

Veer Narmad South Gujarat University, Surat.

**Department of Information and
Communication Technology**

**M.Sc. (Information and Communication Technology)
Programme**

**Project Report
2nd Semester**



**M.Sc. (Information and Communication Technology)
2 Year Course**

Year 2021 – 2022

**Freelancing Systems
[Wedlancer]**

Guided By :

**Dr. Dhaval Joshi
Dr. Shailesh Chaudhari**

Submitted By :

**Vivek G.Maniyar(R21110018000710021)
Manan K. Patel (R21110018000710031)
Raj V. Sojitra (R21110018000710045)**

Department of Information and Communication Technology

Veer Narmad South Gujarat University, Surat.

Department of Information and Communication Technology

M.Sc. (Information and Communication Technology) Programme

Certificate

This is to certify that Mr. **Maniyar Vivek Ghanshyamkumar** with Exam Seat Number: **2021018641** and Enrollment Number: **R21110018000710021** has worked on his part time project work entitled **Wedlancer** as a partial fulfillment of the requirements for 2nd ***Semester - M.Sc. (Information and Communication Technology)***, during the academic Year 2021-2022.

Date :

Place : Dept. of ICT, VNSGU, Surat.

**Internal Project Guide
M.Sc.(I.C.T.) 2nd Semester
Department of I.C.T.
Veer Narmad South Gujarat
University, Surat**

**Course Coordinator
M.Sc. (I.C.T.) Programme
Department of I.C.T.
Veer Narmad South Gujarat
University, Surat**

**Head of the Department
Department of I.C.T.
Veer Narmad South Gujarat
University, Surat**

Veer Narmad South Gujarat University, Surat.

Department of Information and Communication Technology

M.Sc. (Information and Communication Technology) Programme

Certificate

This is to certify that Mr. **Sojitra Raj Vinodbhai** with Exam Seat Number: **2021018665** and Enrollment Number: **R21110018000710045** has worked on his part time project work entitled **Wedlancer** as a partial fulfillment of the requirements for 2nd ***Semester - M.Sc. (Information and Communication Technology)***, during the academic Year 2021-2022.

Date :

Place : Dept. of ICT, VNSGU, Surat.

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University, Surat**

Veer Narmad South Gujarat University, Surat.

Department of Information and Communication Technology

M.Sc. (Information and Communication Technology) Programme

Certificate

This is to certify that Mr. **Patel Manan Ketankumar** with Exam Seat Number: **2021018651** and Enrollment Number: **R21110018000710031** has worked on his part time project work entitled **Wedlancer** as a partial fulfillment of the requirements for 2nd ***Semester - M.Sc. (Information and Communication Technology)***, during the academic Year 2021-2022.

Date :

Place : Dept. of ICT, VNSGU, Surat.

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**Head of the Department
Department of I.C.T.
Veer Narmad South Gujarat
University, Surat**

ACKNOWLEDGEMENT

It was an educational phase while studying at the M.Sc. (ICT) working with highly devoted computer teacher's community and will probably remain the most memorable experience of my life. Hence this acknowledgement out is a humble attempt to thank earnestly all those who were directly or indirectly involved in my project work and were of immense help to me.

We take rather special privilege of thanking to our project guides **Dr.Dhaval Joshi & Dr.Shailesh Chaudhari** including all the faculties for making the resources available within the institute for the project work.

And finally, there was an always will be the love of all the professors. Who have taught us for what are written in this report have been the fruits of experience that they have taught us.

THANKS ALL

**VIVEK G. MANIYAR
RAJ V. SOJITRA
MANAN K. PATEL**

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Wedlancer

1. Introduction

1.1 Introduction:-

- Wedlancer is an online Freelancing platform where wedding photography firm owners can find freelance professionals located across India and hire them for upcoming events/ projects.
- Wedlancer is a platform which brings together freelance professionals and wedding photography firms. Freelancers can showcase their portfolio on their Wedlancer profile and wedding photography firms who are always on the lookout for talented and skilled freelancers can find them on Wedlancer.
- Photography firms can search for freelancers by city, by category etc. based on their requirements. Once your profile is approved on Wedlancer, it will appear in these searches. If a firm sees your profile and likes your portfolio, they can contact you directly to hire you for their upcoming projects / assignments.
- If you are a freelance professional registered on Wedlancer and a firm sees your profile and likes your work, they can directly get in touch with you. Any discussions related to commercials, terms and conditions, data handling, copyrights, usage rights etc. are points of discussions between you and the firm.

1.2 Project Overview:-

Title	Description
Organization	MSc(Information & Communication Technology)
Objective	Making an Application which will help to get leads and orders of photography and videography.
Front End	React-Native, Android
Back End	C#.Net Core
Group Member	3
Group Member Name	VIVEK G. MANIYAR RAJ V. SOJITRA MANAN K. PATEL
Project Duration	45 Days

2. System Overview

2.1 Objective:-

Photography firms can search for freelancers by city, by category etc. based on their requirements. Once your profile is approved on Wedlancer, it will appear in these searches. If a firm sees your profile and likes your portfolio, they can contact you directly to hire you for their upcoming projects/ assignments.

If you are a freelance professional registered on Wedlancer and a firm sees your profile and likes your work, they can directly get in touch with you. Any discussions related to commercials, terms and conditions, data handling, copyrights, usage rights etc. are points of discussions between you and the firm

Wedlancer

2.2 Benefits:-

Wedlancer is a platform which brings together freelance professionals and wedding photography firms. Freelancers can showcase their portfolio on their Wedlancer profile and wedding photography firms who are always on the lookout for talented and skilled freelancers can find them on Wedlancer.

- Provide Best Professionals.
- Can help Increase Engagement.
- Supports targeted activity.
- Get Leads & Bookings.
- Saves Time.

3. System Specification

3.1 Hardware Requirement:-

Client Side
Processor
Recommended: Dual Core or Intel i3 or more..
Operating System
Windows 10, Ubuntu , MacOS or any operating system which supports browsers.
RAM
Recommended: Minimum 4GB

Server Side
Processor
More than 2.0 GHZ
Operating System
Windows server or anything which can manage the server resource.
RAM
Minimum 4GB

3.2 Software Requirement:-

Client Side
Browser
Any compatible browsers like chrome , firefox etc
Operating System
Windows 10, Ubuntu , MacOS or any operating system which supports browsers.

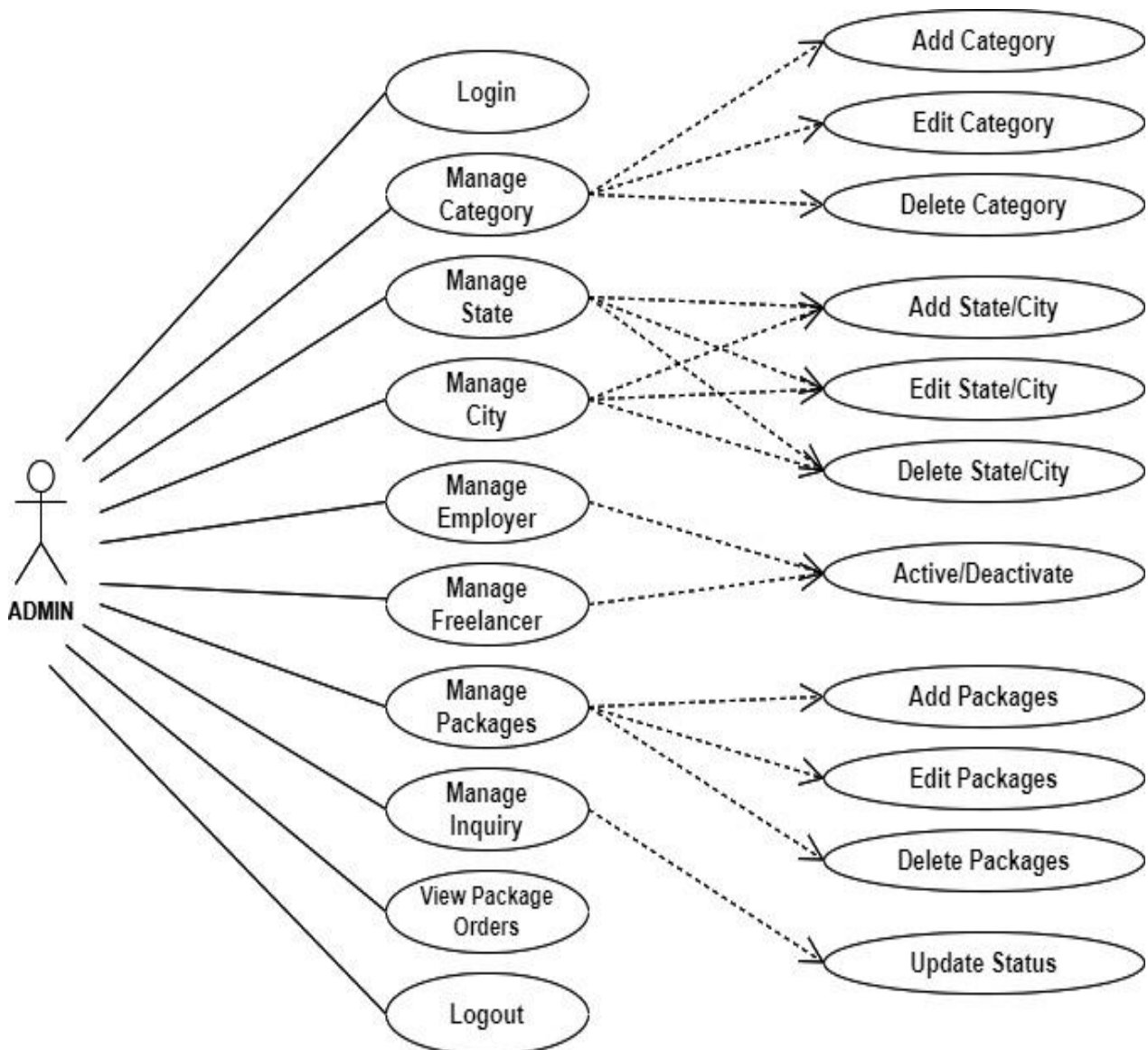
3.3 Development Description:-

Development Description
Software Requirement
<ul style="list-style-type: none">- Visual Studio Code, Visual Studio 2022- Android Studio(Chipmunk)
Operating System
<ul style="list-style-type: none">- Microsoft windows 10
Server Configuration
<ul style="list-style-type: none">- MS SQL Server- Microsoft Azure
Client side
<ul style="list-style-type: none">- Google Chrome , Firefox , Any HTML and CSS supported

