.
- Data access is fast.
- Paperwork is not involved or minimal.

### 3.3 Objective

The main aim of the Wishbox online application is to provide different services such as:

#### **Packing and Moving:**

The Wishbox companies listed here uses best quality packing materials to pack your goods in such a way that all goods remain in safe condition during transit & moving services assure the safe delivery of your goods at your destination.

#### **Relocation Services:**

Relocation to new place needs expert packing and moving company to handle all aspects of packing and moving. Moving companies have all latest devices, trucks, containers to provide safe pack and move to the destination.

#### **Car Services:**

The loving car is a INTERNSHIP trouble while shifting to another city or far location. Thanks to car movers companies, that they have special car carriers to provide car moving, car shifting services very easy and trouble free.

### **Household Shifting:**

Household shifting is to be done by the experts who know how to handle various household goods. Great care is needed to make safe shifting & the companies using best packaging materials to provide excellent house shifting services are here.

### **3.4 Scope**

This is a web based application so it is having much scope over the internet. It helps to provide best and reliable services to clients. All the small scale and big scale companies can access it and may spread their organization to world wide.

### **3.5 Technology and Literature Review**

#### **Literature Review/Background Study**

Our team has made a review at different levels to get the need and requirement of people. Our team made aim to conduct this review is to understand the need of the project very clearly, to do so we have made a review through several research papers and sites to search the necessary information.

From the review we got new ideas and views which helped us to make our plan and strategy for the project. We also surveyed and analyzed the available software of such kind in market and felt that there is good scope of improvisation in this field.

Outcome of the reviewed feature that can be added to software

1. Drawback of existing software.
2. Be realistic.
3. Consider risk factor.
4. Product should be cost effective.
5. Product should be user friendly.
6. Product must satisfy that time constraint.

## Technology

The front end is responsible for collecting input in various forms from the user and processing it to conform to a specification the back end can use. The front end is a kind of interface between the user and back-end.

Python is an interpreter, object-oriented, high-level programming language with dynamic semantics. Its high-level built-in data structures, combined with dynamic typing and dynamic binding; make it very attractive for Rapid Application Development, as well as for use as a scripting or glue language to connect existing components together. Python's simple, easy to learn syntax emphasizes readability and therefore reduces the cost of program maintenance. Python supports modules and packages, which encourages program modularity and code reuse. The Python interpreter and the extensive standard library are available in source or binary form without charge for all major platforms, and can be freely distributed.

## Html

HTML is an initialize of Hyper Text Markup Language for web pages. It provides a means to describe the structure of text-based information in document by denoting text as headings, paragraphs, lists and so on and to supplement that text with interactive forms, embedded images and other objects

## Python

Python is an interpreter, object-oriented, high-level programming language with dynamic semantics. Its high-level built-in data structures, combined with dynamic typing and dynamic binding; make it very attractive for Rapid Application Development, as well as for use as a scripting or glue language to connect existing components together. Python's simple, easy to learn syntax emphasizes readability and therefore reduces the cost of program maintenance. Python supports modules and packages, which encourages program modularity and code reuse. The Python interpreter and the extensive standard library are available in source or binary form without charge for all major platforms, and can be freely distributed.

## Django

Django is a high-level Python Web framework that encourages rapid development and clean, pragmatic design. Built by experienced developers, it takes care of much of the hassle of Web development, so you can focus on writing your app without needing to reinvent the wheel. It's free and open source.

## SQLite

SQLite is an embedded SQL (Structured Query Language) database engine library that works with many languages.

According to the official website, SQL text is compiled into bytecode, which is then run by a virtual machine. Therefore, it is extremely fast and can efficiently handle complex queries.

A SQLite database is stored as a disk file, similar to a CSV (comma-separated values) file. But SQLite has many advantages over using a CSV file:

- It is written using C. C is a statically-typed, compiled language which is much faster than most languages, including Python.
- It's lightweight, so it performs better and faster than reading from a CSV file.
- It's easy to set up
- It can handle more complex queries.
- It's more useful to learn, in case you are ever tasked with using SQL or MySQL in the future

## 3.6 Project Planning

Project Planning is concerned with identifying and measuring the activities, milestones and deliverables produced by the project. Project planning is undertaken and completed sometimes even before any development activity starts. Project planning consists of following essential activities:

- Scheduling manpower and other resources needed to develop the system.
- Staff organization and staffing plans.
- Risk identification, analysis, and accurate planning.
- Estimating some of the basic attributes of the project like cost, duration and efforts.

The effectiveness of the subsequent planning activities is based on the accuracy of these estimations. Project management involves planning, monitoring and control of the people, process and the events that occurs as the software evolves from a preliminary concept to an operational implementation. Cost estimation is a relative activity that is concerned with the resources required to accomplish the project plan.

### **3.6.1 Project Development Approach and Justification**

A Software process model is a simplified abstract representation of a software process, which is presented from a particular perspective. A process model for software engineering is chosen based on the nature of the project and application, the methods and tools to be used, and the controls and deliverables that are required. All software development can be characterized as a problem-solving loop which in four distinct stages is encountered:

- Requirement analysis
- Design
- Coding
- Testing
- Deployment

### **3.6.2 Project Effort and Time, Cost Estimation**

#### **Effort Estimation**

Each company determines the output it expects from its team members. Let us call the average output of a team member per man-hour as the unit output. Assume that one has to deliver an end-to-end login module's functionality for an application. The time spent on the login functionality should include the corresponding time required for gathering the requirements, doing a requirement analysis, architecture inputs, form design, object/class design, implementing the business rules, data validation and storage, framework (i.e., code for login module's constants, enumerations, utilities), testing, debugging, deployment up to user

acceptance, etc. Now, the estimator has to figure out how many man-hours it would take to complete the login module, keeping all these factors in mind.

The sequence of work and dependencies should be considered as they do cause delays in completion. For example, form design should be done first (all the way up to acceptance by the customer), then object design (up to acceptance by the architect), followed by coding (for business rules, calculations, and data validations), internal testing, and user acceptance testing. A wise estimator would always take support from other people to understand the scope of work to do a given task.

Implementing the business rules, data validation and storage, framework (i.e., code for login module's constants, enumerations, utilities), testing, debugging, deployment up to user acceptance, etc. Now, the estimator has to figure out how many man-hours it would take to complete the login module, keeping all these factors in mind. The sequence of work and dependencies should be considered as they do cause delays in completion. For example, form design should be done first (all the way up to acceptance by the customer), then object design (up to acceptance by the architect), followed by coding (for business rules, calculations, and data validations), internal testing, and user acceptance testing. A wise estimator would always take support from other people to understand the scope of work to do a given task.

## Cost Estimation

The COCOMO Model Like all estimation models for software, the COCOMO models require sizing information. Three different sizing options are available as part of the model hierarchy: object points, function points, and lines of source code. Like function points, the object point is indirect software that is computed using counts of the number of

- 1) Screens (at the user interface),
- 2) Reports,
- 3) Components likely to be required to build the application.

Once complexity is determined, the number of screens, reports, and components are weighted according to Table above. The object point count is then determined by multiplying the original number of object instances by the weighting factor in table above and summing to obtain a total object point count.

When component-based development or general software reuse is to be applied, the percent of reuse (%reuse) is estimated and the object point count is adjusted:  $NOP = (\text{object points}) \times [(100 - \% \text{reuse}) / 100]$ . Where NOP is defined as new object points. To derive an estimate of effort based on the computed NOP value, a “productivity rate” must be derived.  $\text{PROD} = \text{NOP} / \text{person-month}$ .

For different levels of developer experience and development environment maturity. Once the productivity rate has been determined, an estimate of project effort can be derived as

Estimated effort = NOP/PROD.

There are three types of software project: Organic project, Semi-detached project, Embedded project.

### **Advantages of COCOMO:**

- COCOMO is factual and easy to interpret.
- One can clearly understand how it works.
- Accounts for various factors that affect cost of the project.
- Works on historical data and hence is more predictable and accurate.

### **Disadvantages**

- COCOMO model ignores requirements and all documentation.
- It ignores customer skills, cooperation, knowledge and other parameters.
- It oversimplifies the impact of safety/security aspects.
- It ignores hardware issues .It ignores personnel turnover levels It is dependent on the amount of time spent in each phase.

### **3.6.3 Roles and Responsibilities**

This phase defines the role and responsibilities of each and every member involved in developing the system. To develop this system there was only one group with two members working on the whole application. Each member was responsible for each and every part of developing the system. Each of the group members has sufficient knowledge in several programming languages.

#### **1. Customers:**

This would be our end user of the system which would be accessing most of the after-login features which would include payment options, category and service selection, store locator and a universal search engine.

#### **2. Surveyor:**

It is the verification department of the project where surveyor manually checks for any damage or claim processing of the goods which are being transferred from source to the destination.

#### **3. Administration users (Administrators):**

Administrative module is provided for the sake of administrators to manage the site and update the content at regular intervals, the major operations included in this module are:

It will see the current user.

It will approve registration

### 3.7 Project Scheduling (Gantt Chart)

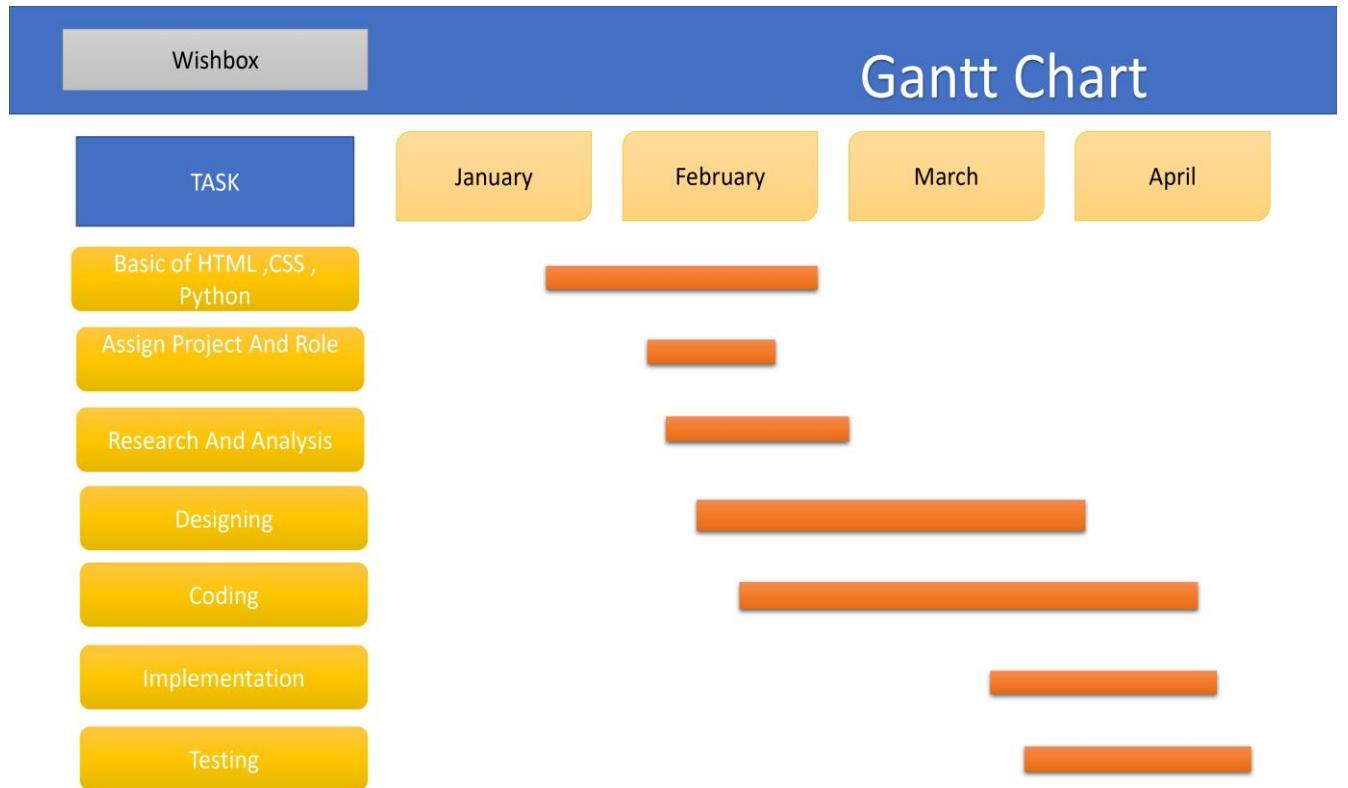


Fig 3.7.1 Gantt Chart

## System Analysis

### 4.1 Study of Current System

There are lot of web sites are working for the Fillers and Movers. These websites provide limit information to the different types of users, and these are limited to few Companies and surveyor. A user go to this sites and give his queries and the company will personally contact to him and this all such process do not gives a well communications.

So, our web portal helps clients to search the best Packing and Moving Company.

### 4.2 Problem and Weakness of Current System

The main problem that we face during shifting our goods and households is that either to take all the goods or to leave some of it or to sold them out. To handle such kind of problem the role of wish box agencies comes into action. This agency works according to the needs and requirement of the customers and provide them the desirable results. The wish box agencies uses best quality packing materials to pack our goods in such a way that all goods remain in safe condition during transit & moving services assure the safe delivery of our goods at our destination. Relocation to new place needs expert packing and moving company to handle all aspects of packing and moving. Moving companies have all latest devices, trucks, containers to provide safe pack and move to the destination. Therefore, to handle all the problem of packing the goods and moving them from one place to another the wish box agencies are hired.

It is seen that there are many agencies are working for this and all of these agencies has their own websites to give their service information and a user has to visit to individual sites, to overcome this problem we have designed a web portal so that all the companies register over it and user get the information on one single site only.

### 4.3 Requirements of New System

Wish Box is an online platform for service seekers and service providers where all the companies are available at single site as web portal and they do communicate directly with service seekers. In Wish Box we have listed excellent packing moving service providers of India, household shifting and relocation services providers, car transportation, office relocation, home, shop, industrial or commercial shifting service providers of India. Our Wish Box directory is having ultimate objective of providing information to its visitors about best Fillers movers and relocation companies offering its services in Indian destinations. The reliable and swift Wish Box services providers are the best for any kind of relocation and car transportation services.

There are many Wish Box operating in India but all of them are not well established and experienced companies. It becomes difficult for you to choose best and reliable Wish Box in your city when you need to relocate your house, office and other interrelated services our mission is to offer you those Wish Box which provide packing moving services with full responsibility and reliability. The listed companies will provide door to door services within an appropriate time. Their professional management takes care of your every single need. These companies promise to provide trouble free packing and moving services with economical cost.

Whenever you need to store your goods you don't have to search for warehousing storage service providers. Now Wish Box also provide storage and warehousing storage services providers at reasonable rate with full safety and security. Goods can be stored in stock room for short and long duration. The warehouse has an absolute security and climate control system.

Relocating your house, offices, industries and corporate can be very simple and hassle free. Since relocation task involves lot of paper works like custom clearance, insurance, visa clearance, etc. Fillers & Movers offers you most excellent and top-class relocation service providers. These Wish Box operate with full efficiency and accuracy.

## 4.4 System Feasibility

### 4.4.1 Does the system contribute to the overall objectives of the organization?

Our project is capable to be implemented at an organization level. And, having objectives that outline an organization's focus can help employees stay focused and create cohesion in the workplace. These objectives should align with a company's vision and communicate its values. In this article, we discuss why the objectives of an organization are important, how to organize these objectives, the goals of organizational objectives and elements of good objectives. The objectives of an organization are important because they help every member of the organization, from stakeholders to entry-level employees, understand the company's mission.

### 4.4.2 Can the system be implemented using the current technology and within the given cost and schedule constraints.

We have implemented this project using the existing version of all the technologies used in it. We have no invested a single coin in this project. We have tried to cover all the user requirements to provide the maximum comfort to them, so we can achieve the long-term objectives with the maximum unique features. As requirements are gathered an overall version of system functions and features begins to materialize.

At project inception, software engineers ask a set of questions that establish:

- Basic understanding of problem.
- The people who want to use various services.

## 4.5 Activity of New System

### 4.5.1 Use-Case:

<b>Actor</b>	<b>Action Performed</b>	<b>System Response</b>
<b>Administrator</b>	Login	After successful login it will show the Admin Home Page. For Various Administrator operations.
	Surveyor Management	To manages the Surveyor list such as adding, updating and deleting from list.
	Quotation Management	To view the Quotations and to delete it as it is serviced.
	Service Management	To manage the system functionality and services, and also the database management.
	Feedback Management	To view the feedback and delete it if required from database.
<b>Surveyor</b>	Registration	To access the Web portal services first surveyor has to register to this site.
	Login	After successful login it will show the Surveyor HomePage. For Various Surveyor operations.
	Quotation View	To review the Quotation placed by clients.
	Search WishBox	Search WishBox companies registered on this web portal.
	Profile Updating	To see own profile and to do changes if required and update the changes over database.
<b>Clients</b>	Use Services	To access various services provided on this web portal.
	Quotation	Place the Quotation with its full details so that reliable surveyor will contact to you directly.
	Search WishBox	Search WishBox companies registered on this web portal.
	Feedback	To give feedback.

## Use Case Diagram

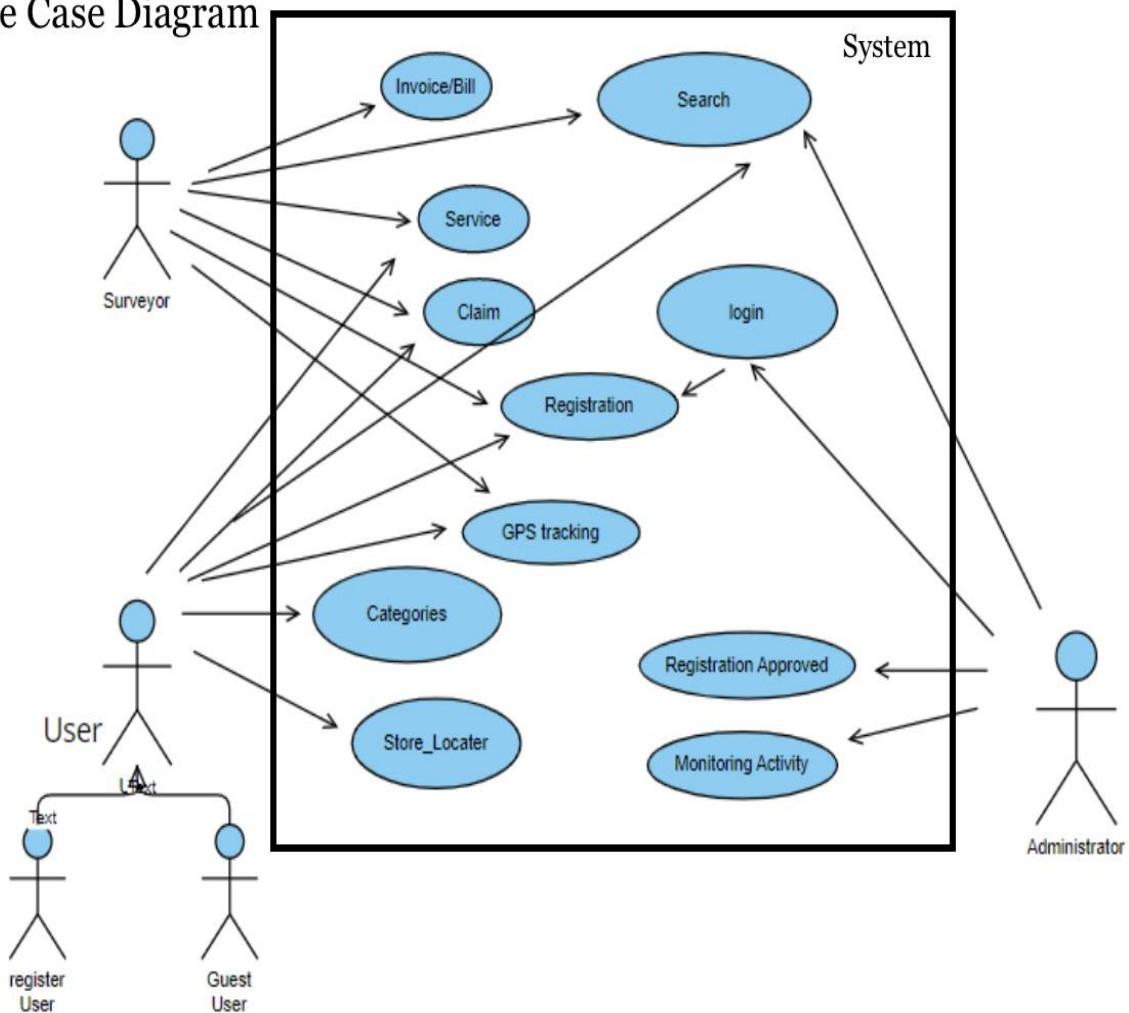


Figure 4.5.1 Use-Case System

#### 4.5.2 Activity Diagram

**Admin**

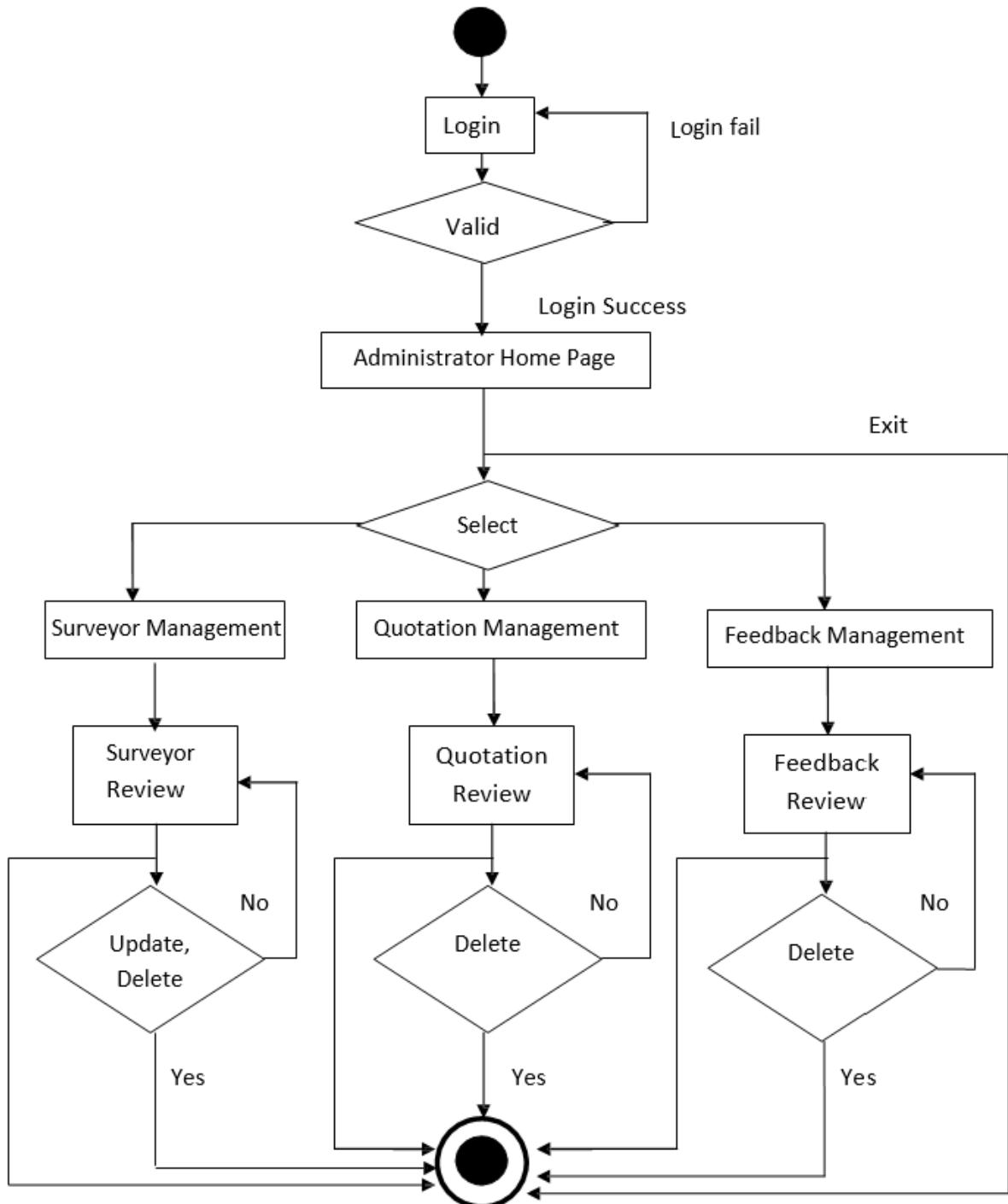


Figure 4.5.2 Activity Diagram (Admin)

**Basic flow for Administrator is as follows:**

1. Administrator enters his correct Login ID and password to enter in his Administrator Home Page.
2. The condition is checked that weather the Login ID or password is correct or not. if it fails then it shows a message and redirect to login page again for entering the correct Login ID and password.
3. If the Login is success then Administrator enters into his Home page for various operations to perform.
4. Then he has to select one of the Modules from list Module.
5. When surveyor Management is selected, he can view list of surveyors that are registered over this portal.
6. He selects one from them and does the operations such as addition, deletion, and updating the surveyor and saves it to database.
7. These changes are permanent and can be viewed by others also.
8. When Quotation Management is selected, he can view list of Quotations that are placed by user over this portal.
9. He selects one from them and view and if required delete it from database.
10. When Feedback Management is selected, he can view list of Feedback that are given by user over this portal.
11. He selects one from them and view and if required delete it from database.
12. He also performs required operation according to feedback given from users.
13. At the end Administrator Logout from his Home page.