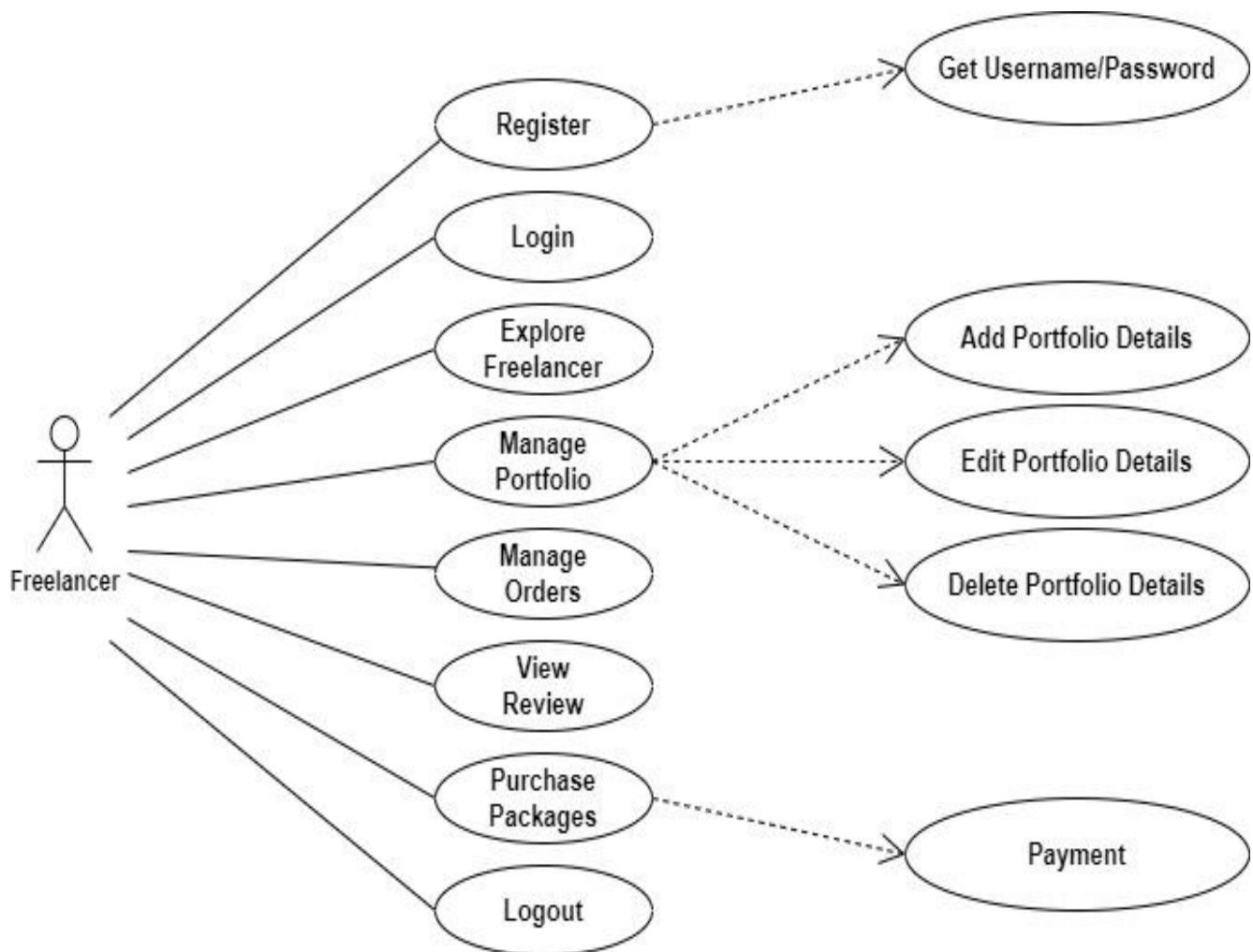
4. Diagram

4.1 Use Case Diagram:-

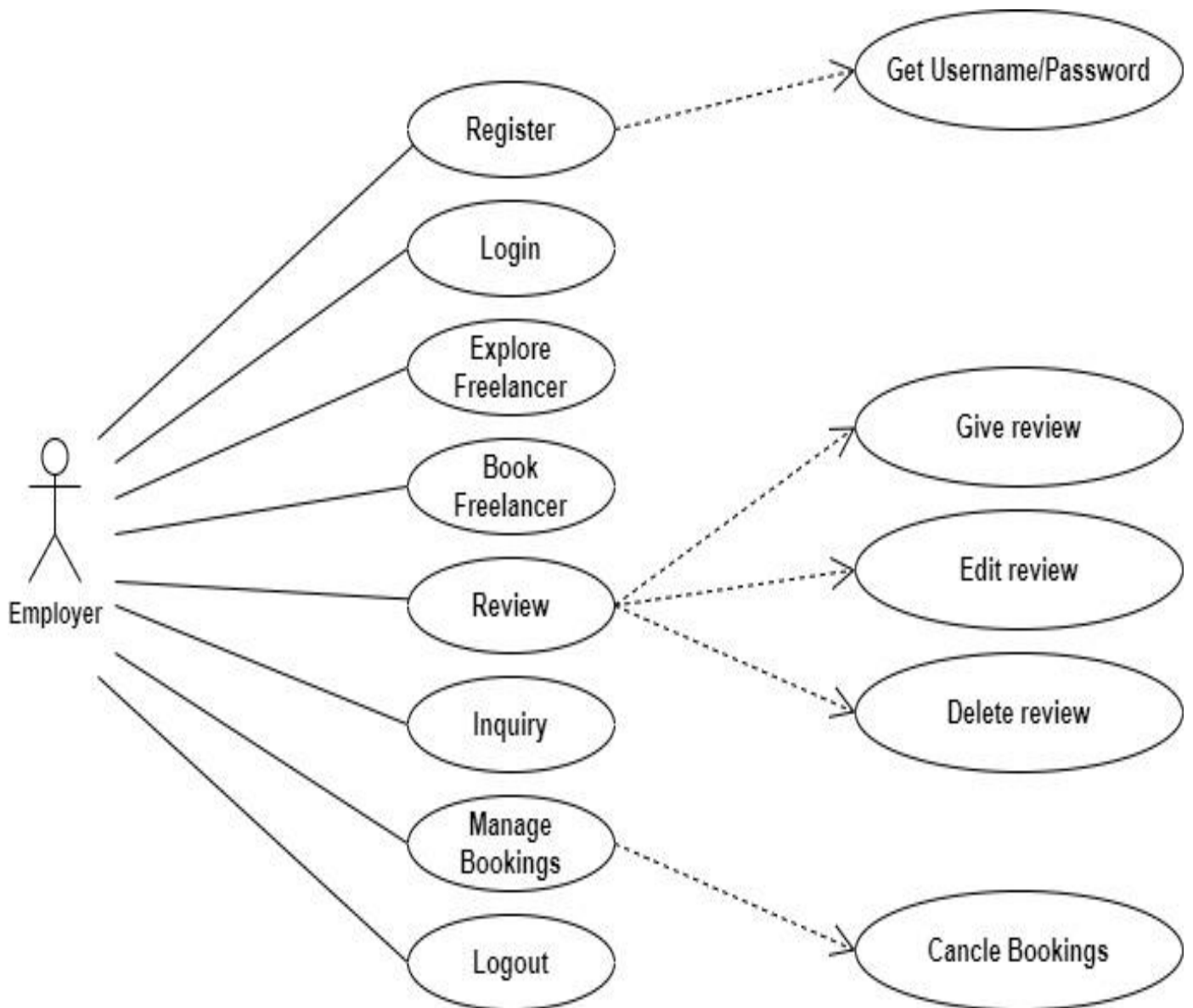
1. Use Case Diagram for Admin:-



2. Use Case Diagram for Freelancer:-

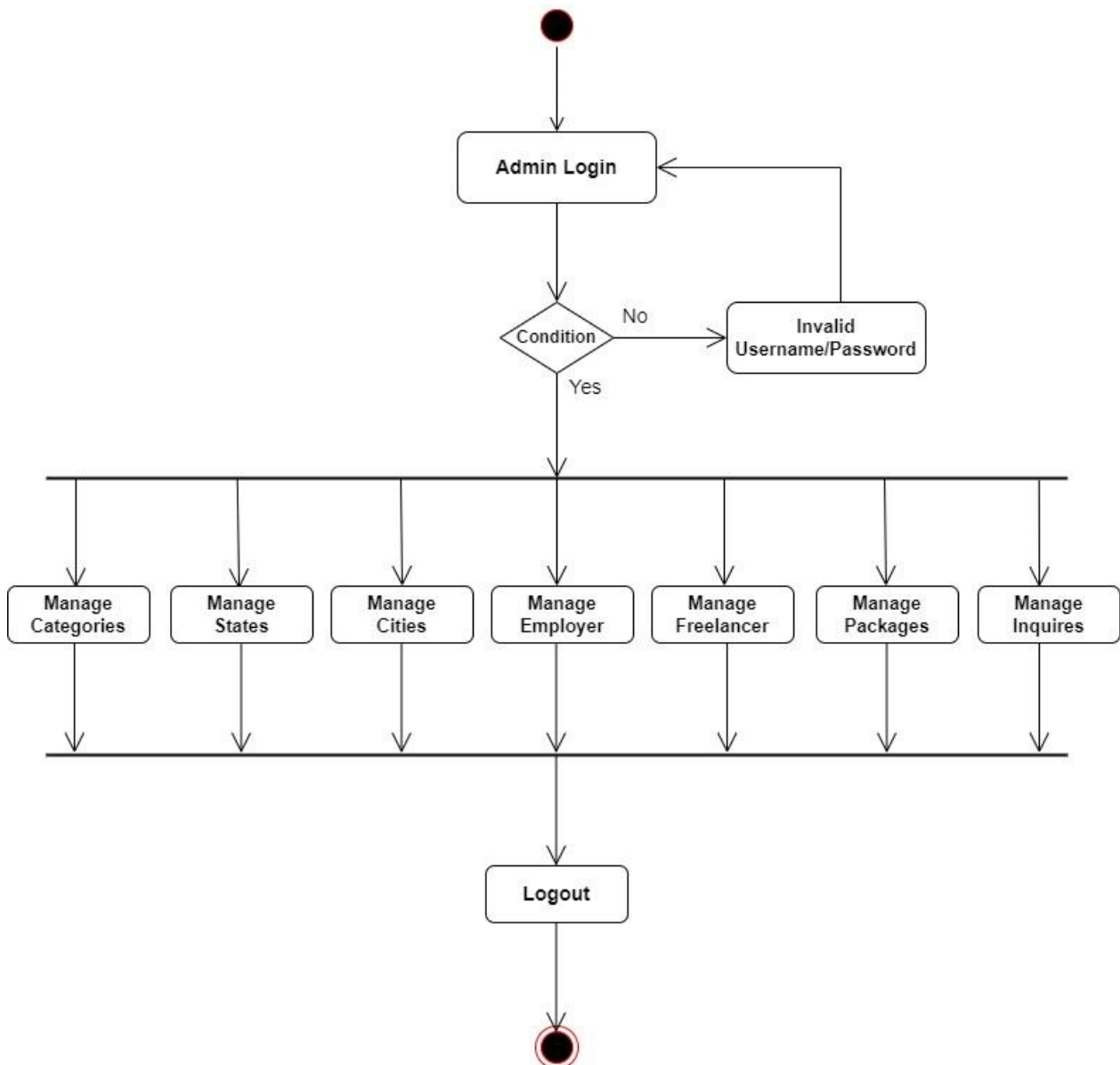


3. Use Case Diagram for Employer:-

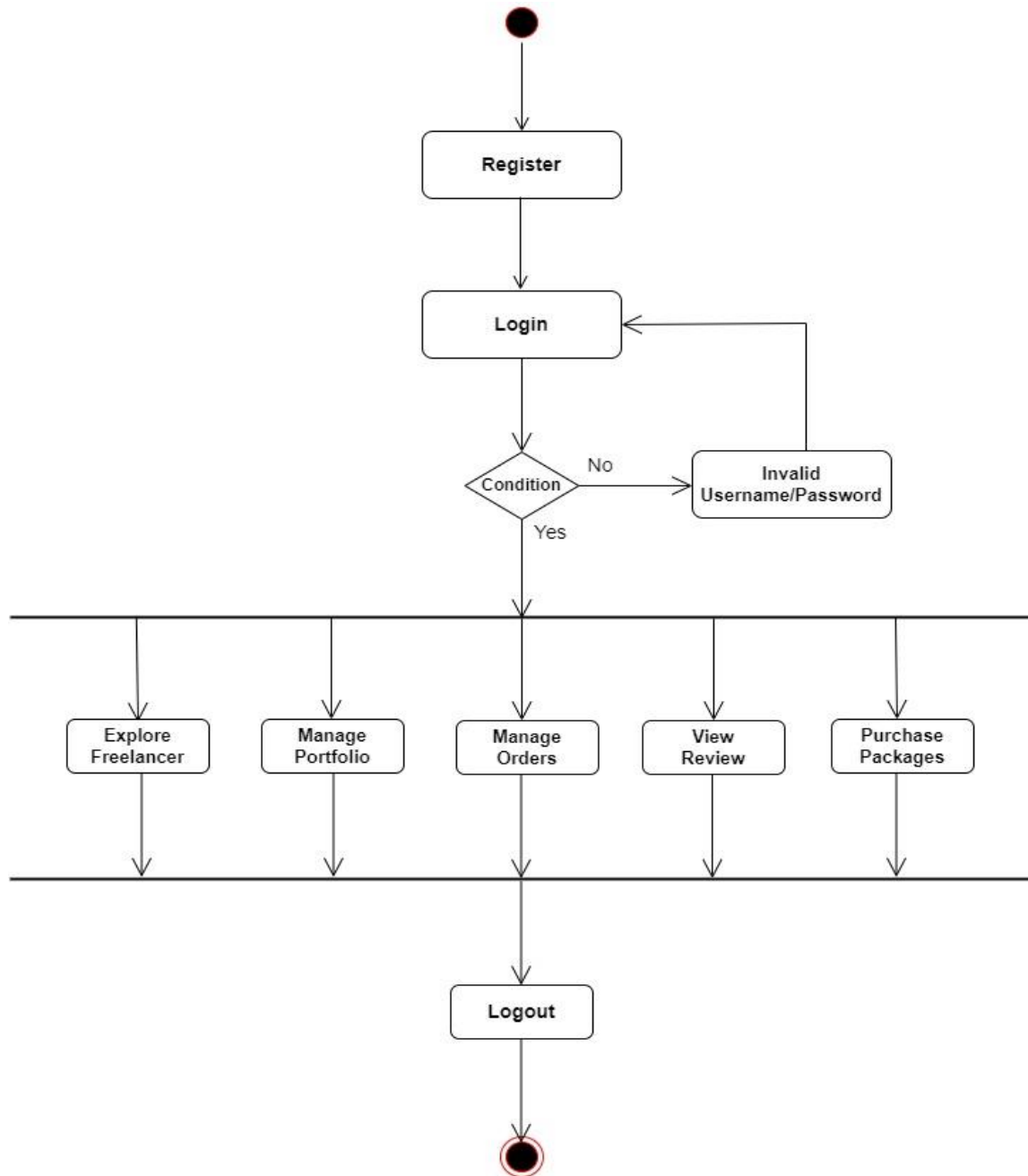


4.2 Activity Diagram:-

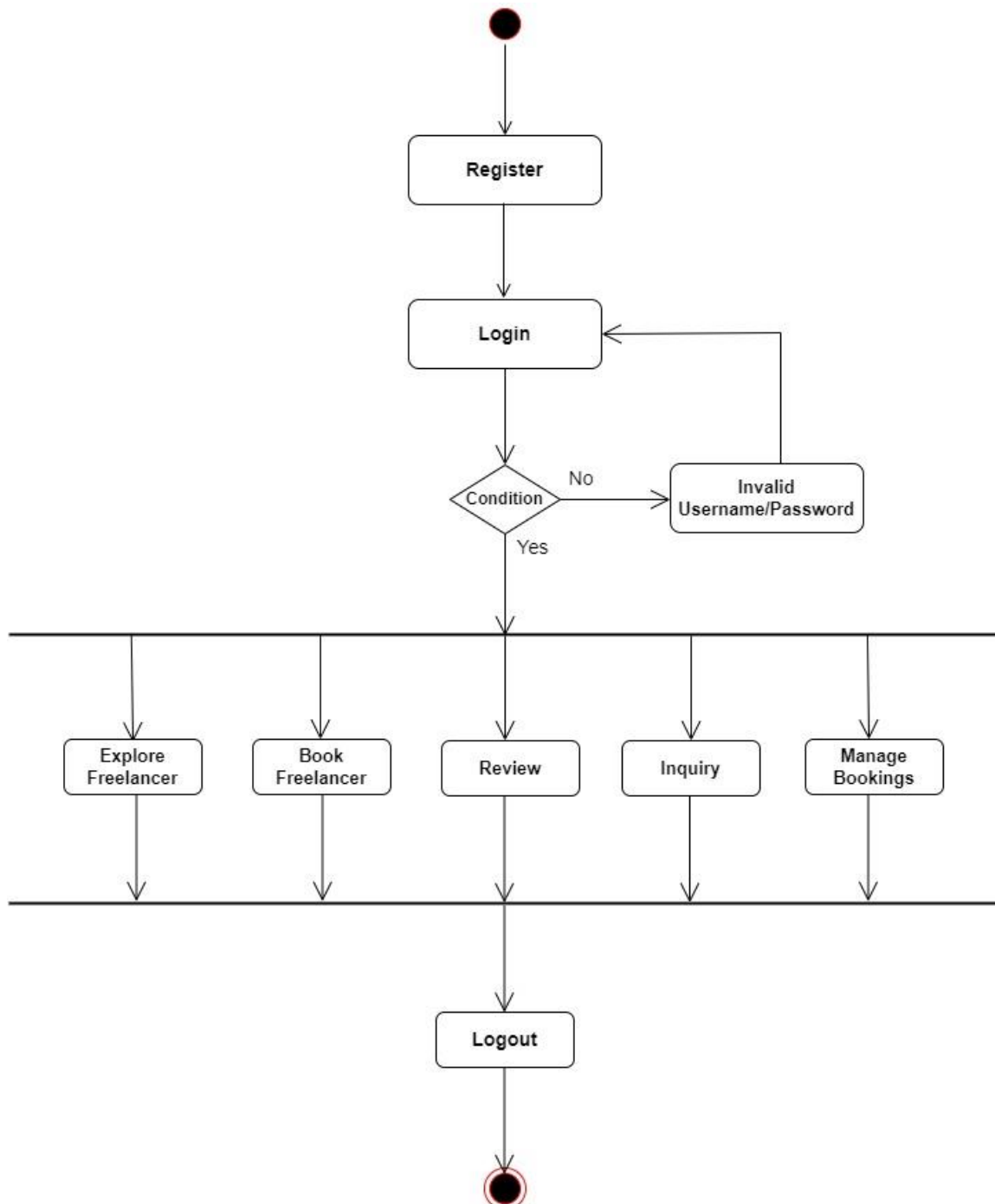
1. Activity Diagram for Admin:-



2. Activity Diagram for Freelancer:-

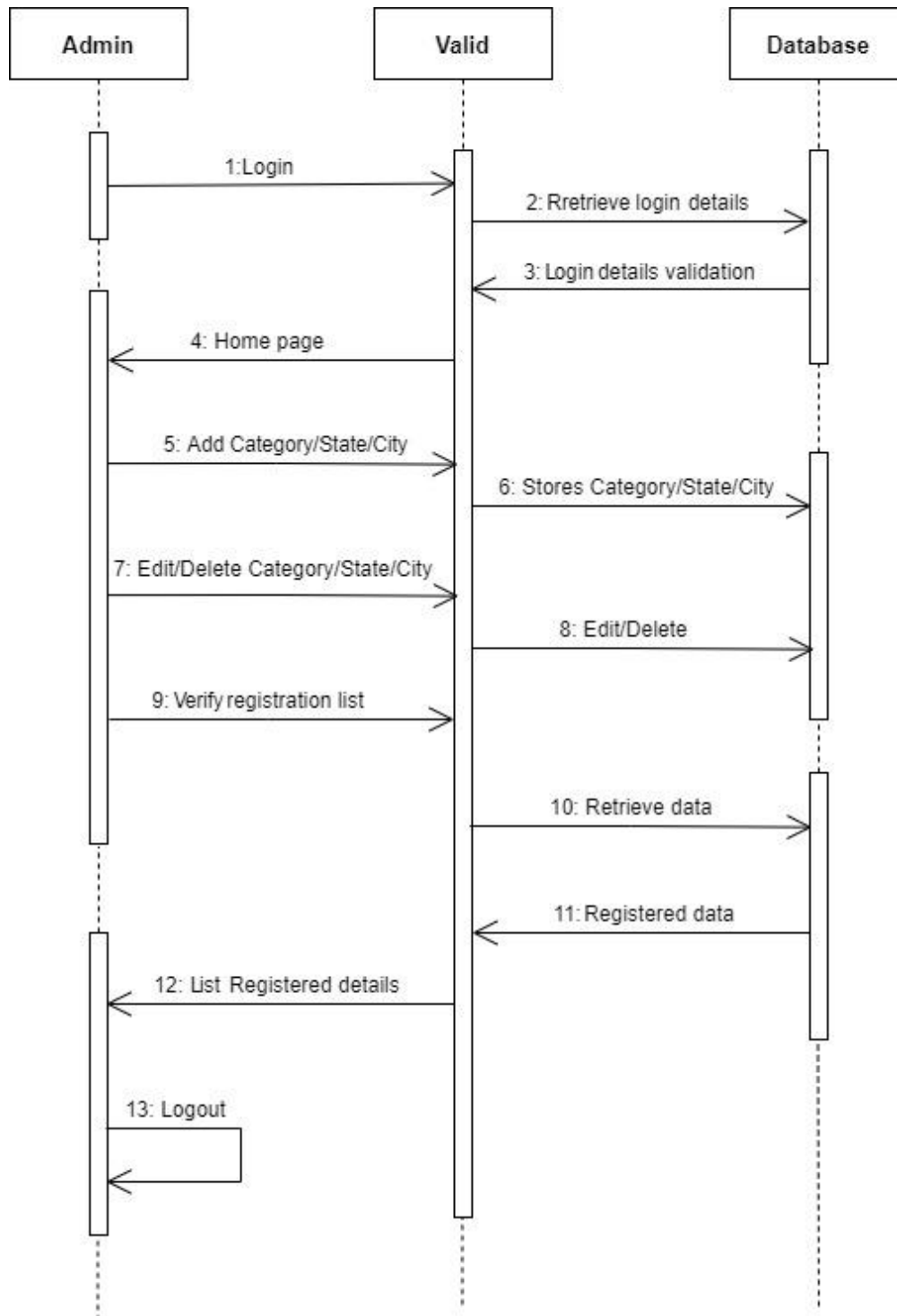


3. Activity Diagram for Employer:-

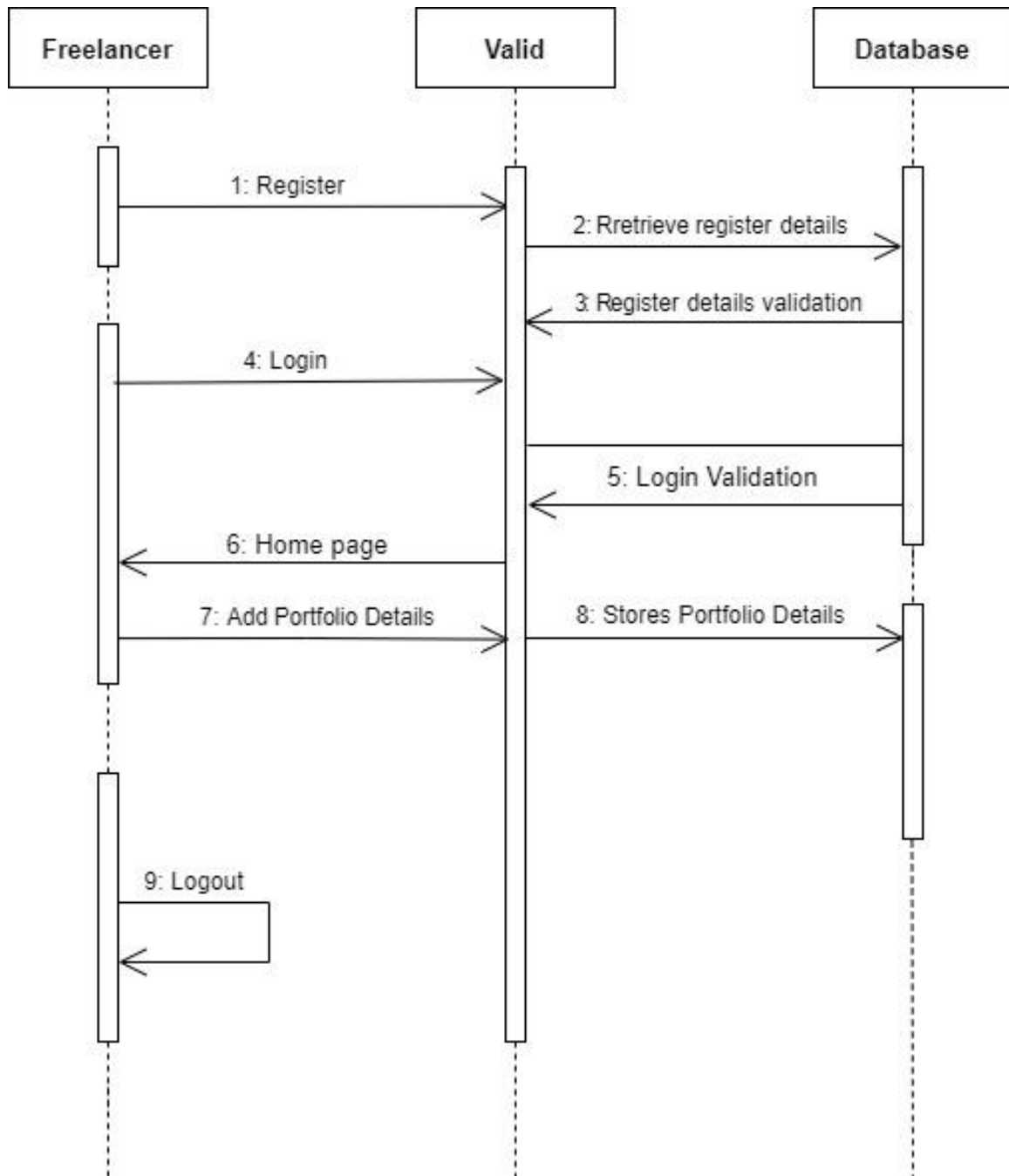


4.3 Sequence Diagram:-

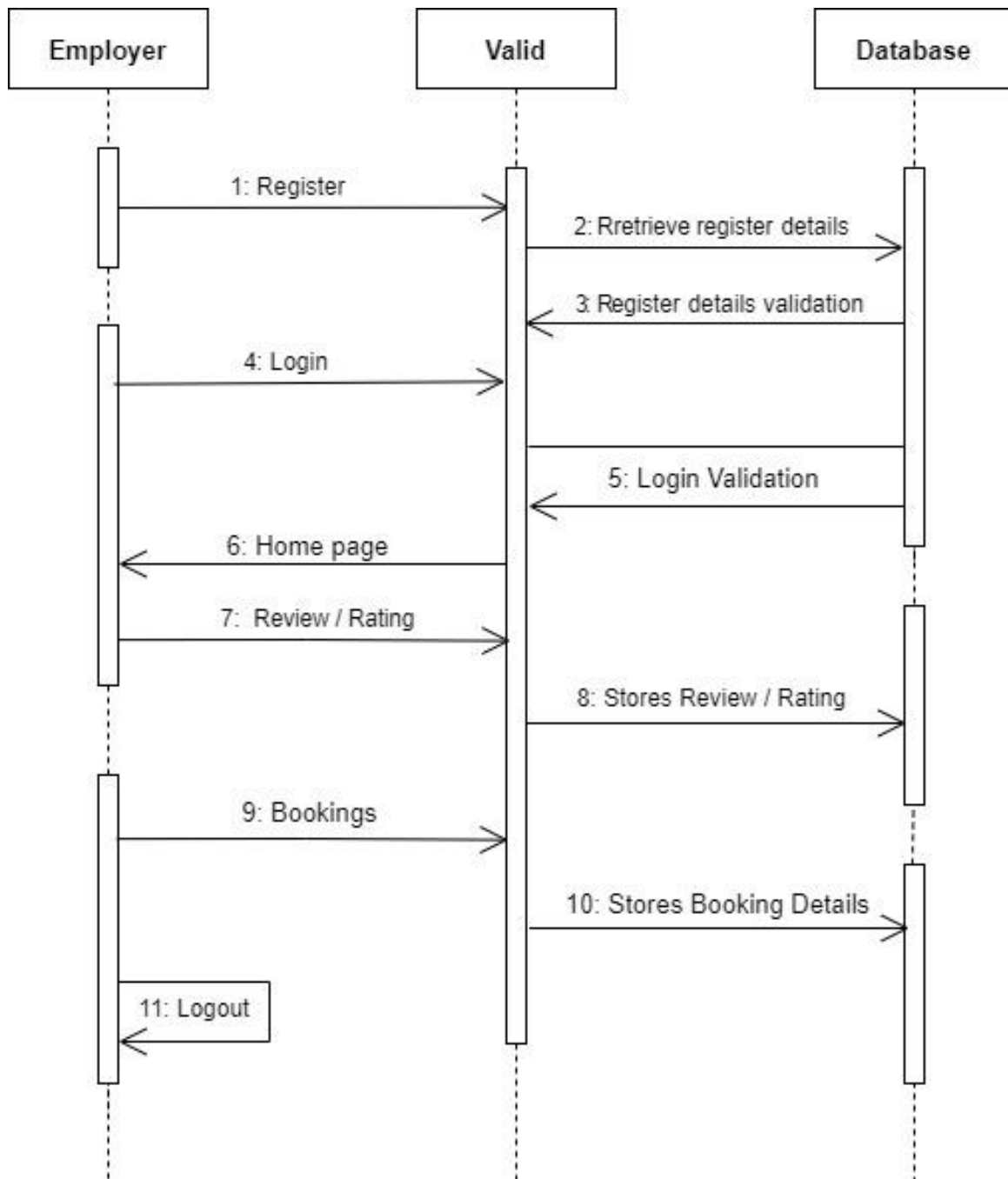
1. Sequence Diagram for Admin:-



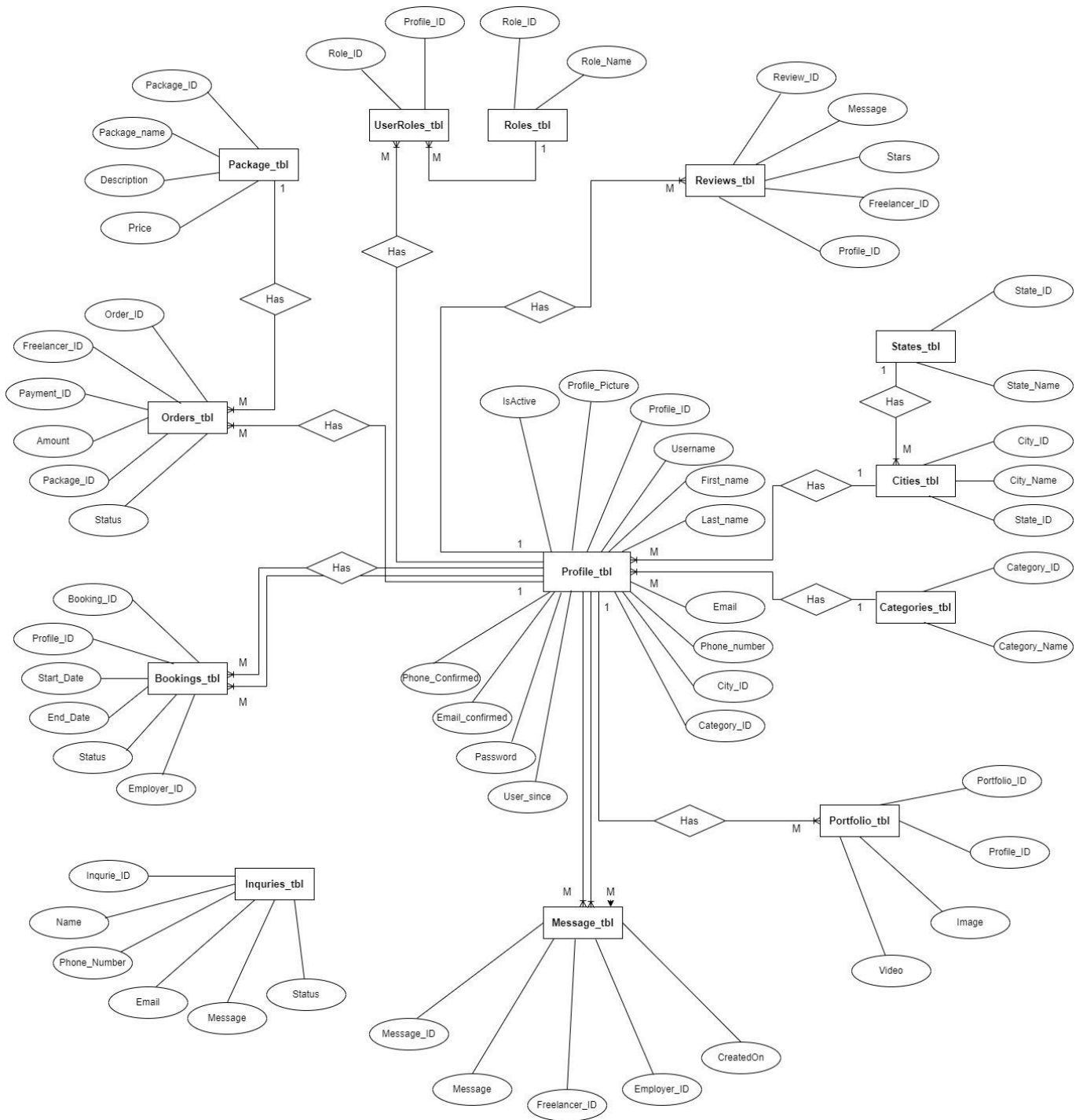
2. Sequence Diagram for Freelancer:-



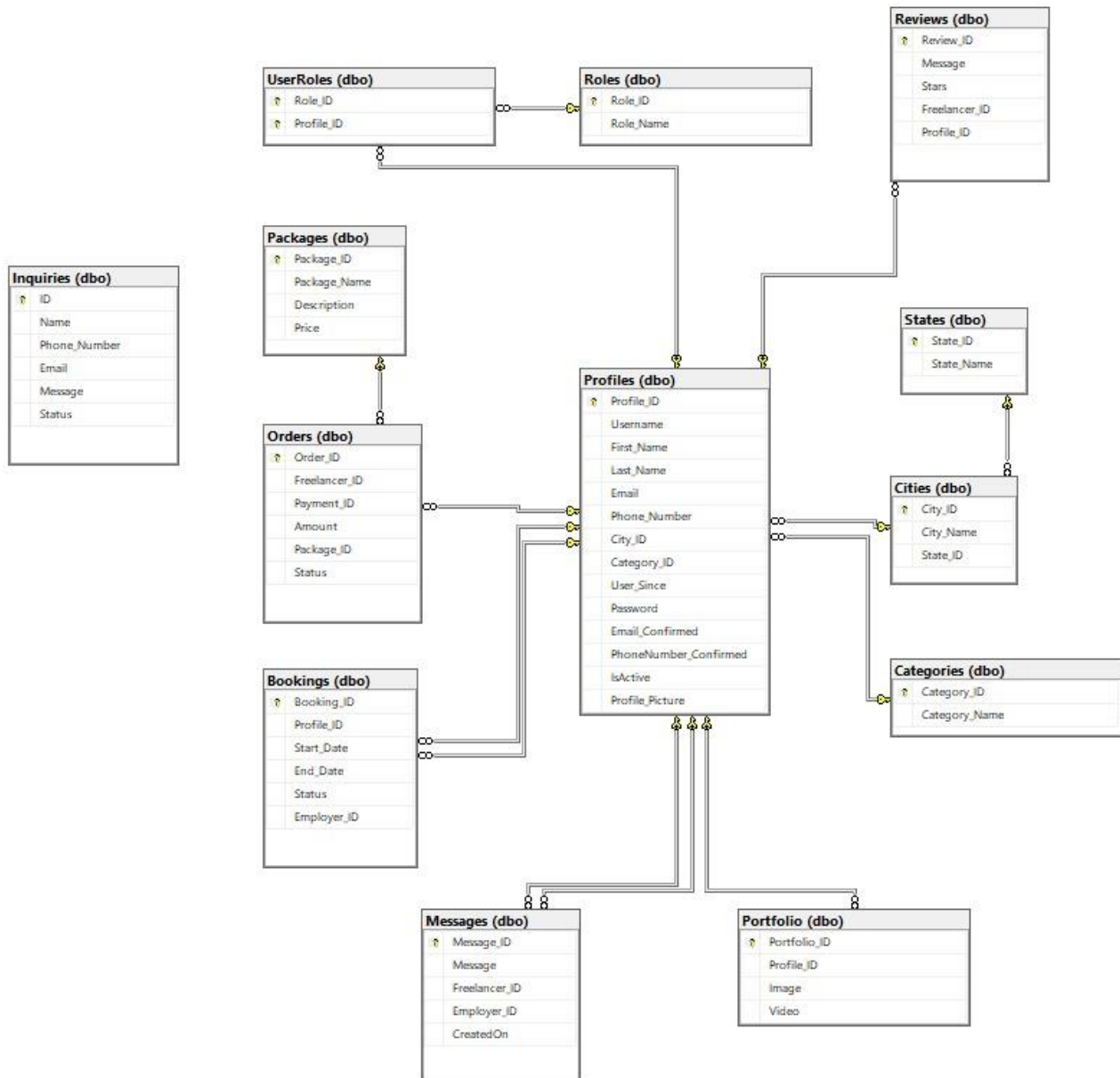
3. Sequence Diagram for Employer:-



4.4 ER (Entity Relationship) Diagram:-



4.5 Class Diagram:-



5. System Design

5.1 Database Design:-

1. Category Table

Field Name	Data type	Constraint
Category_ID	Int	Primary Key –Auto Increment
Category_Name	Varchar(50)	Not null

2. State Table

Field Name	Data type	Constraint
State_ID	Int	Primary Key – Auto Increment
State_Name	Varchar(50)	Not null

3. City Table

Field Name	Data type	Constraint
City_ID	Int	Primary Key –Auto Increment
City_Name	Varchar(50)	Not null
State_ID	Int	Foreign Key

4. Profile Table

Field Name	Data type	Constraint
Profile_ID	Int	Primary Key – Auto Increment
Username	Varchar(50)	Unique Key
First Name	Varchar(50)	Not null
Last Name	Varchar(50)	Not null
Email	Varchar(50)	Not null
Phone Number	Number	Not null
Password	Varchar(MAX)	Not null
User_Since	Text	Not null
EmailConfirmed	Bit	Not null
PhoneNumberConfirmed	Bit	Not null
City_ID	Int	Foreign Key
Role_ID	Int	Foreign Key
Profile_picture	Varchar(MAX)	-

5. Profile_Role Table

Field Name	Data type	Constraint
Profile_ID	Int	Foreign Key
Role_ID	Int	Foreign Key

6. Freelancer_Portfolio Table

Field Name	Data type	Constraint
Portfolio_ID	Int	Primary Key – Auto Increment
Profile_ID	Int	Foreign Key
Category_ID	Int	Foreign Key
Images	Varchar(100)	Null
Videos	Varchar(100)	Null

7. Package Table

Field Name	Data type	Constraint
Package_ID	Int	Primary Key –Auto Increment
Package_Name	Varchar(50)	Not null
Description	Varchar(400)	Not null
Price	Float	Not null

8. Payment Table

Field Name	Data type	Constraint
Payment_ID	Int	Primary Key –Auto Increment
Amount	Float	Not null
Profile_ID	Int	Foreign Key
Status	Varchar(15)	Not null

9. Role Table

Field Name	Data type	Constraint
Role_ID	Int	Primary Key –Auto Increment
Role_Name	Varchar(50)	Not null

Wedlancer

10. Freelancer_Inquiry Table