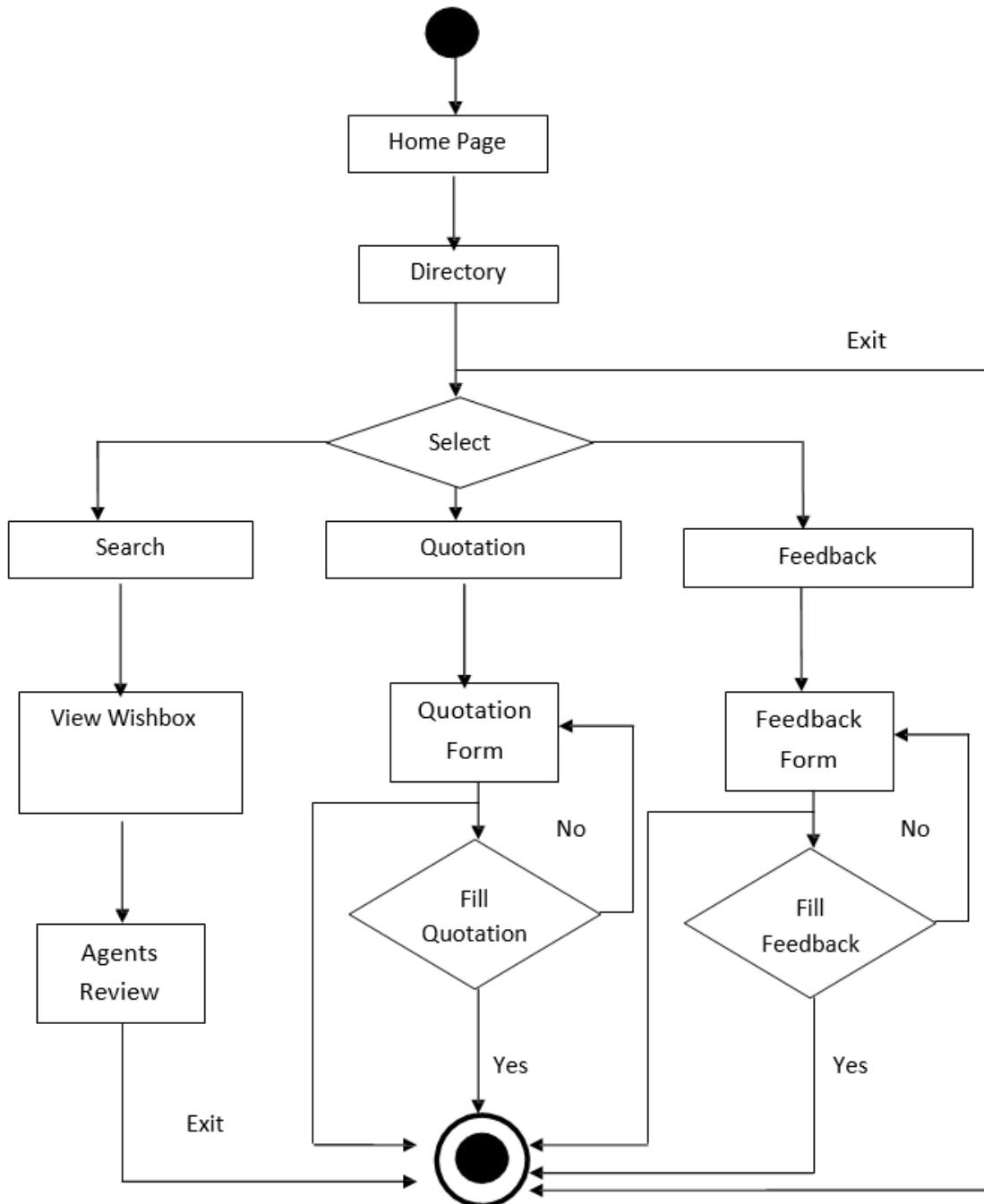
**User(Client)**

Figure 4.5.3 Activity Diagram (User)

**Basic flow for User is as follows:**

1. Firstly, Clients enters into Home Page of our web portal where he can see all the basic information about the web portal and services that he can access through this website.
2. For the search of the service providers he has to go to the Directory page where he can search the service providers city vice and also view other useful information that are provided through this website.
3. After entering to directory he has to select one of the Modules from list Module.
4. When Search Wish Box are selected, he can view list of all the available Fillers and Moving Companies.
5. When Quotation is selected, quotations Form is available.
6. He provides the information such as Name, Email ID, Mobile number, Service type, Shift from, Shift to, service date, contact time, and other details by submitting Quotation.
7. When Feedback is selected, Feedback Form is available.
8. He provides the information such as Name, Email ID, Mobile number, Experience, Comments, and other details by submitting Feedback.
9. At the end Client exits from the site.

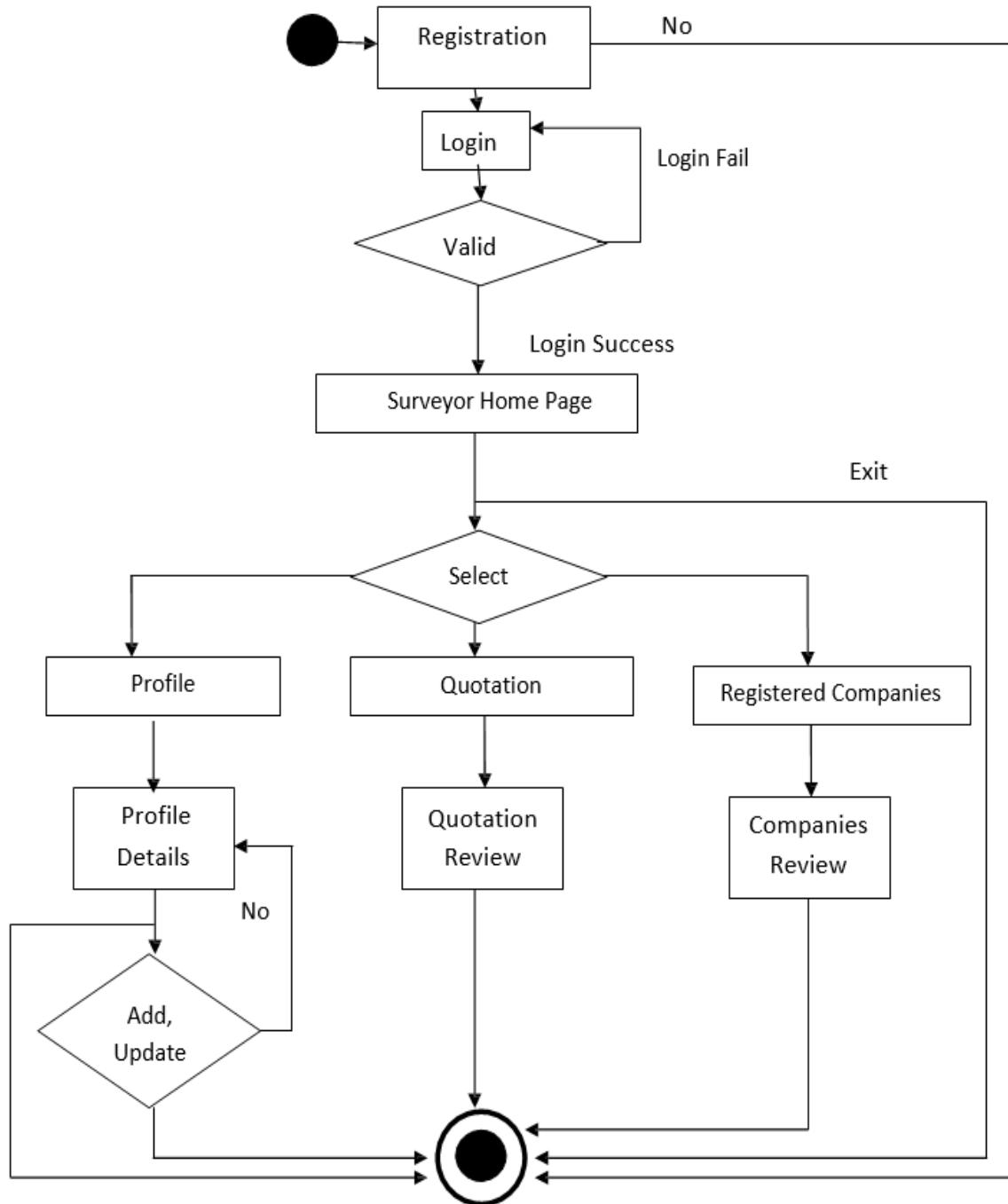
**Surveyor**

Figure 4.5.4 Activity Diagram (Surveyor)

**Basic flow for Surveyor is as follows:**

1. Firstly, a surveyor has to register their company on this web portal by giving all his basic information such as Company Name, Address, city, state, pin code, contact name, phone number, email ID, password, service type, and mobile number.
2. When he successfully registers, he has a login ID and password.
3. surveyor enters his correct Login ID and password to enter in his surveyor Home Page.
4. The condition is checked that weather the Login ID or password is correct or not if it fails then it shows a message and redirect to login page again for entering the correct Login ID and password.
5. If the Login is success then surveyor enters into his Home page for various operations to perform.
6. Then he has to select one of the Modules from list Module.
7. When Profile updating is selected, he can view his own information.
8. He does the operations such as addition, and updating the profile and saves it to database.
9. These changes are permanent and can be viewed by others also.
10. When Quotation is selected, he can view list of Quotations that are placed by user over this portal.
11. He selects one from them and views the detailed information about quotation from database.
12. When Registered Companies is selected, he can view list of all Registered Companies.
13. He selects one from them and view details of it from database.
14. He also directly communicates to the users who have placed the quotation to give required services accordingly.
15. At the end surveyor Logout from his Home page.