Field Name	Data type	Constraint
Inquiry_ID	Int	Primary Key –Auto Increment
FreeLancer_ID	Int	Foreign Key
Profile_ID	Int	Foreign Key
Status	Varchar(15)	Not null

11. Review Table

Field Name	Data type	Constraint
Review_ID	Int	Primary Key –Auto Increment
Profile_ID	Int	Foreign Key
Text	Varchar(50)	Not null
Star	Varchar(5)	Not null

12. Order Table

Field Name	Data type	Constraint
Order_ID	Int	Primary Key –Auto Increment
Profile_ID	Int	Foreign Key
Payment_ID	Int	Foreign Key
Package_ID	Int	Foreign Key
Status	Varchar(15)	Not null

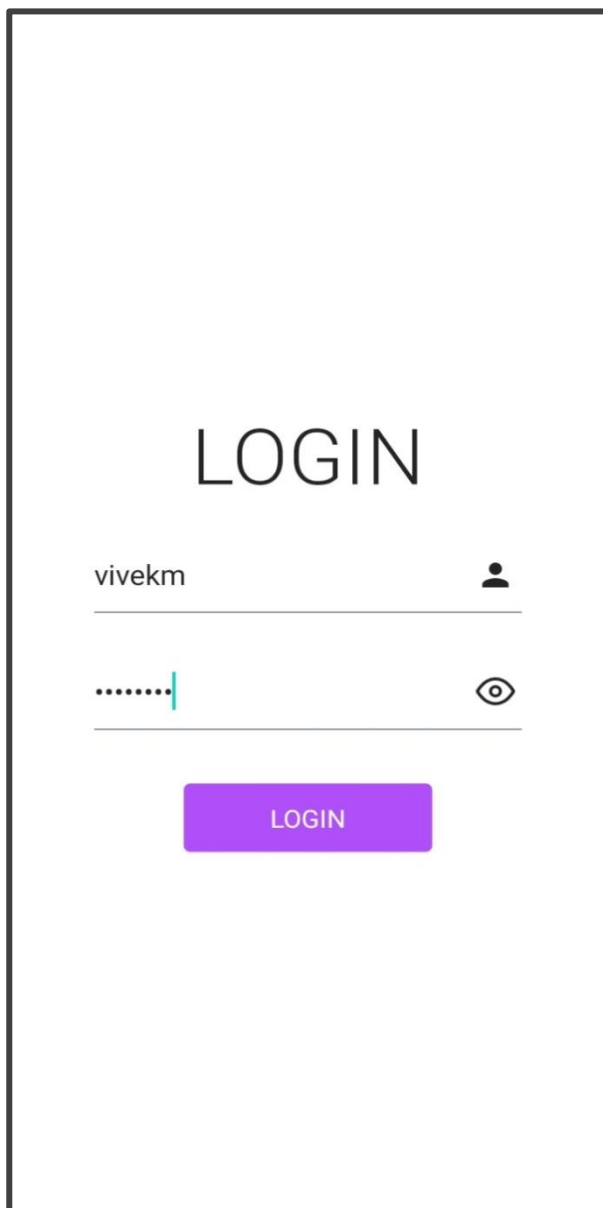
13. ContactUs Table

Field Name	Data type	Constraint
Contactus_ID	Int	Primary Key –Auto Increment
Name	Varchar(50)	Not null
Phone Number	Number	Not null
Email	Varchar(50)	Not null
Message	Varchar(100)	Not null
Status	Varchar(15)	Not null

5.2 Interface Design

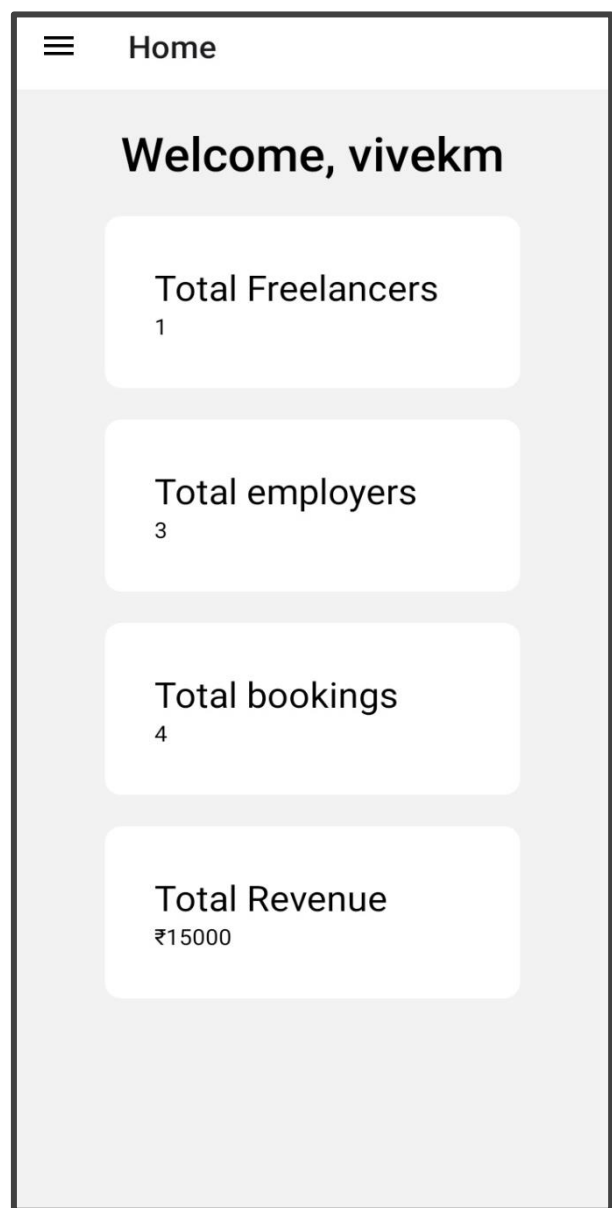
Admin Side

Admin Login



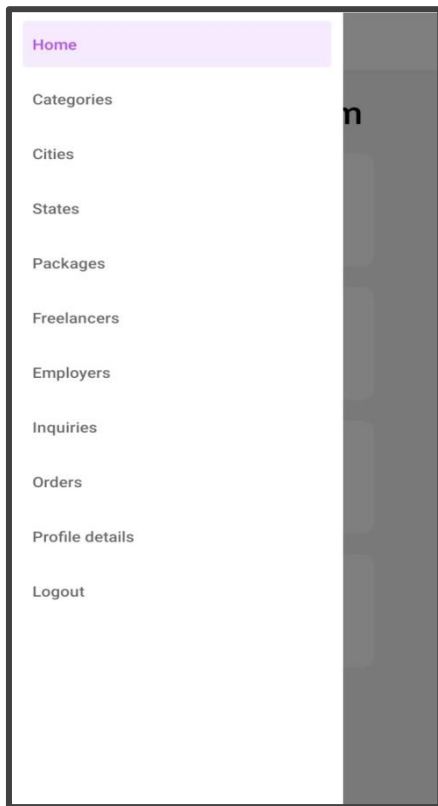
The Admin Login interface features a large 'LOGIN' title at the top. Below it, there are two input fields: the first contains the username 'vivekm' and is accompanied by a user icon; the second contains a masked password '.....' and is accompanied by an eye icon for toggling visibility. A purple 'LOGIN' button is positioned at the bottom of the form.

Admin Dashboard

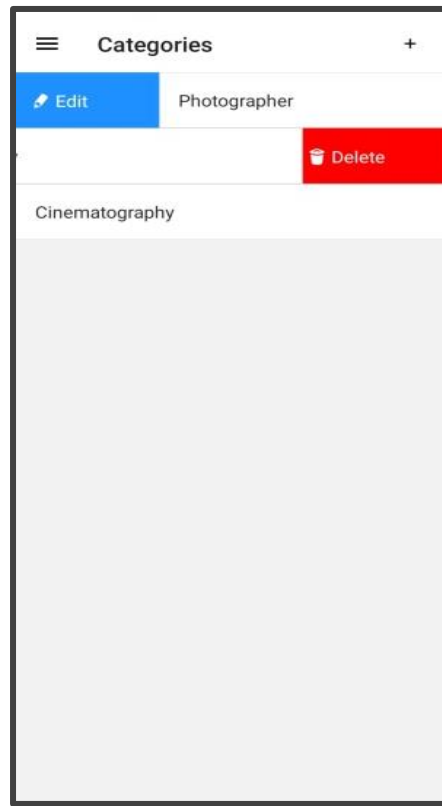


The Admin Dashboard interface has a top navigation bar with a hamburger menu icon and the text 'Home'. Below this, a 'Welcome, vivekm' message is displayed. The main content area contains four white cards with rounded corners, each showing a different metric: 'Total Freelancers' with a value of 1, 'Total employers' with a value of 3, 'Total bookings' with a value of 4, and 'Total Revenue' with a value of ₹15000.