#### 4.5.5 Sequence Diagram

**Sequence Diagram for Administrator:**

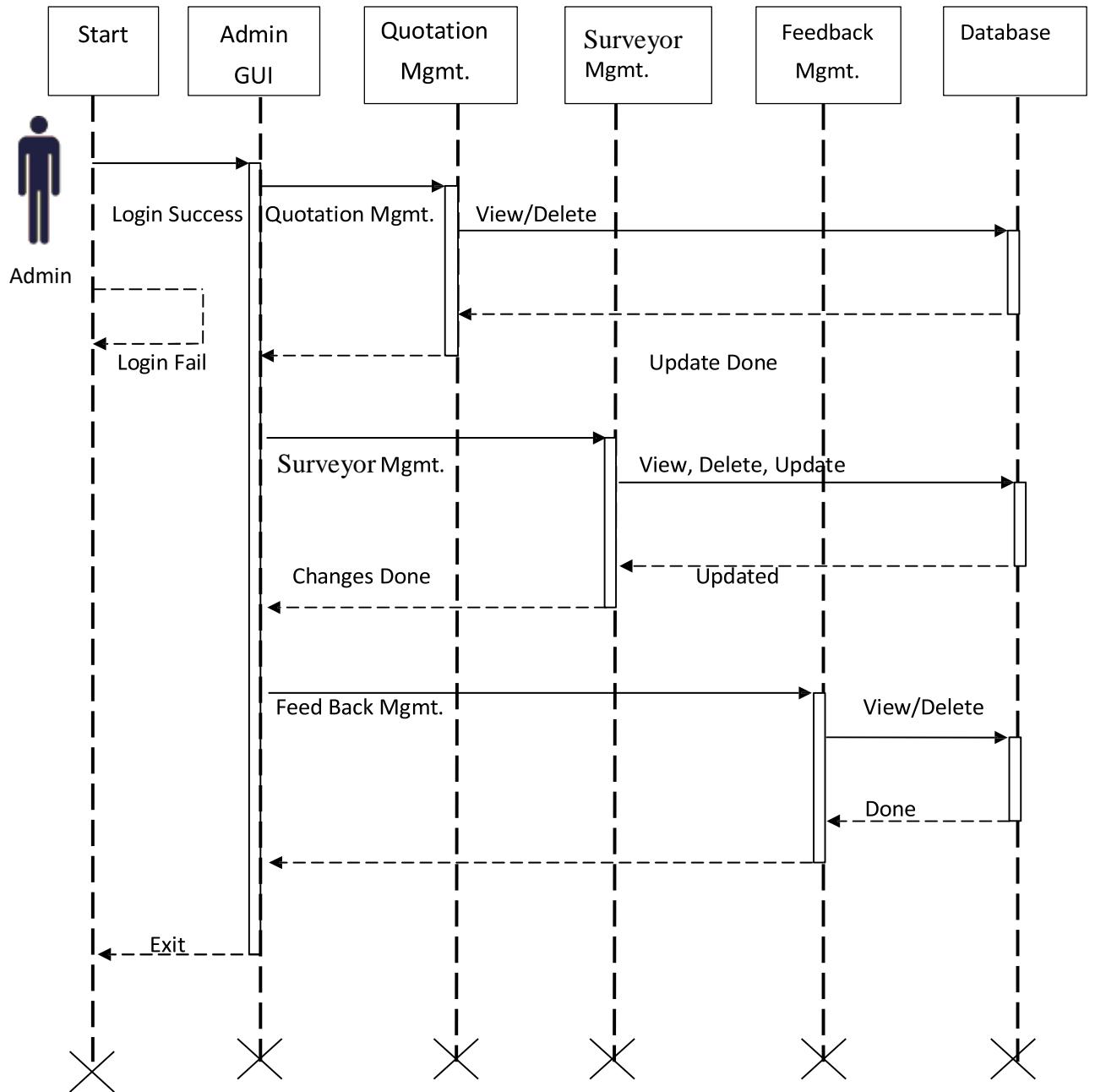
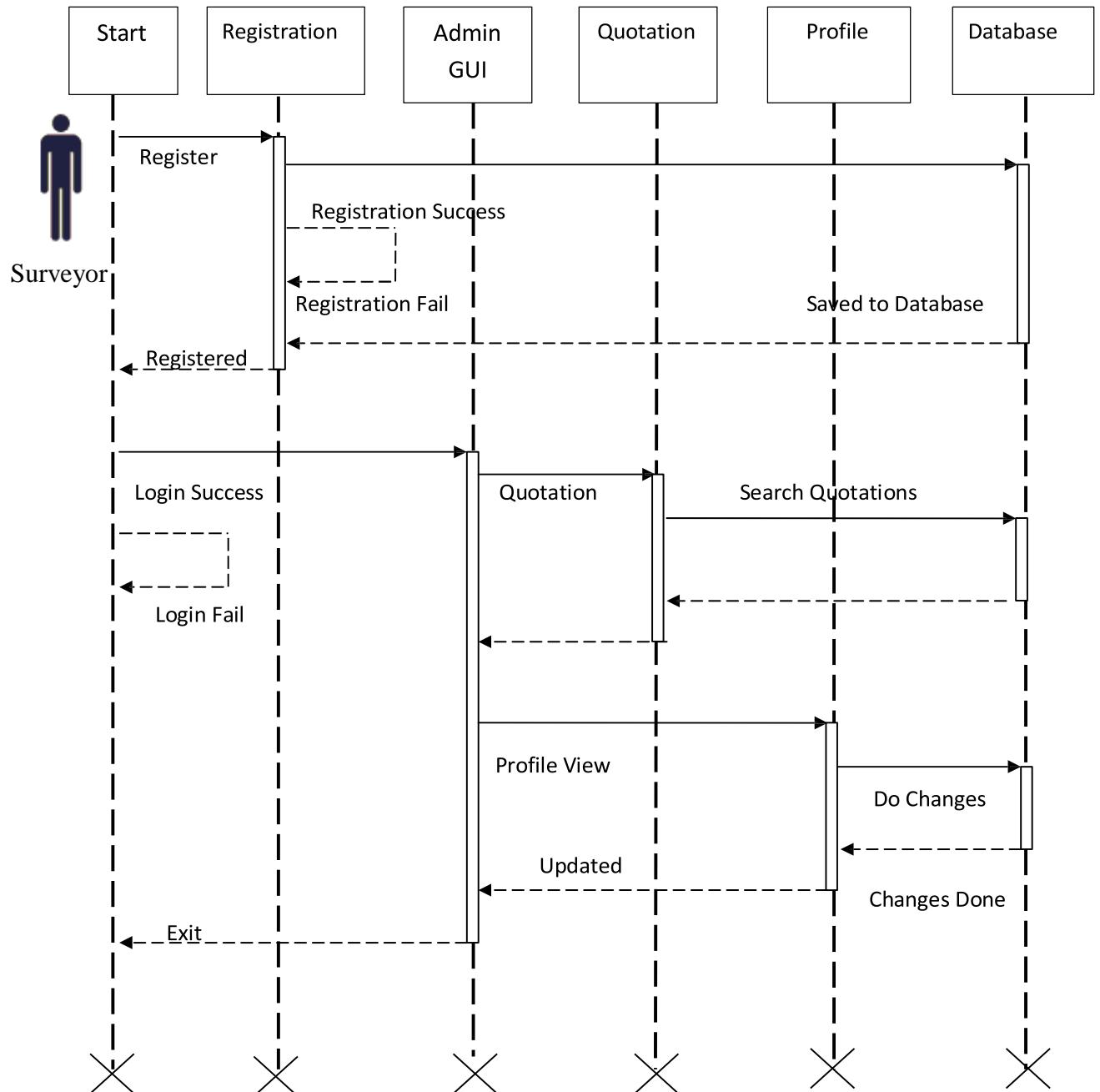
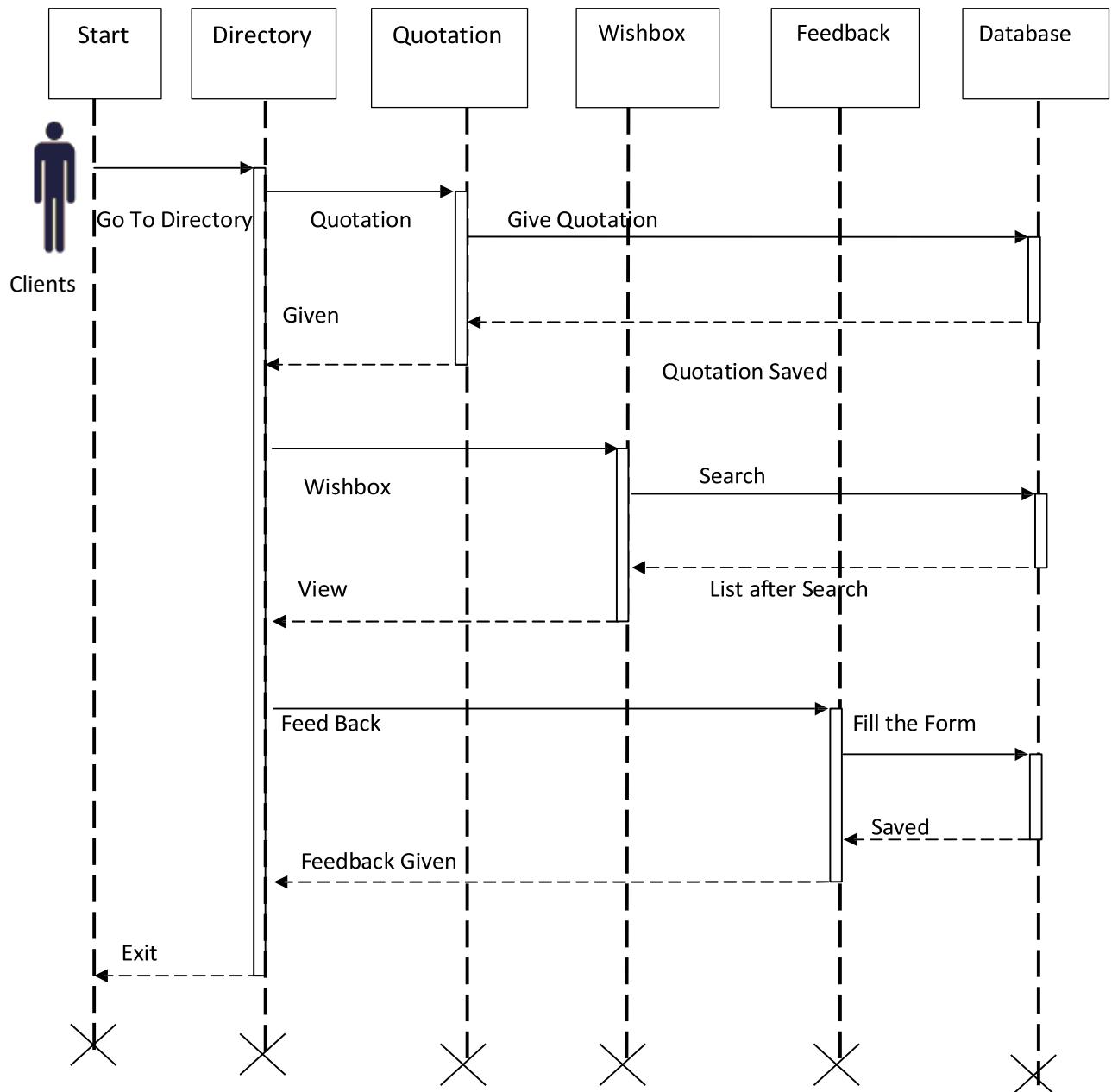