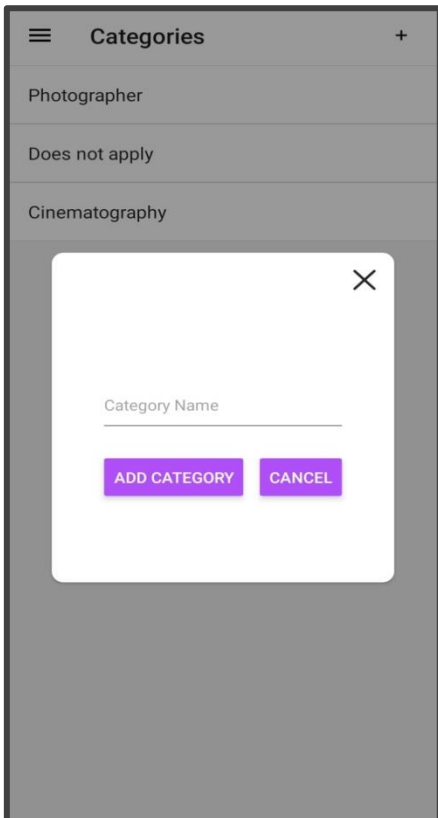
Admin Menu



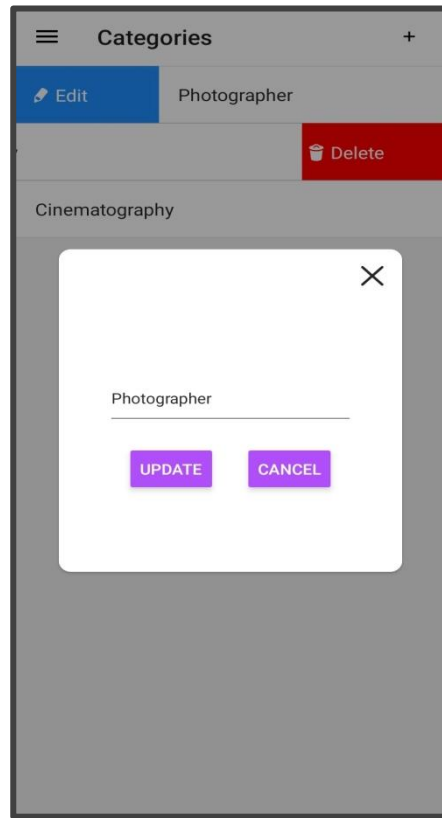
Admin Categories



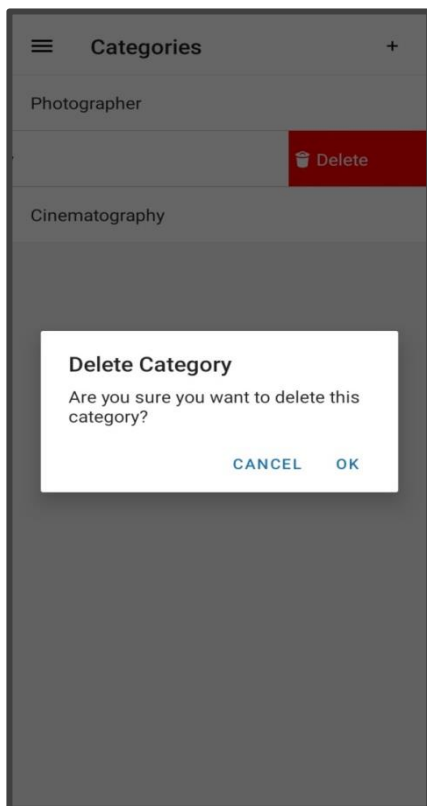
Add Categories



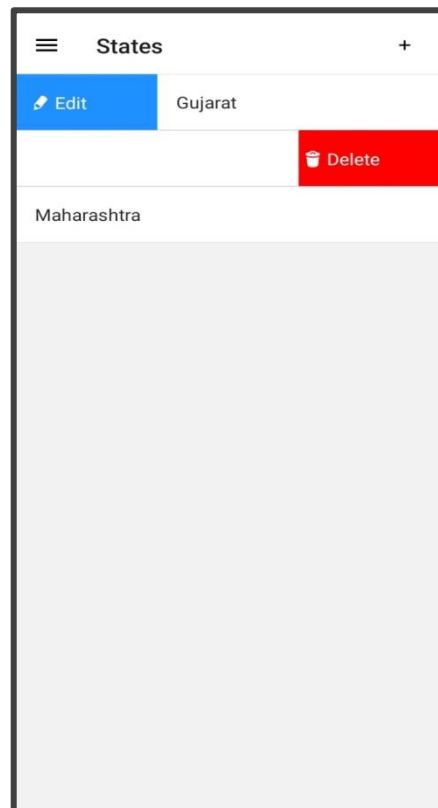
Edit Categories



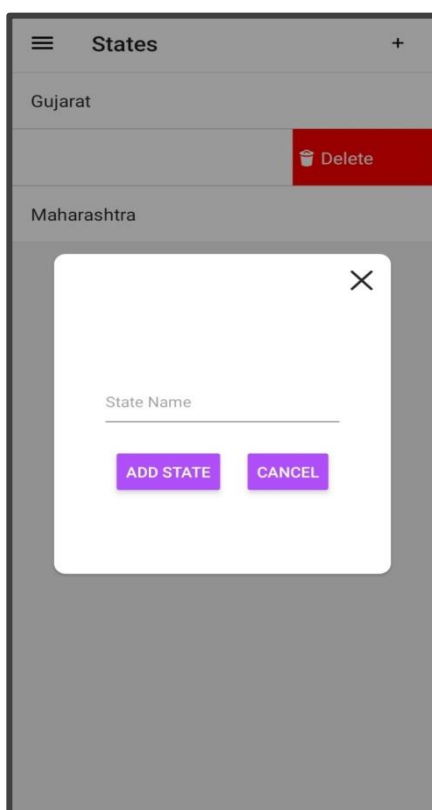
Delete Categories



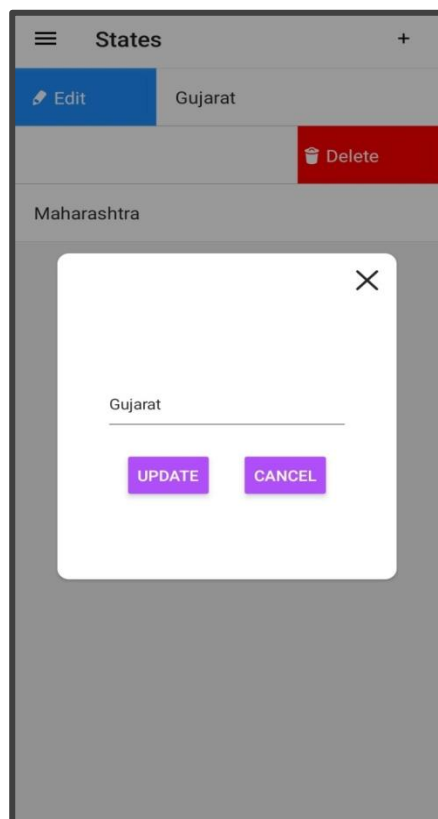
Admin States



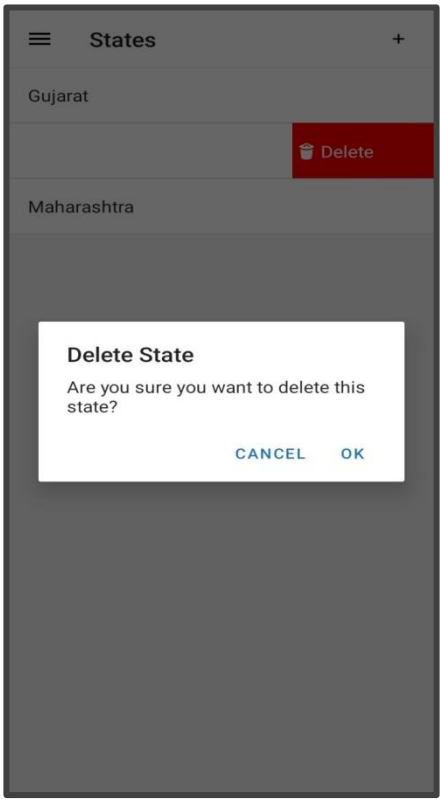
Admin Add States



Admin Edit States



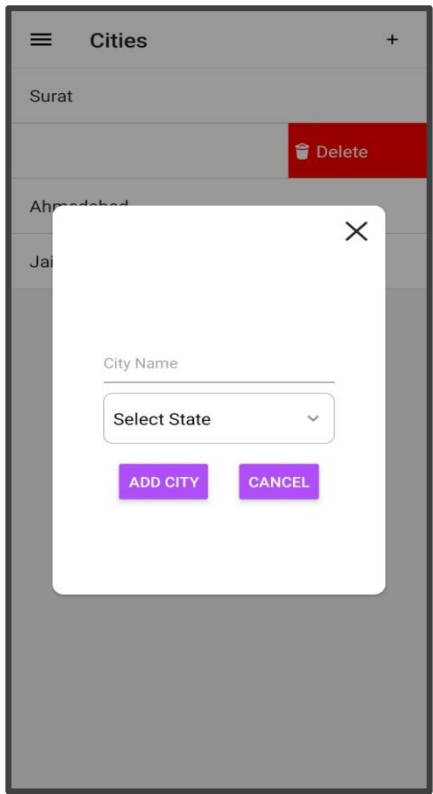
Admin Delete States



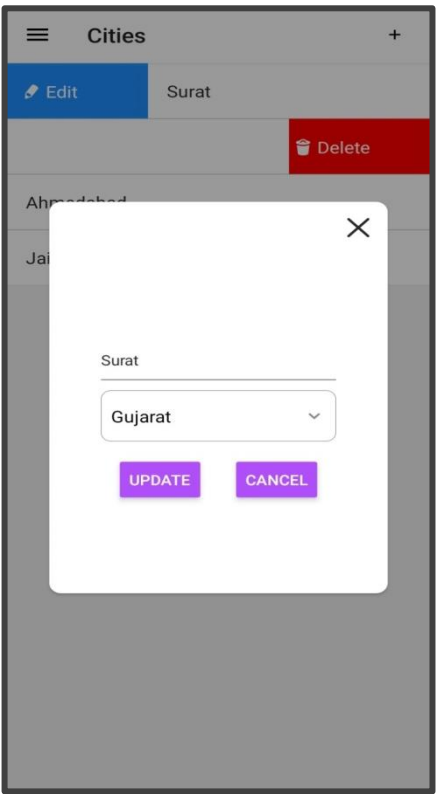
Admin Cities



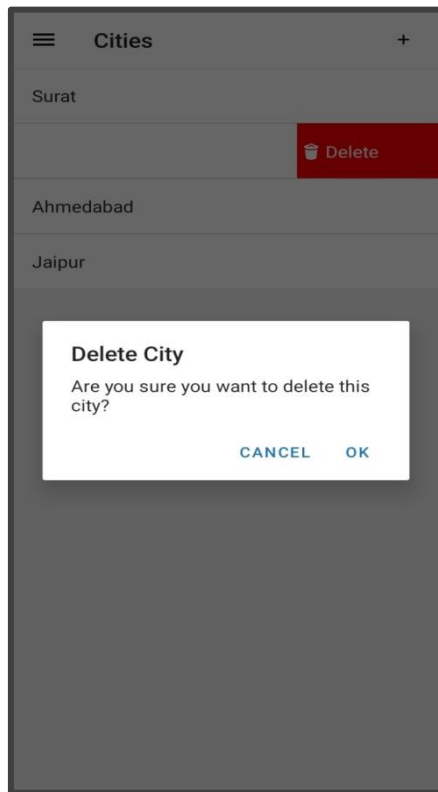
Admin Add Cities



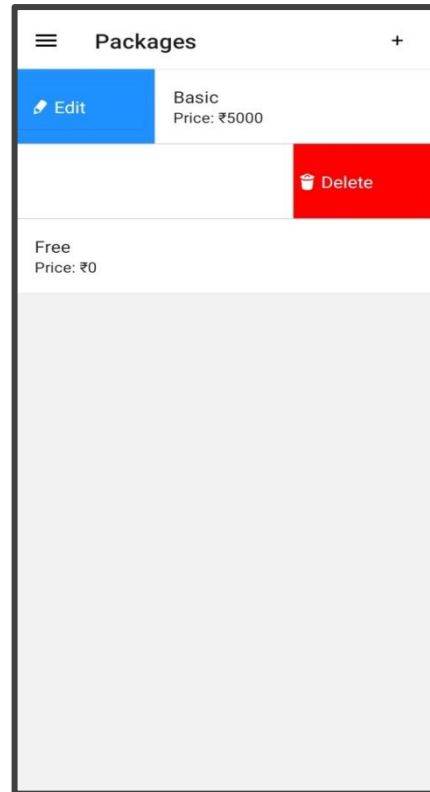
Admin Edit Cities



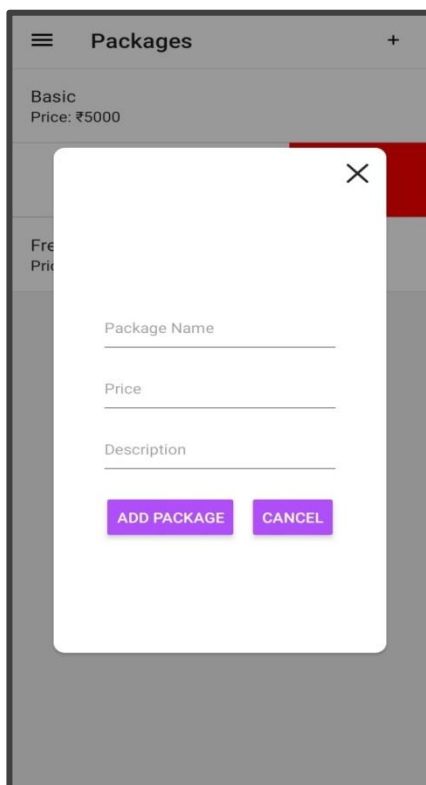
Admin Delete Cities



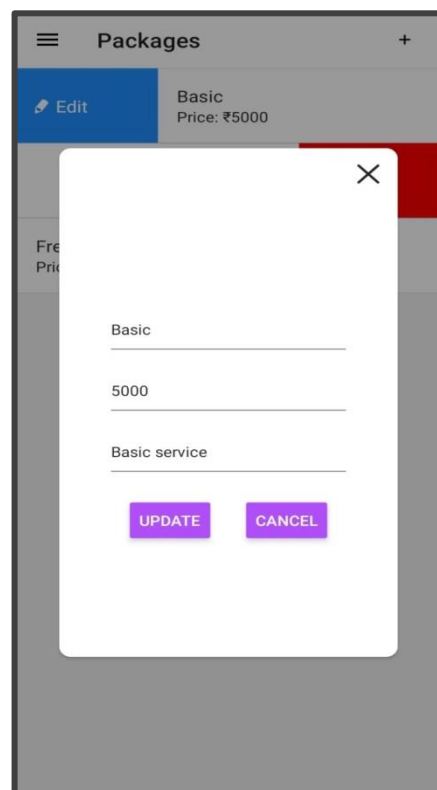
Admin Packages



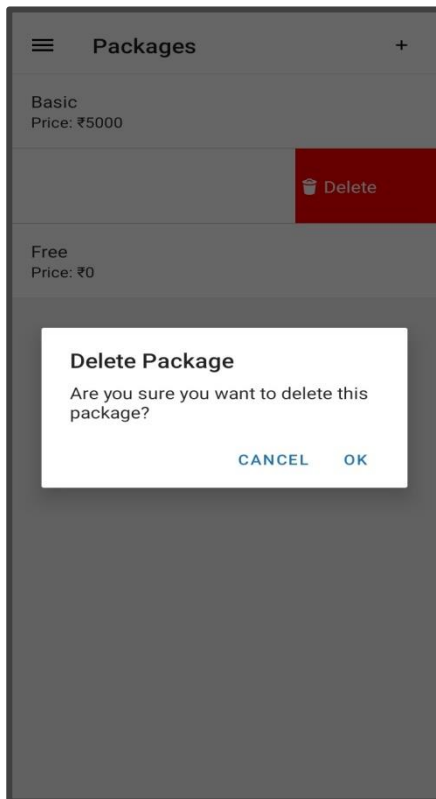
Admin Add Packages



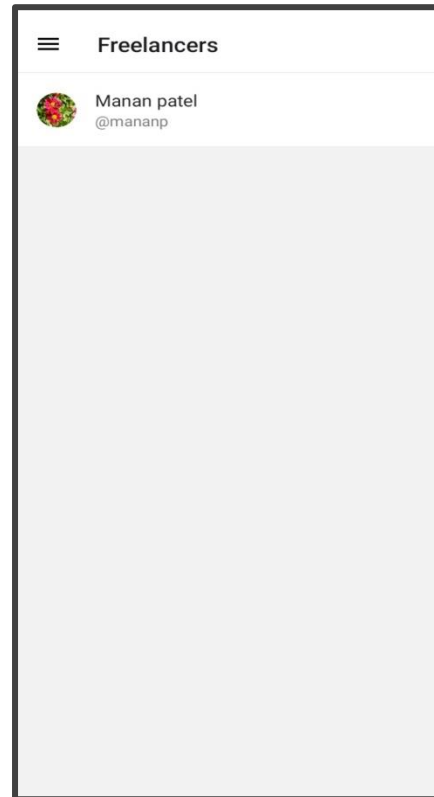
Admin Edit Packages



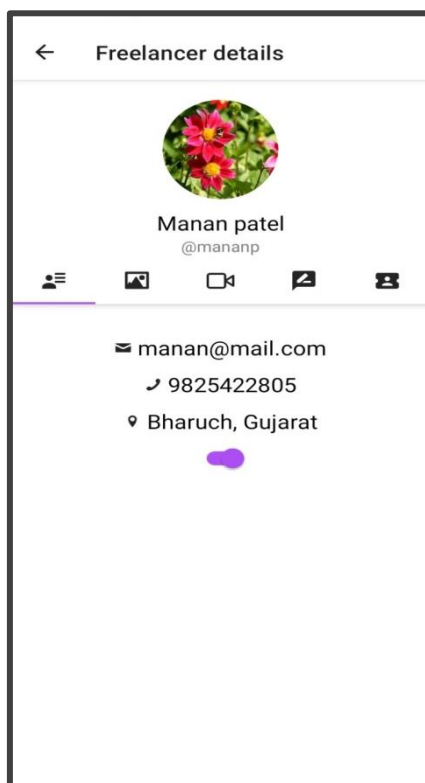
Admin Delete Packages



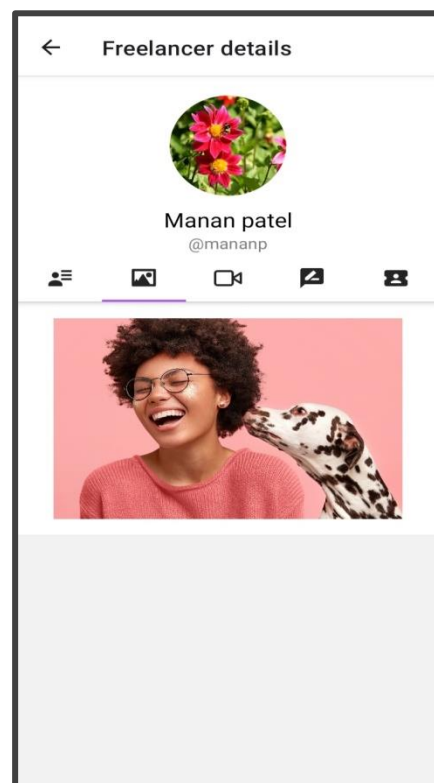
Admin Freelancers Profile



Admin Freelancers Details



Admin Freelancer Portfolio



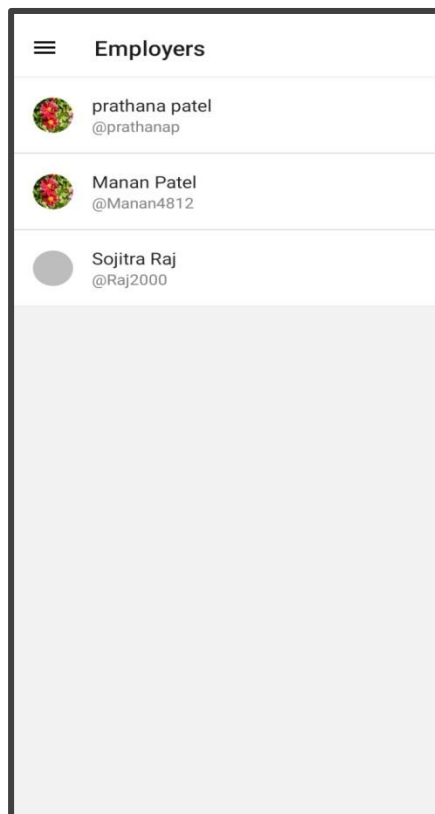
Admin Freelancer Reviews



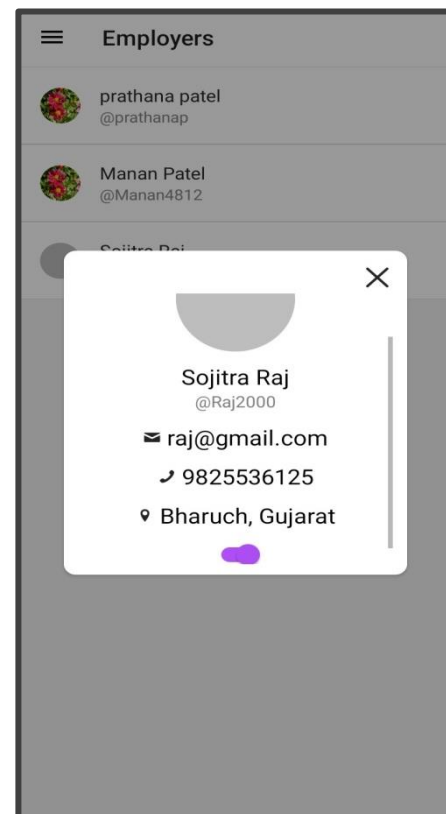
Admin Freelancer Orders



Admin Employers Profile

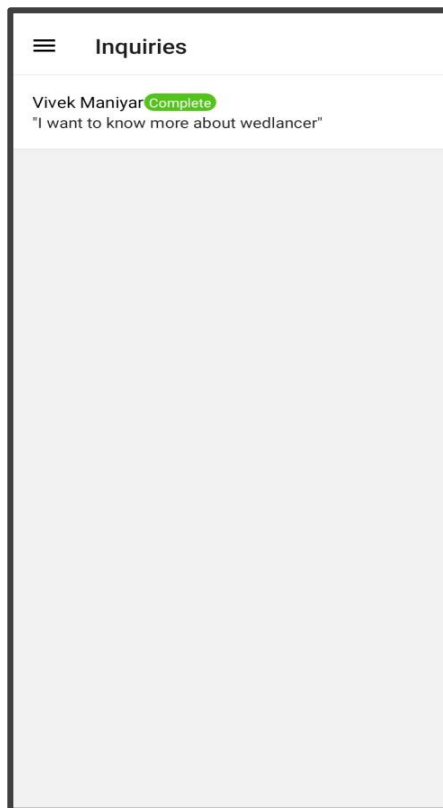


Admin Employers Details

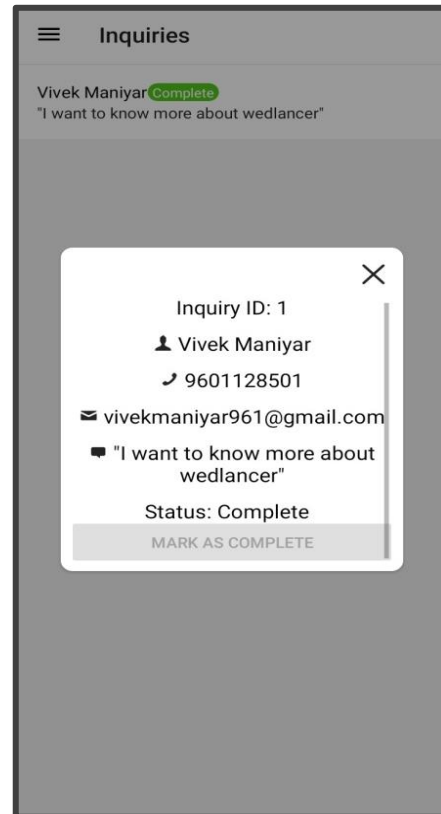


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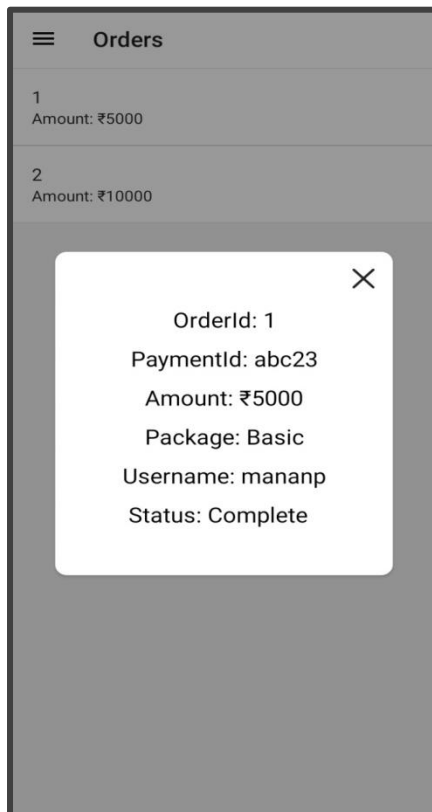
Admin Inquires



Inquires Detail



Admin Package Booking



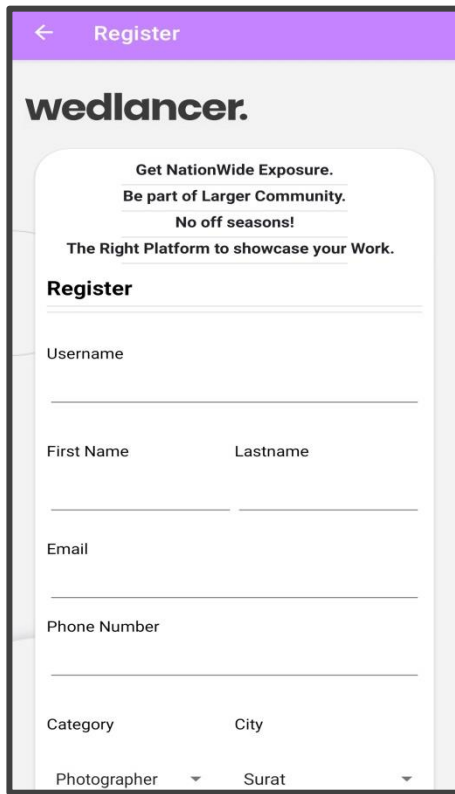
Admin Profile Details



Wedlancer

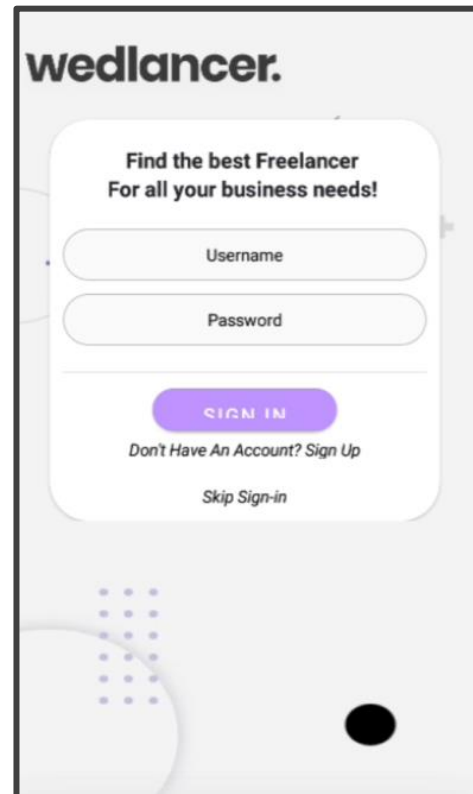
Employer Side

Employer Register



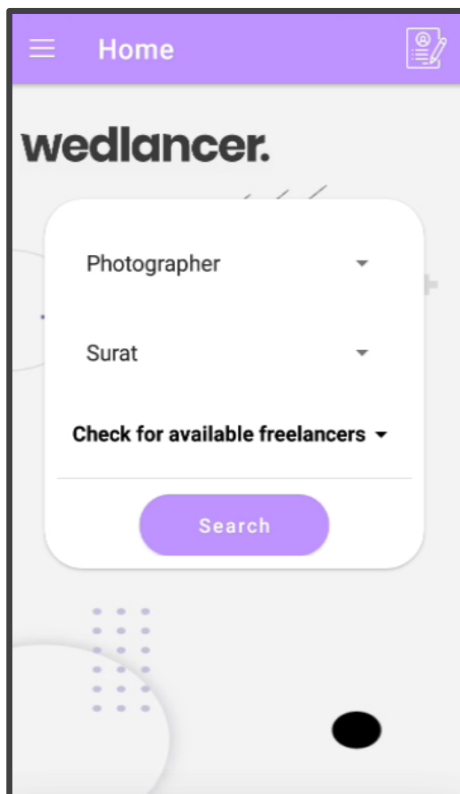
Register screen with a purple header bar containing a back arrow and the text "Register". The main content area has a light gray background with the "wedlancer." logo at the top. Below the logo is a white rounded rectangle containing promotional text: "Get NationWide Exposure.", "Be part of Larger Community.", "No off seasons!", and "The Right Platform to showcase your Work." Below this is a "Register" section with input fields for "Username", "First Name", "Lastname", "Email", "Phone Number", "Category" (with a dropdown menu), and "City" (with a dropdown menu). At the bottom, there are two dropdown menus for "Photographer" (showing "Photographer") and "Surat" (showing "Surat").

Employer Login



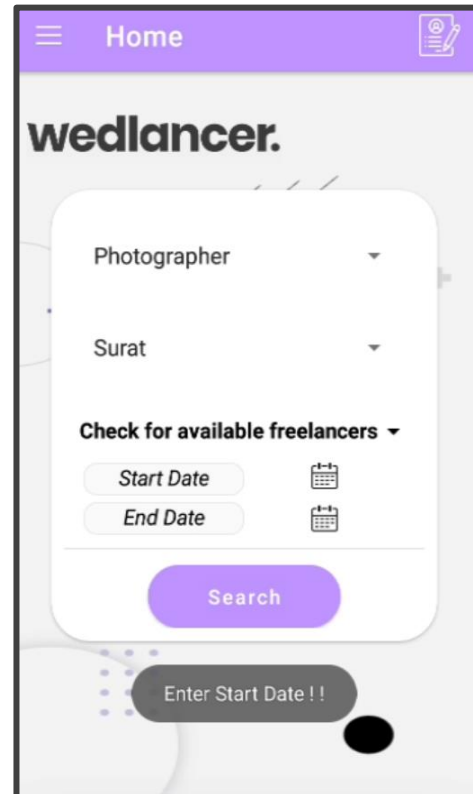
Login screen with a light gray background and the "wedlancer." logo at the top. The main content area is a white rounded rectangle containing the text "Find the best Freelancer For all your business needs!". Below this are input fields for "Username" and "Password". A purple "SIGN IN" button is centered below the fields. Below the button is the text "Don't Have An Account? Sign Up" and a link "Skip Sign-in".

Employer Home Page



Home screen with a purple header bar containing a menu icon, the text "Home", and a document icon. The main content area has a light gray background with the "wedlancer." logo at the top. Below the logo is a white rounded rectangle containing a "Photographer" dropdown menu (showing "Photographer"), a "Surat" dropdown menu (showing "Surat"), and a "Check for available freelancers" dropdown menu (showing "Check for available freelancers"). Below these is a purple "Search" button.

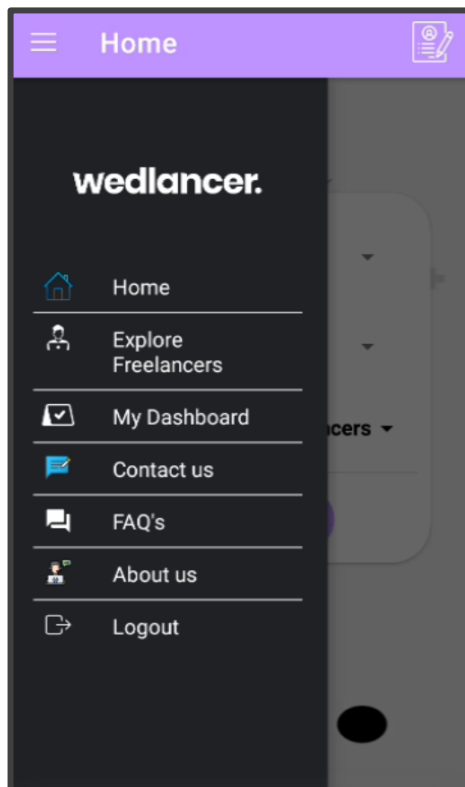
Employer Home Page Filter



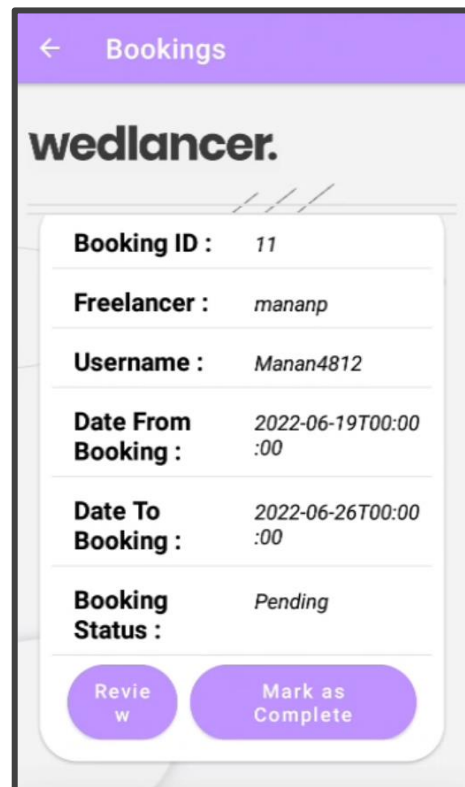
Home screen with a purple header bar containing a menu icon, the text "Home", and a document icon. The main content area has a light gray background with the "wedlancer." logo at the top. Below the logo is a white rounded rectangle containing a "Photographer" dropdown menu (showing "Photographer"), a "Surat" dropdown menu (showing "Surat"), and a "Check for available freelancers" dropdown menu (showing "Check for available freelancers"). Below these are two input fields: "Start Date" and "End Date", each with a calendar icon. Below the input fields is a purple "Search" button. At the bottom, there is a dark gray rounded rectangle containing the text "Enter Start Date !!".