Figure 4.5.5 Sequence Diagram

### Sequence Diagram for Surveyor:



### Sequence Diagram for Clients:



#### 4.5.6 E-R Diagram

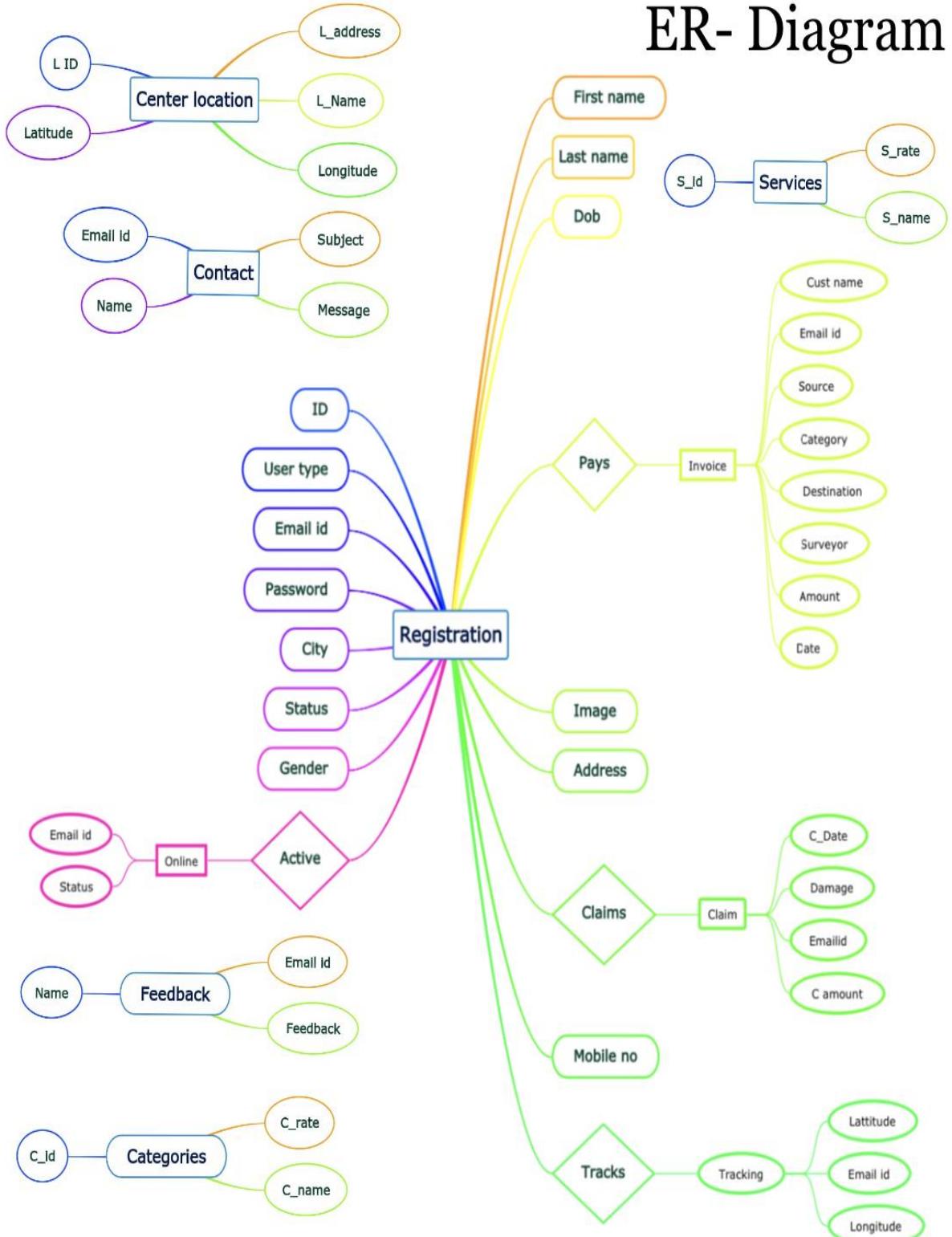


Figure 4.5.6 E-R Diagram

#### 4.5.7 Class Diagram

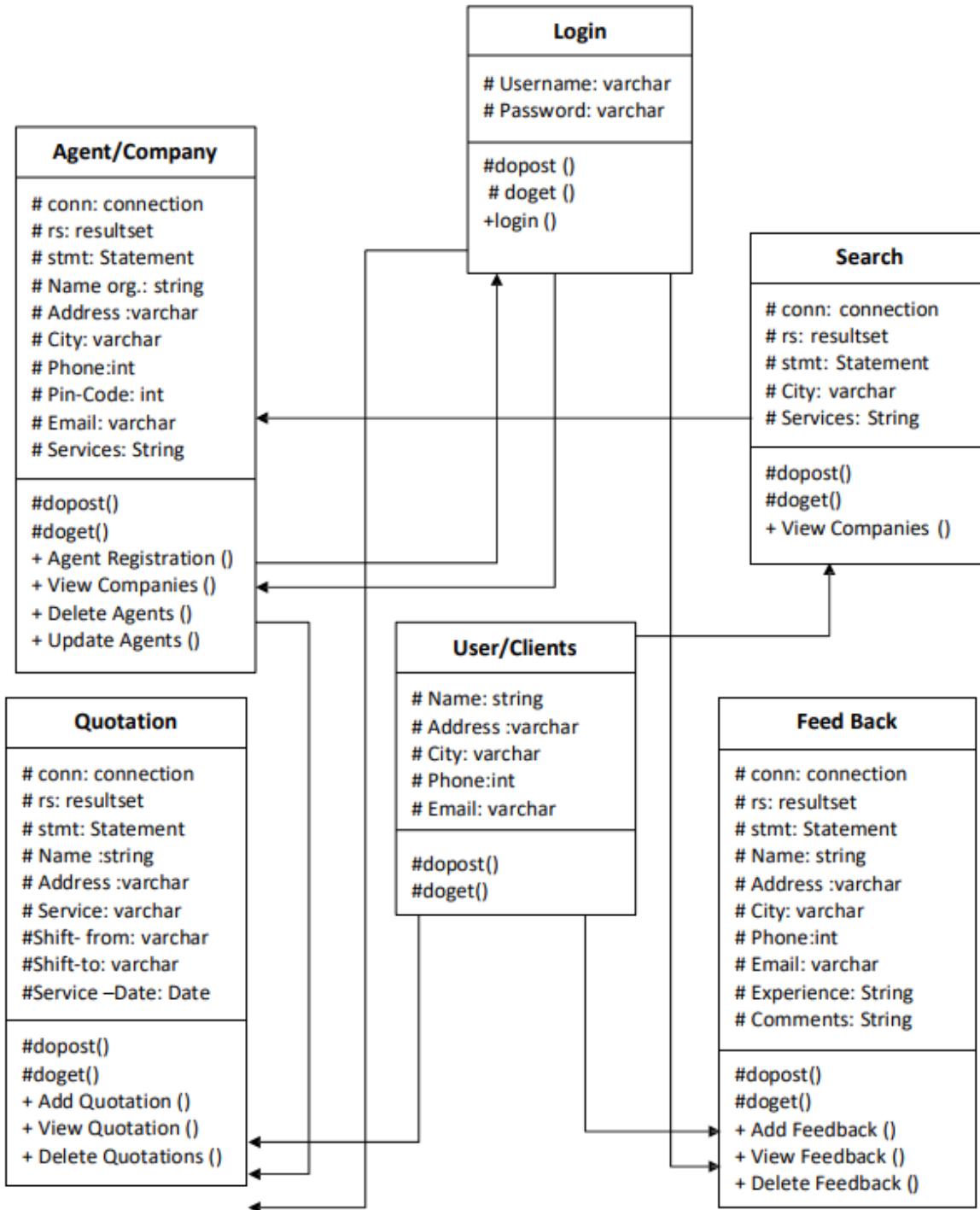


Figure 4.5.7 Class Diagram

## 4.6 Features of New System

### **Speed:**

A good transport system should have proper speed in order to carry goods from one place to another in less time. Goods should reach the destination on time except from natural calamities or unavoidable causes.

### **Insurance:**

It should provide for insuring the risks of loss or damage to goods in transit and assure payment of due compensation in case of delay causing loss to the owner of goods.

### **Arrangements:**

Goods should be loaded and unloaded promptly and at minimum cost by providing proper arrangements by a good transport system.

### **Secure online payment**

Payment is processed securely online. Customers pay safely online and manage the booking.

## 4.7 Modules and Their Description of System

### **4.7.1 Signup/ Login Module**

#### **Login**

To go to the required home page for various operation login is important.

#### **Input to this module:**

1. Login ID
2. Password

#### **Output of the module:**

1. Successful login or Login failure

## Signup

To access our services a surveyor has first have to register to the system by providing all the required information.

### **Input to this module:**

1. Company Name
2. Address
3. City
4. State
5. Pin Code
6. Name
7. Phone Number
8. Email ID
9. Password
10. Service type
11. Mobile Number

### **Output of the module:**

1. Register entry conformed or failure

#### **4.7.2 Search Module:**

To get the suitable service provider user has to search it.

##### **Input to this module:**

1. City name

##### **Output of the module:**

1. Company Name
2. Address
3. City
4. State
5. Pin Code
6. Name
7. Phone Number
8. Email ID
9. Password
10. Service type
11. Mobile Number

### 4.7.3 Quotation Module

A client gives the quotation for required service seekers.

#### **Input to this module:**

1. Name
2. Service type
3. Email ID
4. Mobile Number
5. Shift from
6. Shift to
7. Service Date
8. Contact Time
9. Details

#### **Output of the module:**

1. Quotation successfully placed.

#### 4.7.4 Feedback Module

A Client also may give the feedback.

##### **Input to this module:**

1. Name
2. Company
3. Address
4. City
5. Pin Code
6. Email Id
7. Phone Number
8. Experience
9. Comments

##### **Output of the module:**

1. Feedback successfully given

### 4.8 Selection of Hardware and Software Characteristics

#### **Hardware Requirements**

The hardware interfaces define the hardware devices needed for an application to run such as type of processor and the amount of memory required.

- a) Any processor of Pentium, recommended Intel C2D processor.
- b) Free Secondary memory (Min 1 G.B. recommended free space).
- c) Min 64MB, Recommended 512 MB of Main Memory.

#### **Software Requirements**

- a) Client on Internet: Web Browser, Operating System (any)
- b) Data Base Server: MY SQL, Operating System (any)
- c) Development End: Python Django , PyCharm IDE

# System Design

## 5.1 System Design & Methodology

Systems design is the process of defining the architecture, components, modules, interfaces, and data for a system to satisfy specified requirements. The System Design Description report provides summary or detailed information about a system design represented by a model. Systems design is therefore the process of defining and developing systems to satisfy specified requirements of the user.

## 5.2 Database Design

Database design is the process of producing a detailed data model of a database. This logical data model contains all the needed logical and physical design choices and physical storage parameters needed to generate a design in a Data Definition Language, which can then be used to create a database. A fully attributed data model contains detailed attributes for each entity.

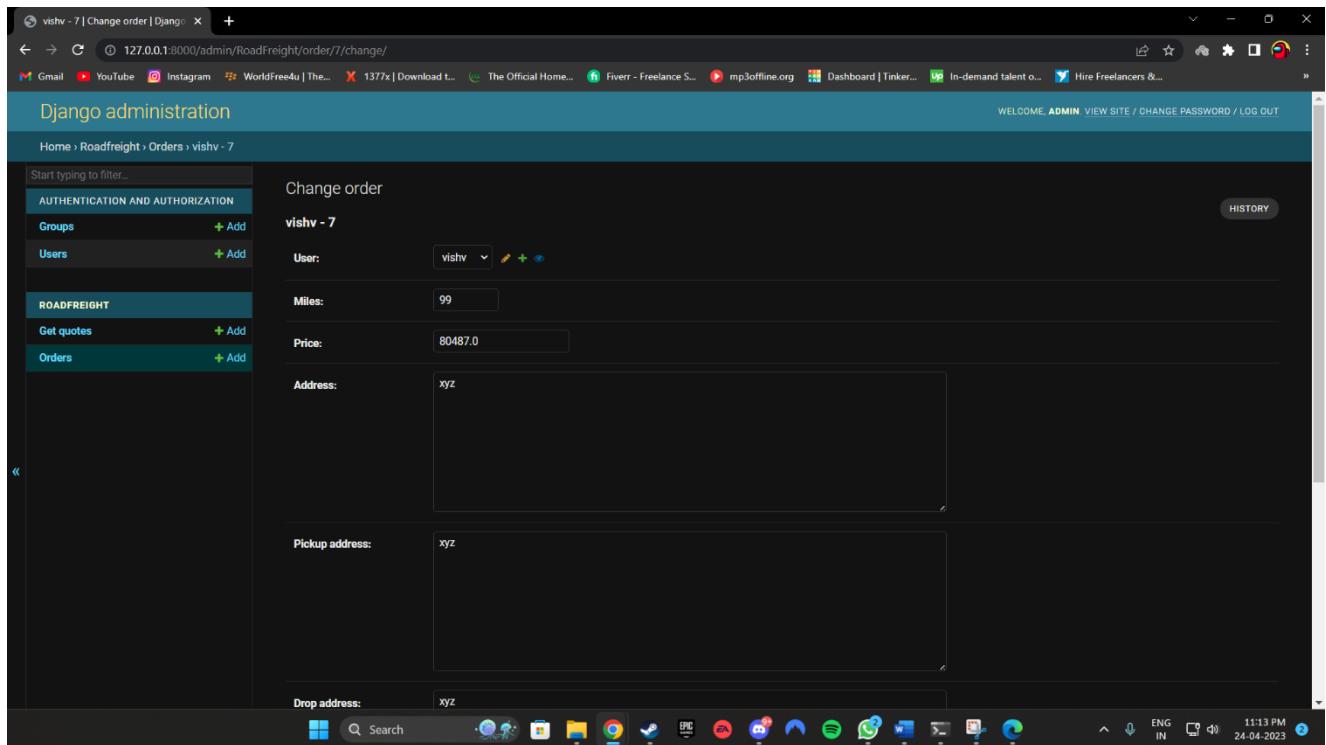
## Screenshots

### Database

The screenshot shows the Django Administration interface for managing users. The URL is `127.0.0.1:8000/admin/auth/user/`. The page title is "Select user to change". The left sidebar has sections for AUTHENTICATION AND AUTHORIZATION (Groups, Users), ROADFREIGHT (Get quotes, Orders), and a general "Start typing to filter..." search bar. The main content area displays a table of users with columns: Action, USERNAME, EMAIL ADDRESS, FIRST NAME, LAST NAME, and STAFF STATUS. Two users are listed: "admin" (staff status checked) and "vishv" (staff status unchecked). To the right of the table is a "FILTER" sidebar with dropdowns for By staff status (All, Yes, No), By superuser status (All, Yes, No), and By active (All, Yes, No).

Action	USERNAME	EMAIL ADDRESS	FIRST NAME	LAST NAME	STAFF STATUS
<input type="checkbox"/>	admin				<input checked="" type="checkbox"/>
<input type="checkbox"/>	vishv	vishvpatel255@gmail.com	vishv		<input type="checkbox"/>

## Orders Database



## 5.3 System Procedural Design

### 5.3.1 Design Pseudo code or algorithm for method or operation

#### Admin Side

Step 1: Enter the URL to open the system.

Step 2: Click on Login Button for Login .

Step 3: Provide user name and password.

Step 4: If username and password both is correct then it will login successfully.

Step 5: It shows Admin page.

Step 6: Admin can able to perform Many operations and Also Access to all pages.

Step 7: Admin contain service request which include UserId status (New, pending, Completed).

## User Side

Step 1: Enter the URL to open the system.

Step 2: Click on Login Button for Login.

Step 3: Provide user name and password.

Step 4: If username and password both is correct then it will login successfully.

Step 5: It shows home page.

Step 6: It will Book the Services and also show that book service on customer Dashboard.

Step 7: Logout User.

## Surveyor Provider

Step 1: Enter the URL to open the system.

Step 2: Click on Login Button for Log in.

Step 3: Provide user name and password.

Step 4: If username and password both is correct then it will login successfully.

Step 5: It shows home page.

Step 6: Service Provider contain New Service Request which is able to accept Service.

Step 7: Service Provider contain Upcoming Services which is able cancel the request.

Step 8: Service Provider contain Rating to rate service provider and also show history.

Step 9: Logout from Service Provider.

### 5.3.2 Flow Chart

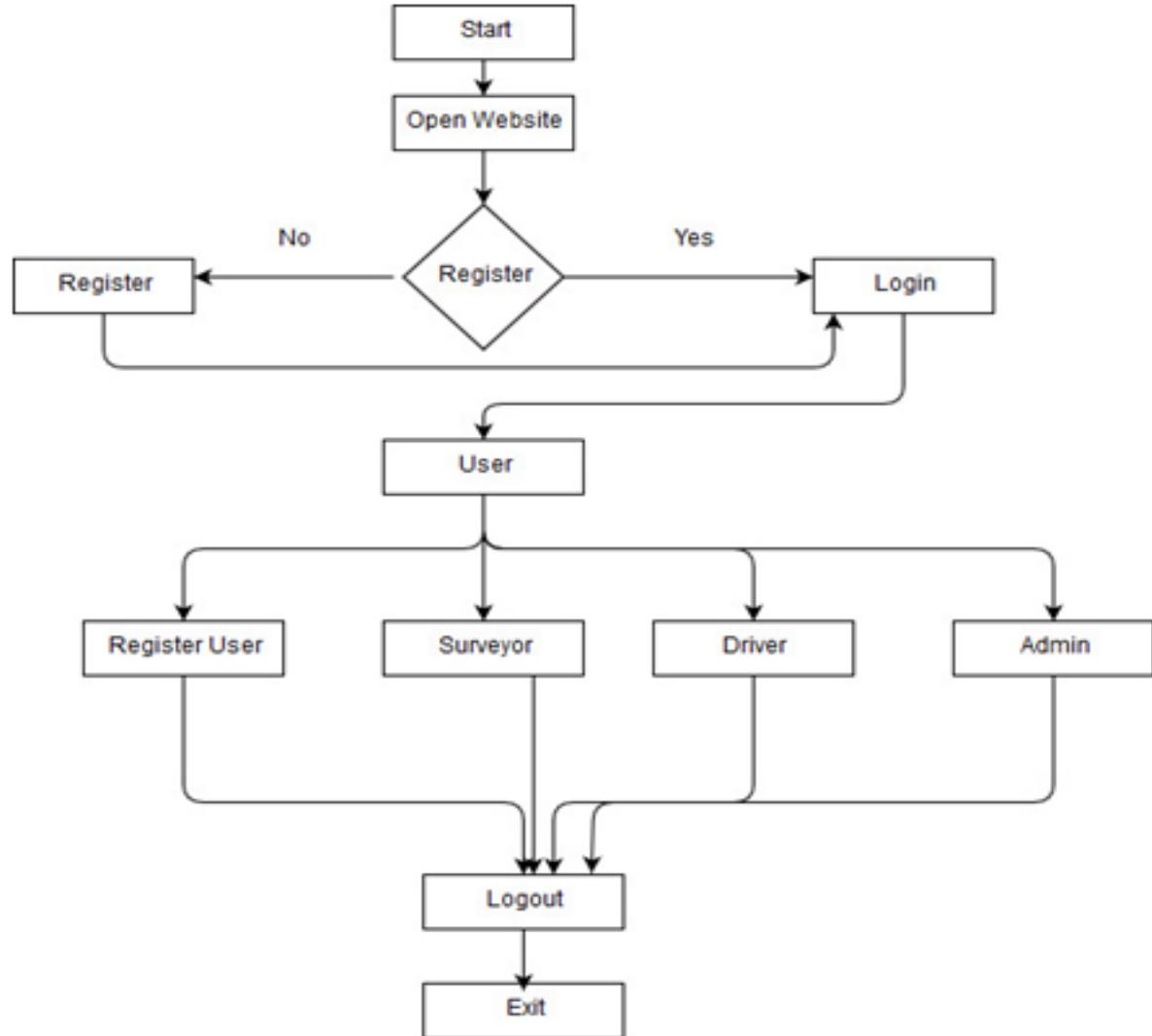
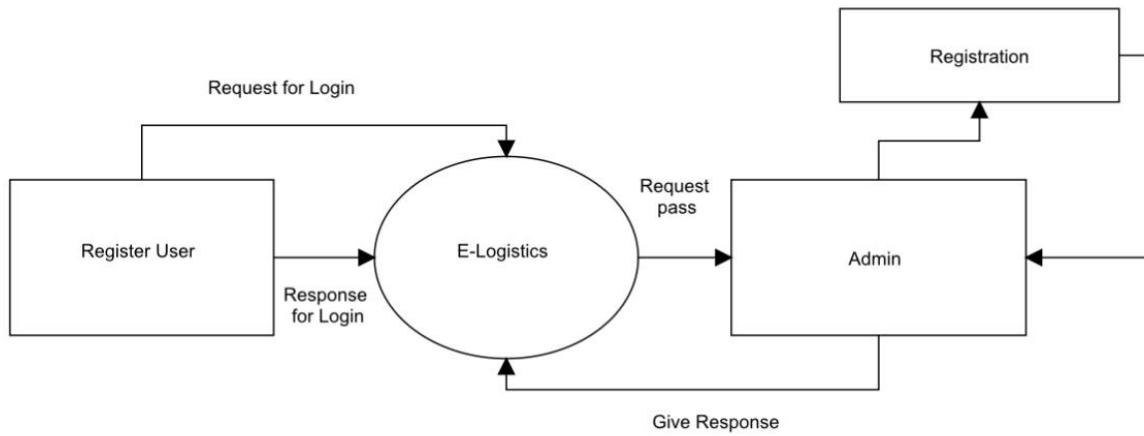


Figure 5.3.2.1

### 5.3.3 Data Flow Diagram (DFD 0) And (DFD 1)

## Data Flow Diagram 0



## Data Flow Diagram 1

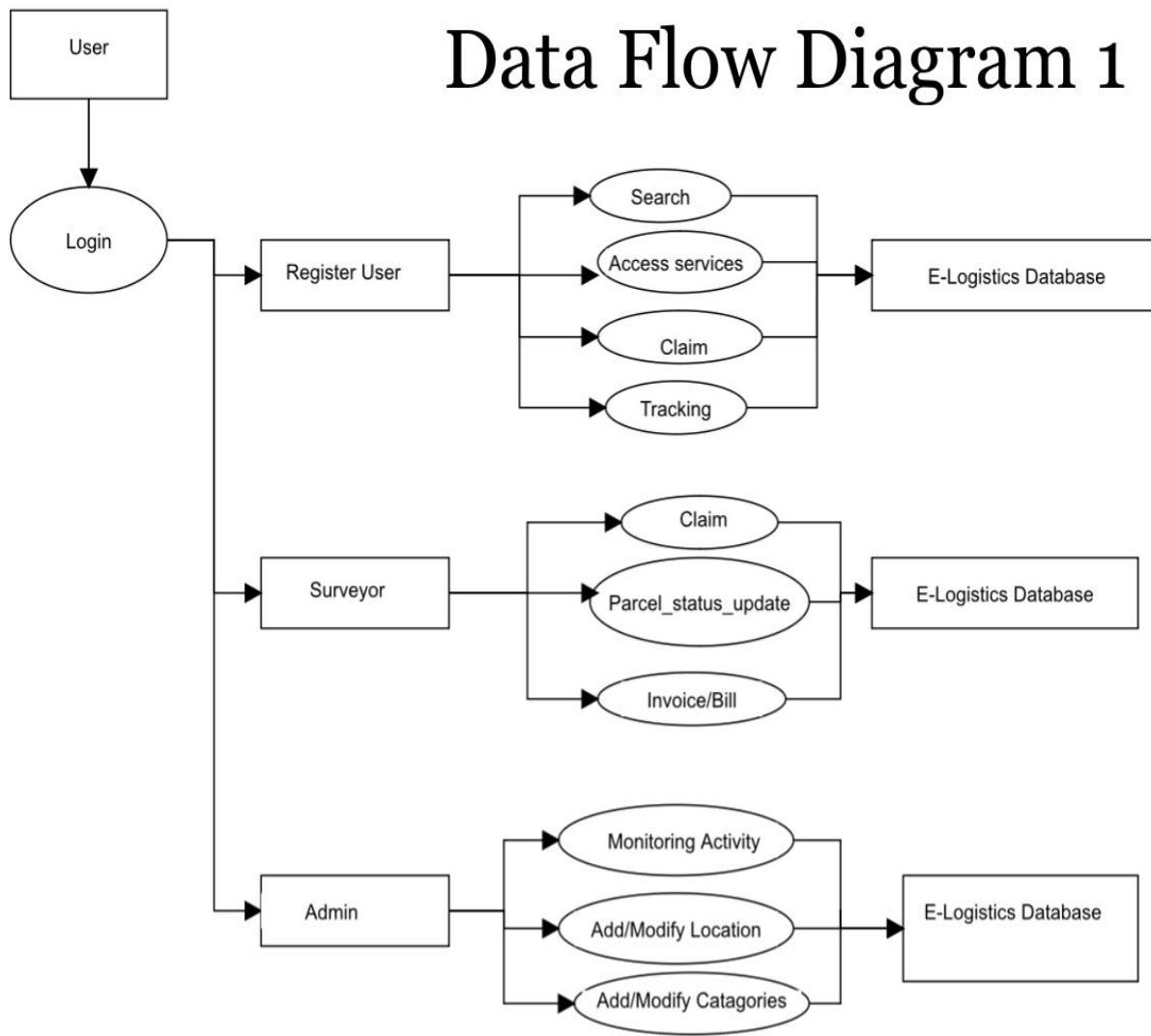


Figure 5.3.3.1

# Implementation

## 6.1 Implementation Platform

- Our project is suitable to all type of users like single and multi-users.
- Multi users are allowed to operate the website at the same time.
- We provide the interface which is user friendly.
- We have GUI (graphical user interface) by which all type of users can easily access the application.
- One user at a time and also multi users can access the website at the same time and use all the services.
- If we don't provide the GUI in the website then user won't like our website.
- For better performance and reliability, we have to include GUI in the website.
- So, for the more security and performance we have to use the GUI.

## 6.2 Technology Specification

### User Authentication

- Identification and authentication are used to establish a user's identity.
- Each user is required to log in to the system.

### Password Protection

- Every user who is to be allowed to access the portal is given his own username and password and given his own access rights so that only authorized and authenticated users can access the project.

### Confidentiality

- We provide confidentiality to all the users.
- In that one user cannot access the data of the other users.
- For that we provide one key to each user to secure its data.

### Scalability

- We provide the scalable website to make sure that every user can access the website in a proper order.
- User likes those type of website which are in one particular order that user cannot wait for the usage of the services.

## 6.3 Results

### Admin Login

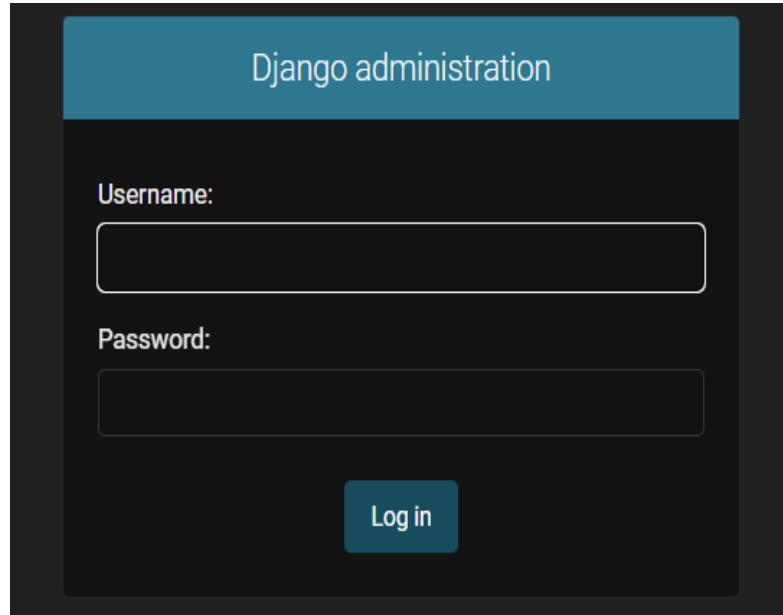


Figure 6.3.1 Admin Login

### Customer Create Account

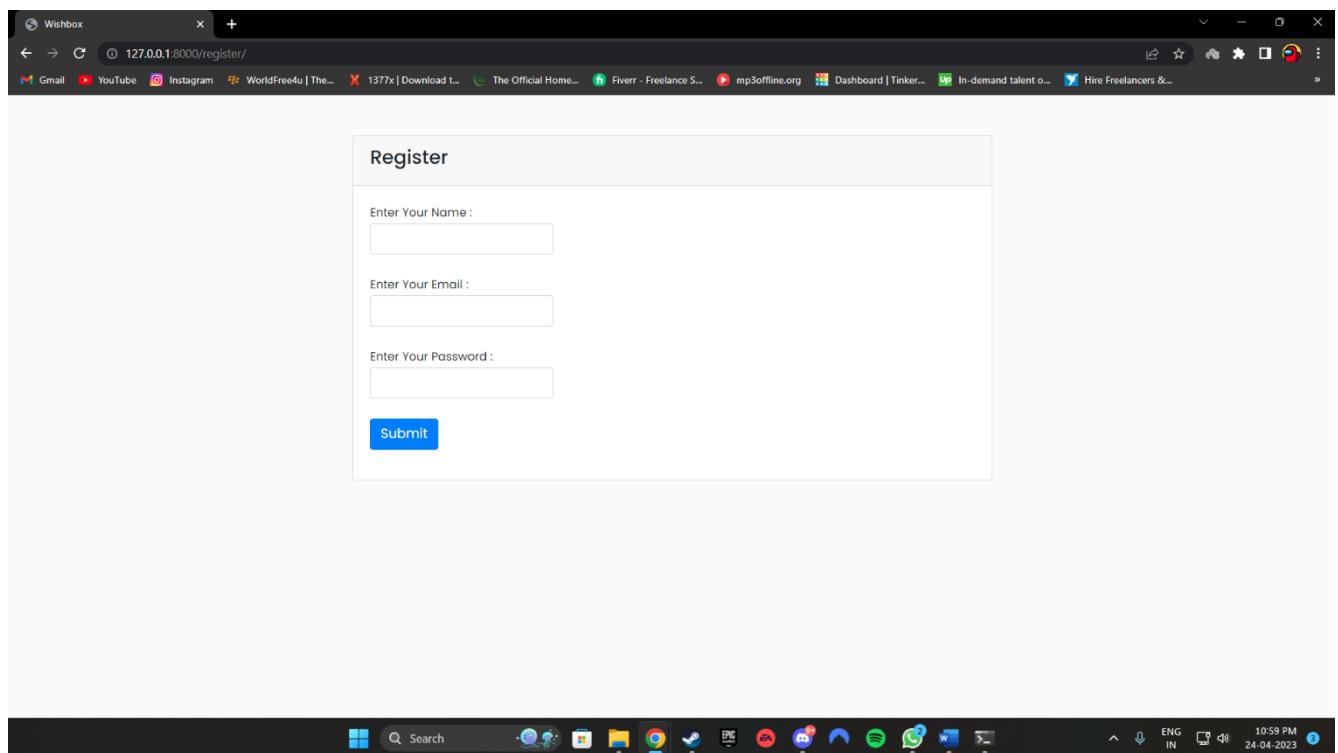


Figure 6.3.2 Customer Create Account

## Public(Home Page) Dashboard

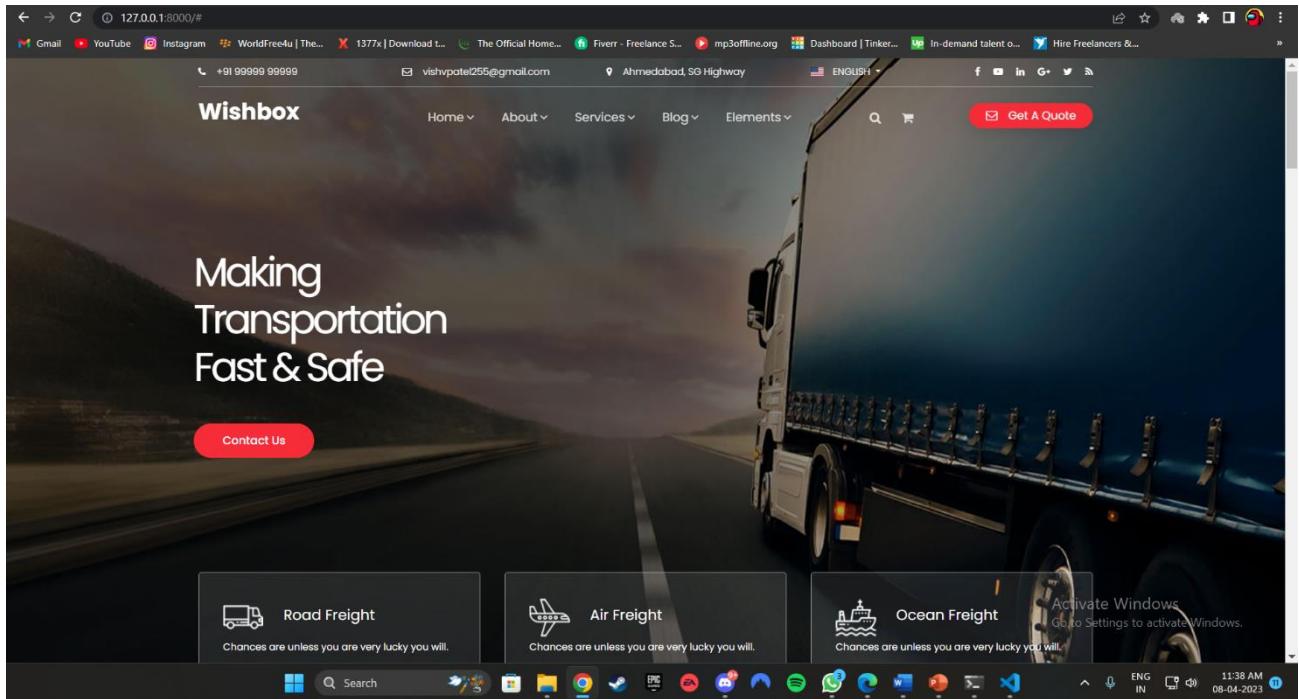


Figure 6.3.3 Public(Home Page) dashboard

## About Page

Figure 6.3.4 About Page

## Service Page

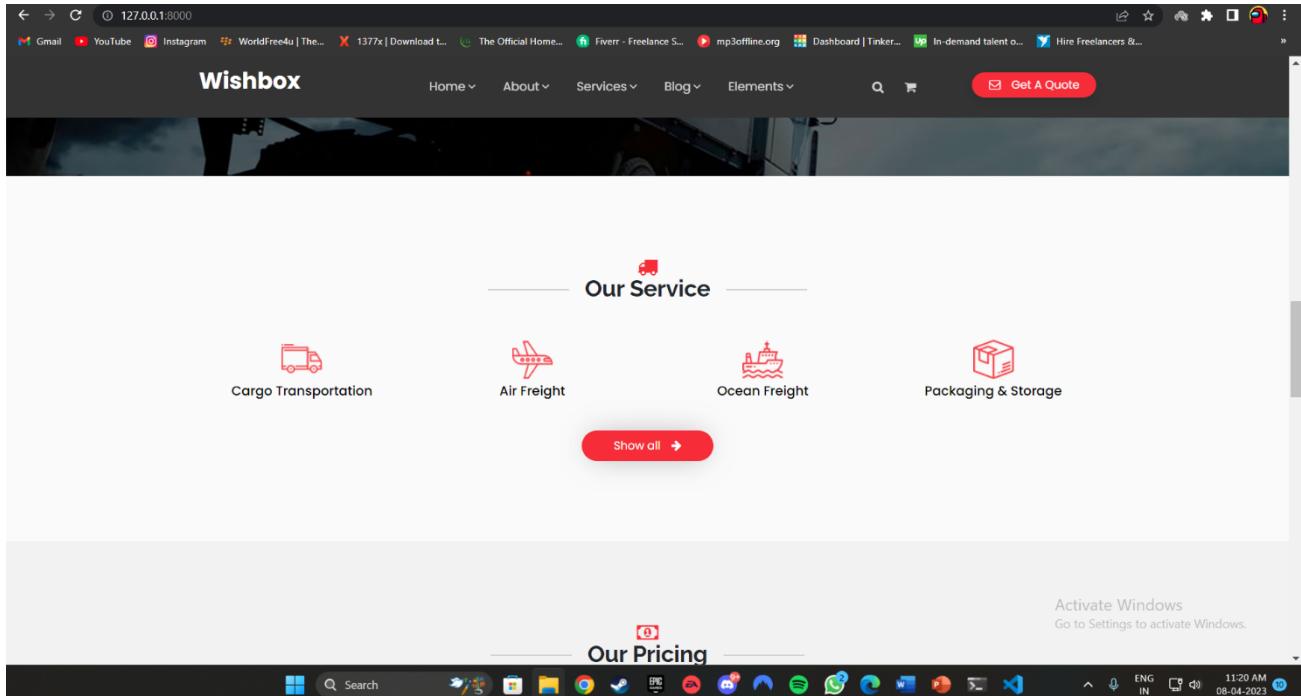


Figure 6.3.5 Service Page

## Pricing Page

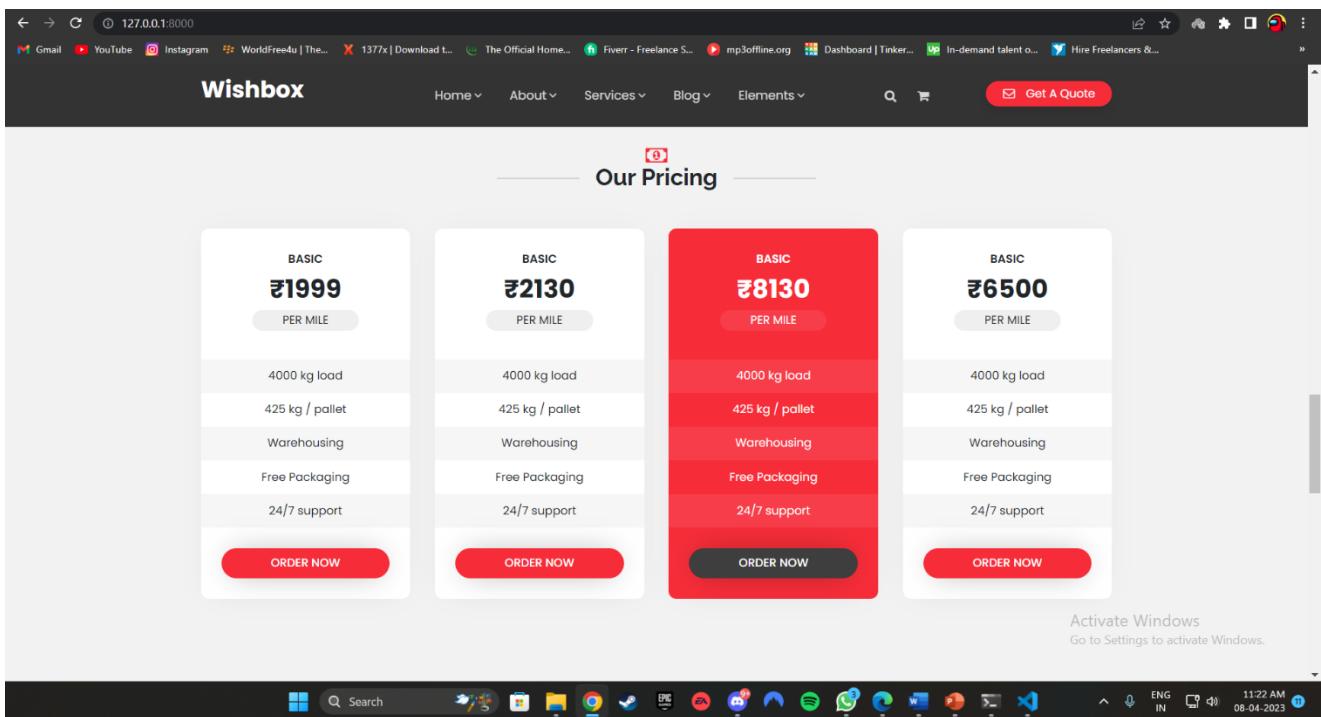


Figure 6.3.6 Pricing Page

## Blogs Page

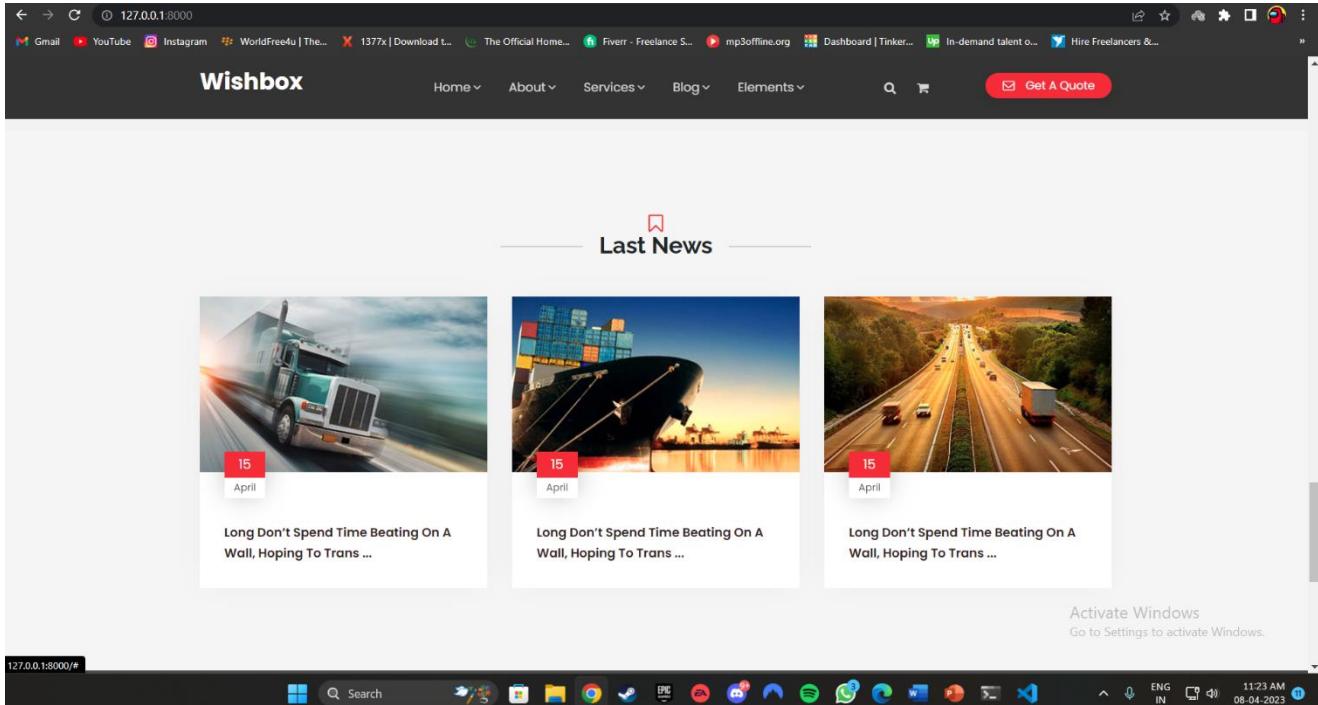


Figure 6.3.7 Blogs Page

## Cart page

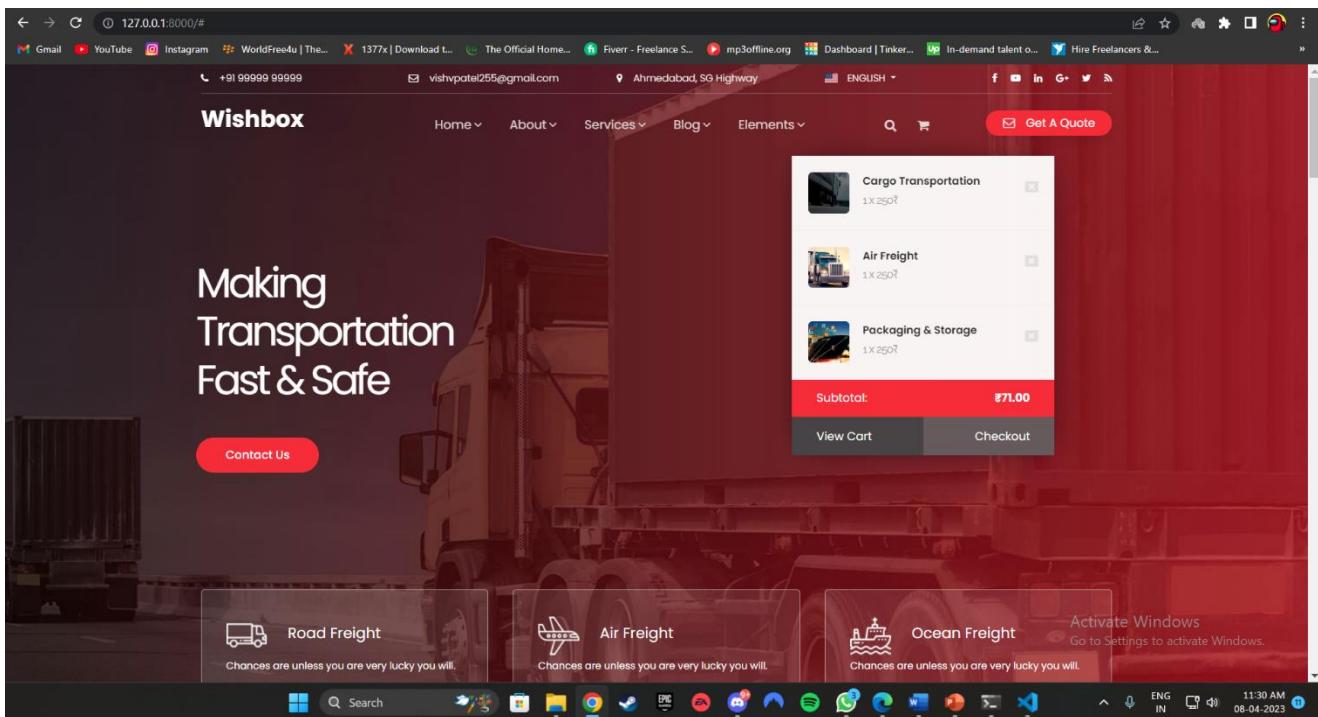


Figure 6.3.8 Cart Page

## Quote page

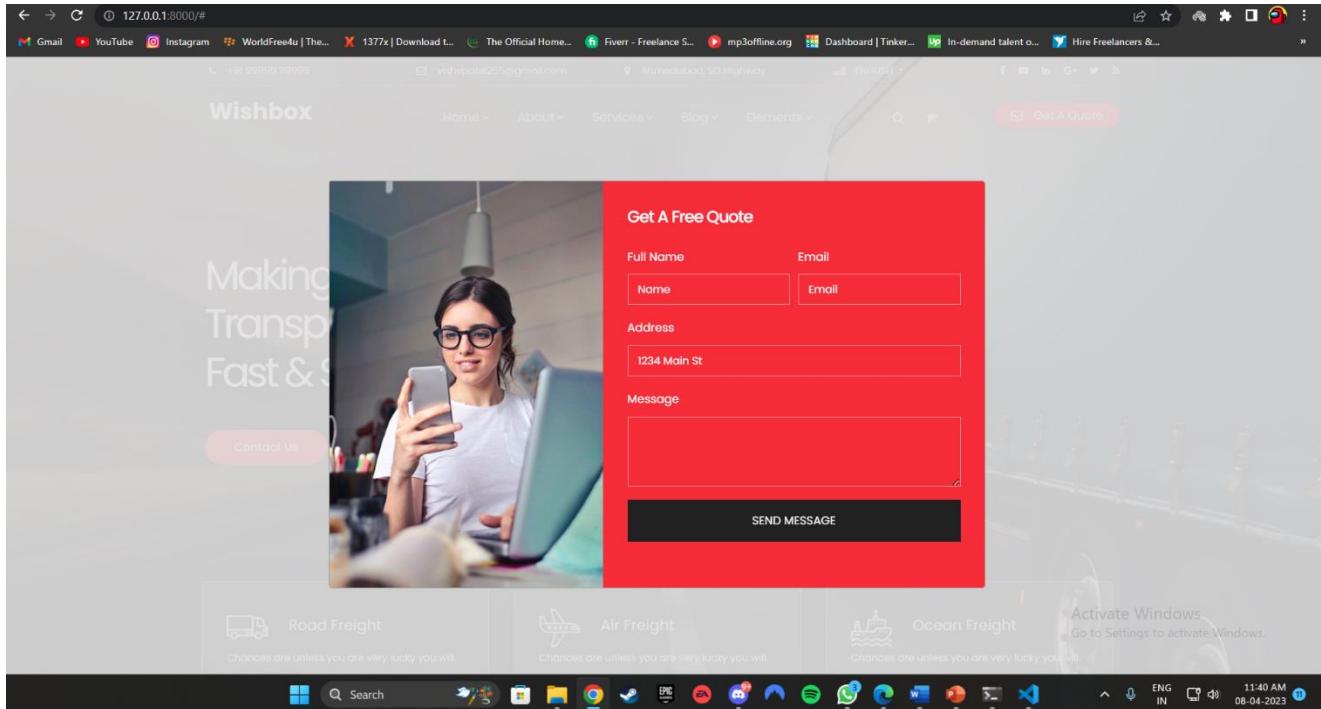


Figure 6.3.9 Quote Page

## Search Page

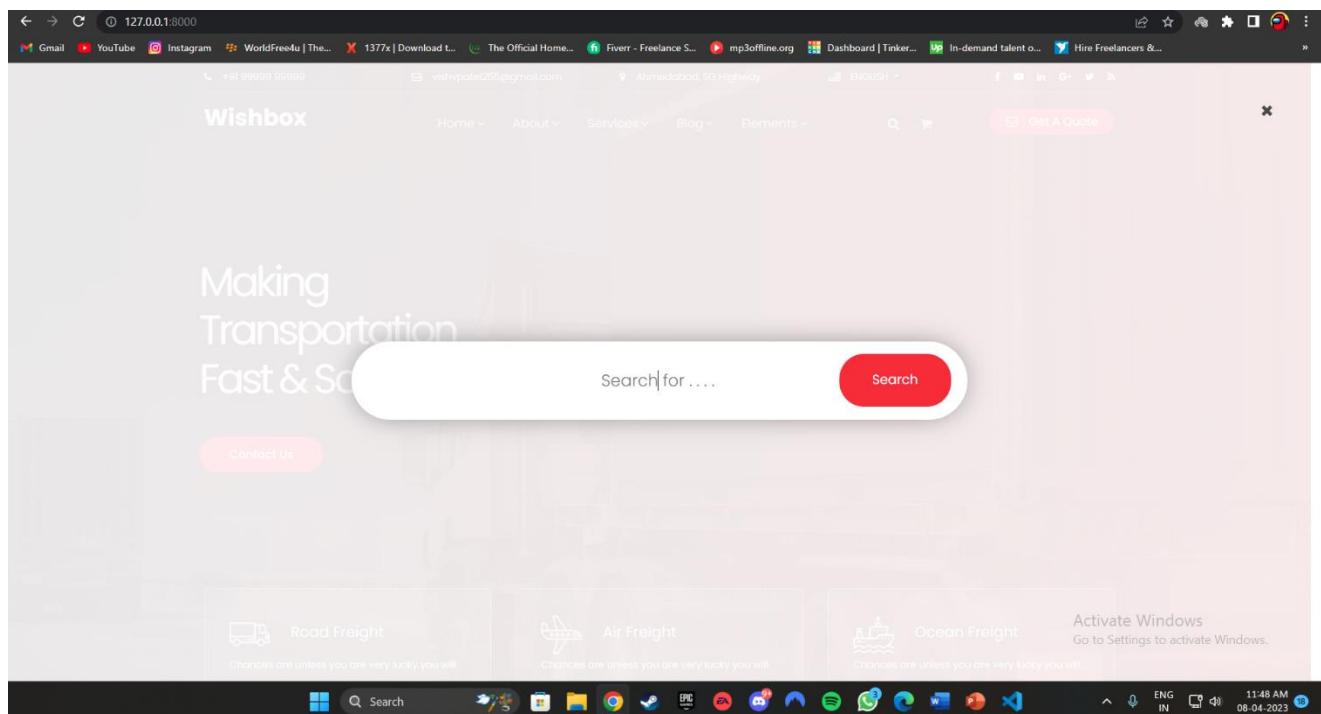


Figure 6.3.10 Search Page

## Testing

### 7.1 WHITE BOX TESTING

Using the white-box testing techniques, a software engineer can design test case that:

- Exercise independent paths within a module or unit.
- Exercise logical decisions on both their true and false side.
- Execute loops at their boundaries and within their operational bounds.
- Exercise internal data structures to ensure their validity.

### 7.2 UNIT TESTING

Code is written by people, and we make mistakes. Bugs to prevent us from shipping bugs to our users, we test our software to verify that it works as it should. Java developers have learned that not all testing is created equal. In addition to traditional functional testing, many shops are adopting developer testing techniques such as unit testing. These leading craftsmen create specific, automated tests to verify the accuracy and function of code while it's being written - or even before it's written - because they want to catch bugs early. Better still, new tools and processes make unit testing even more attractive to Java developers.

## 7.3 INTEGRATION TESTING

Once unit tested components are delivered we then integrate them together. These “integrated” components are tested to weed out errors and bugs caused due to the integration. This is a very important step in the Software Development Life Cycle.

It is possible that different programmers developed different components. A lot of bugs emerge during the integration step. In most cases a dedicated testing team focuses on Integration Testing .

### Prerequisites for Integration Testing:

Before we begin Integration Testing it is important that all the components have been successfully unit tested.

### Integration Testing Steps:

Integration Testing typically involves the following Steps:

- Step 1: Create a Test Plan.
- Step 2: Create Test Cases and Test Data.
- Step 3: If applicable create scripts to run test cases.
- Step 4: Once the components have been integrated execute the test cases.
- Step 5: Fix the bugs if any and re test the code.
- Step 6: Repeat the test cycle until the components have been successfully integrated.

## 7.4 SYSTEM TESTING

### The prerequisites for System Testing are:

- All the components should have been successfully Unit Tested.
- All the components should have been successfully integrated and Integration.
- Testing should be completed.
- An Environment closely resembling the production environment should be created.

- When necessary, several iterations of System Testing are done in multiple environments.

### **Steps needed to do System Testing:**

The following steps are important to perform System Testing:

- Step 1: Create a System Test Plan.
- Step 2: Create Test Cases.
- Step 3: Carefully Build Data used as Input for System Testing.
- Step 3: If applicable create scripts to
  - Build environment and
  - to automate Execution of test cases
- Step 4: Execute the test cases.
- Step 5: Fix the bugs if any and re test the code.
- Step 6: Repeat the test cycle as necessary.

## **7.5 BLACK BOX TESTING**

Black box testing takes an external perspective of the test object to derive test cases. These tests can be functional or non-functional, though usually functional. The test designer selects valid and invalid input and determines the correct output. There is no knowledge of the test object's internal structure. This method of test design is applicable to all levels of software testing: unit, integration, functional testing, system and acceptance. The higher the level, and hence the bigger and more complex the box, the more one is forced to use black box testing to simplify. While this method can uncover unimplemented parts of the specification, one cannot be sure that all existent paths are tested.

## Conclusion and Discussion

### **8.1 Overall Analysis of Internship**

During the internship first of all they gave the basic knowledge of our languages and then they gave the project. In project first of all we have to design the webpages according they have given as per the SRS (Software Requirements Specification) then we have to design the databases for our website. After designing the database, we have to integrate all the webpages with database and lastly, we have to do testing of our website. After completing the project, we have to upload the project to the GitHub.

### **8.2 Problem Encountered and Possible Solutions**

Sometimes the problem occurred that suppose two customers tried to book the same service, same location and same time slot then in the database concurrency problem arises.

So, there would be possible solutions that in our algorithms we have to implement the synchronization methods so by implementing this method the concurrency issues solved.

Another problem that we have to enhanced the distance calculation between the customer and service providers by using the third-party libraries or APIs. As more efficient the calculation of distance more efficient would be assigned the service providers properly.

### **8.3 Conclusion**

According to requirement gathered and the technologies used to realize those requirements are best utilized to achieve that functionality. The WishBox Web Portal gives a platform through which clients and different packing and moving companies can communicate and use the services provided by this portal.

### **8.4 Limitation and Future Enhancement**

#### **Constraints:**

- A System has limit users and surveyor.
- GUI is only in English.
- Application and forma is not responsible for entries provided may be wrong.
- There is no Payment modes is Provided for the Portal.

## 8.5 Future Scope of The Project

This application can be further used in developing many new applications such as Property broker application. We can listed excellent Wish Box and property brokers of India We can also list Wish Box and other service providers of India according to the city such as, with their head offices or branches which are considered reliable, trustworthy and efficient in providing packing moving and other services.

## References

- <https://www.w3schools.com/html/>
- <https://javascript.info/>
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