Wedlancer

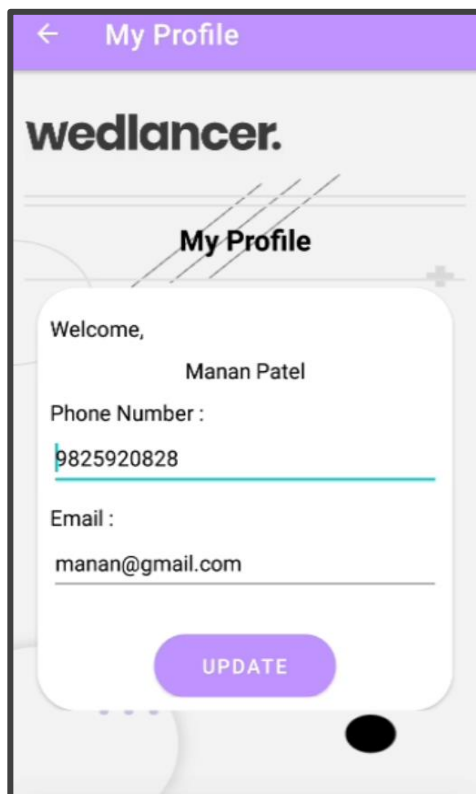
Employer Menu



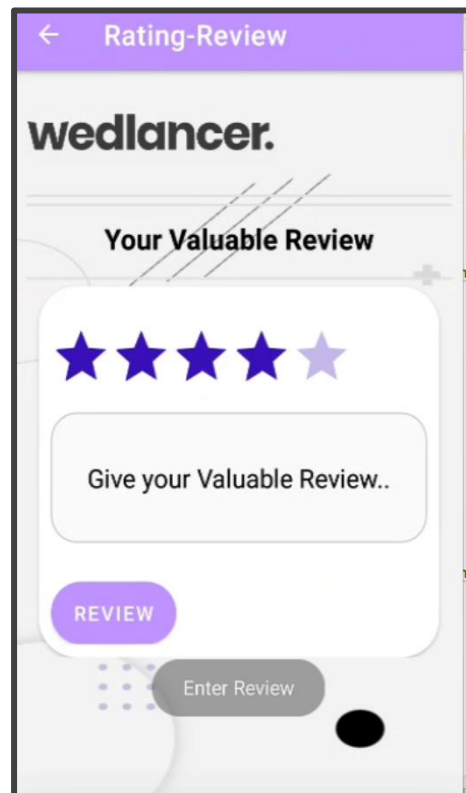
Employer Dashboard



Employer Profile

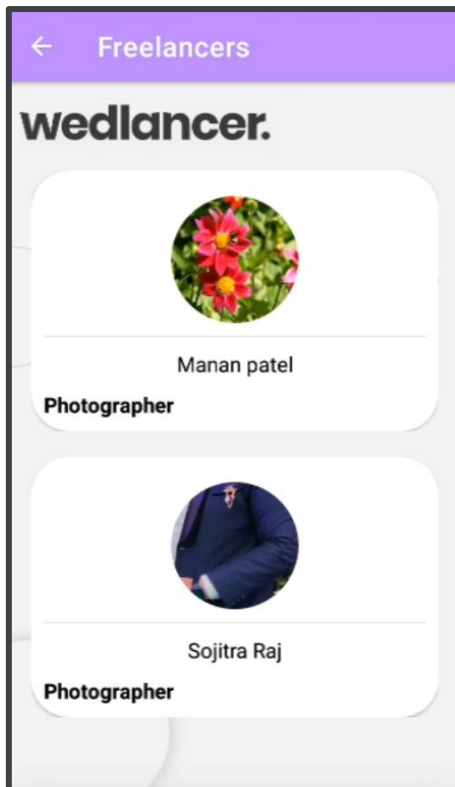


Employer Review

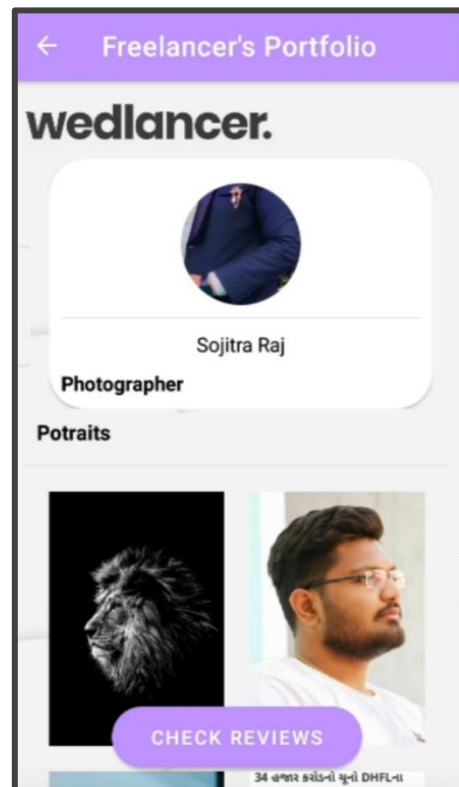


Wedlancer

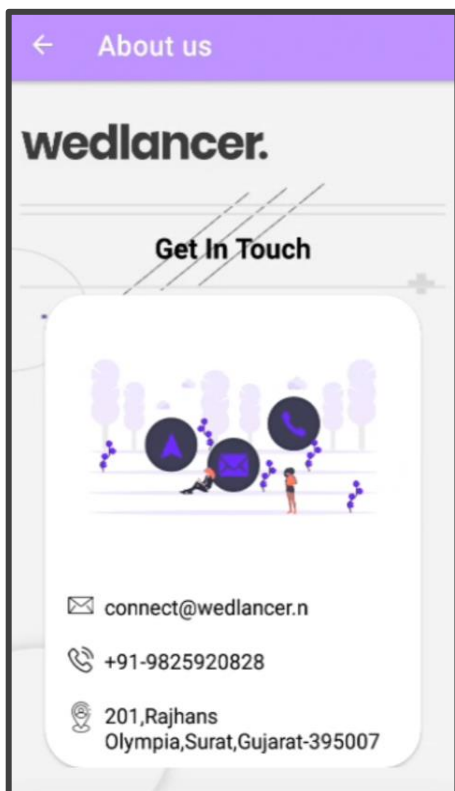
Available Freelancer



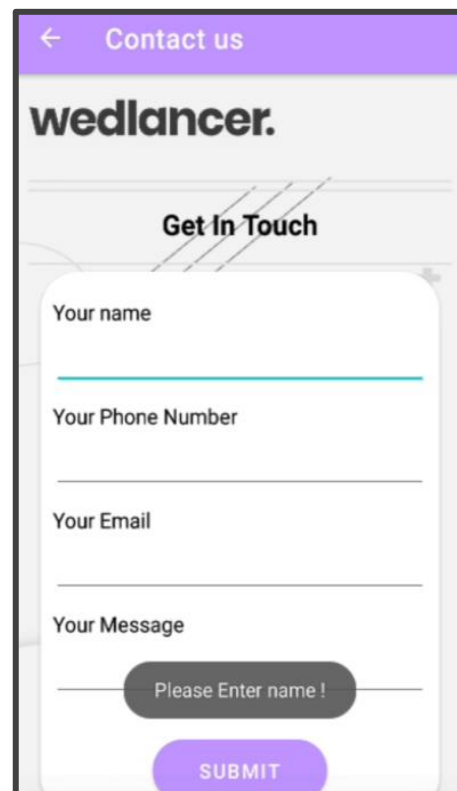
Freelancer Portfolio



Employer About us



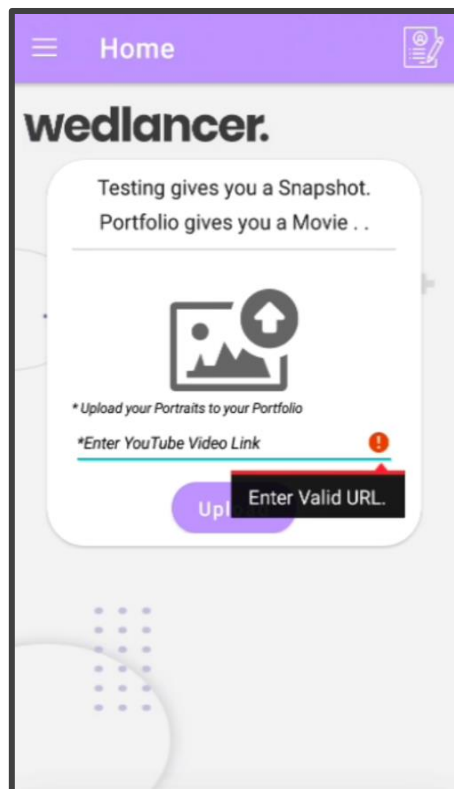
Employer Contact us



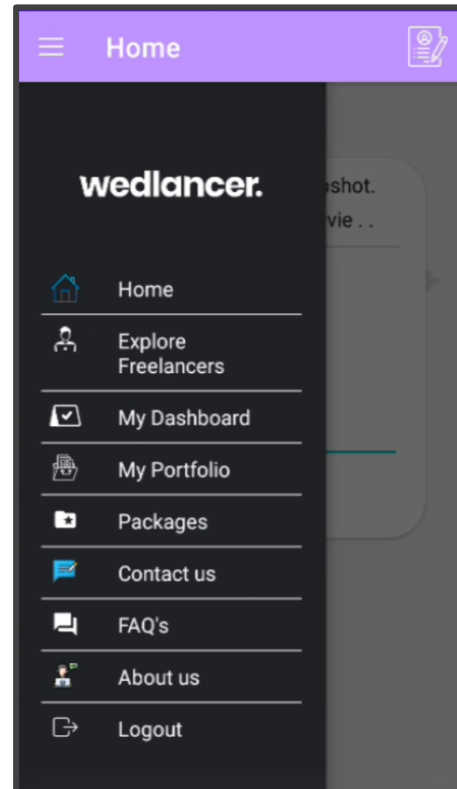
Wedlancer

Freelancer Side

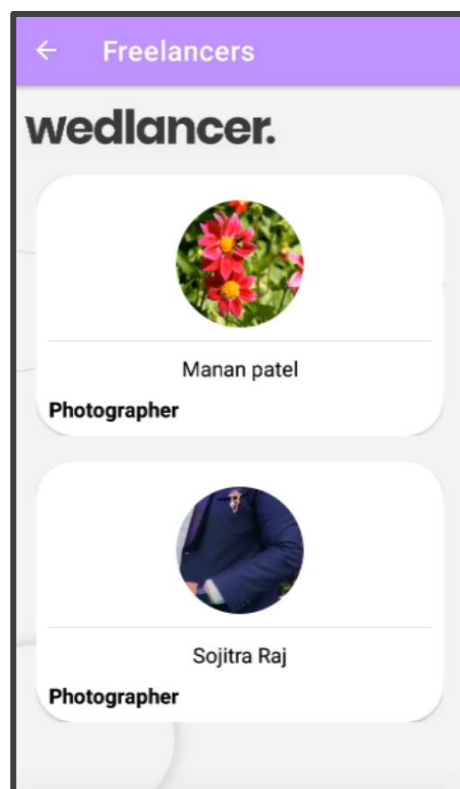
Freelancer Homepage



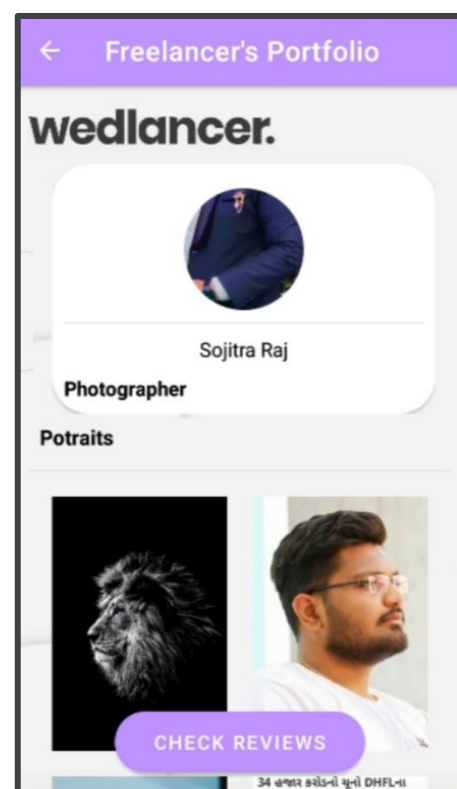
Freelancer Menu



Freelancer List

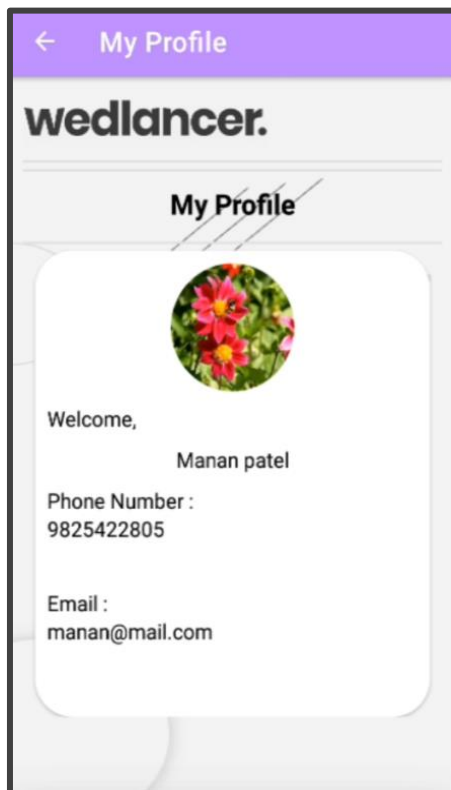


Freelancer Portfolio

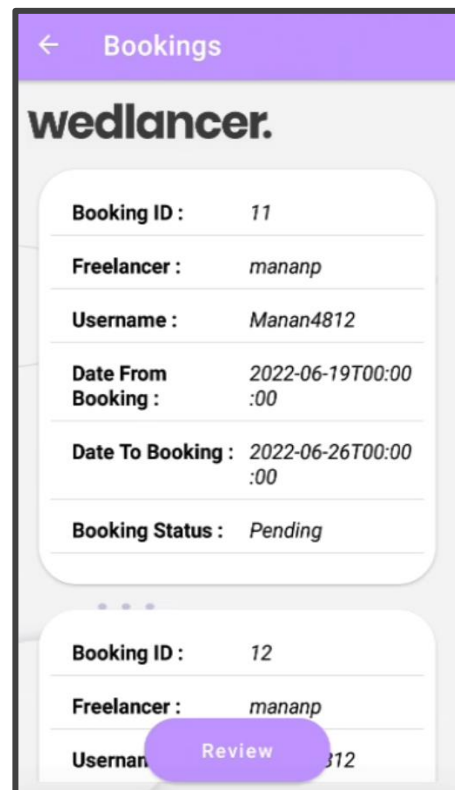


Wedlancer

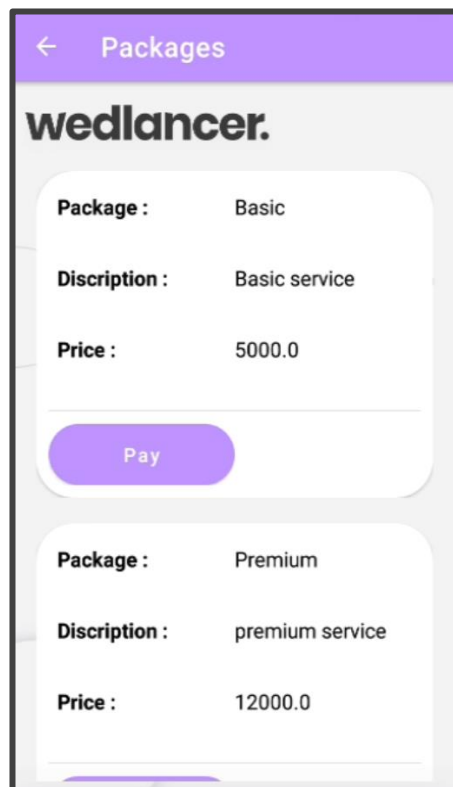
Freelancer Profile



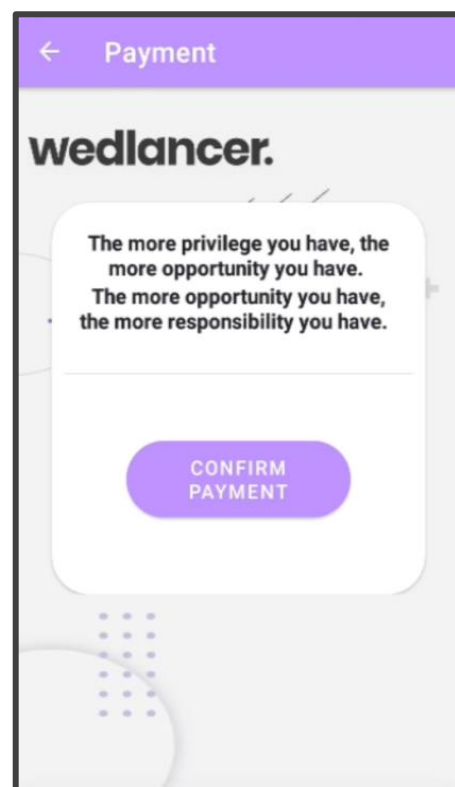
Freelancer Bookings



Freelancer Packages

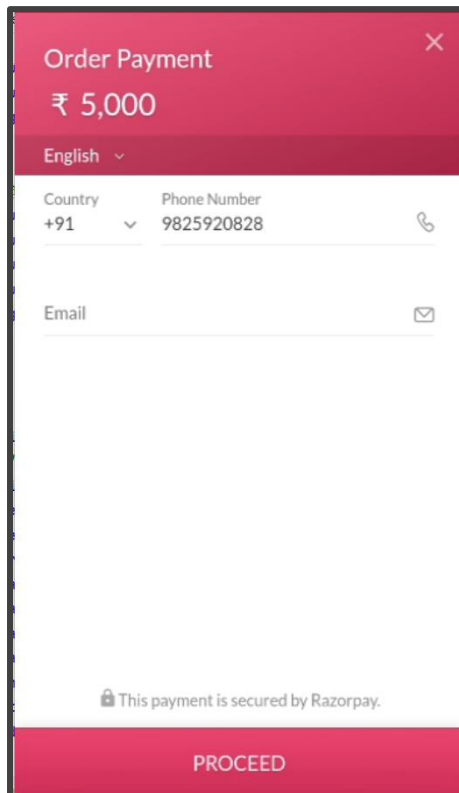


Freelancer Payment



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Payment Gateway



Order Payment

₹ 5,000

English

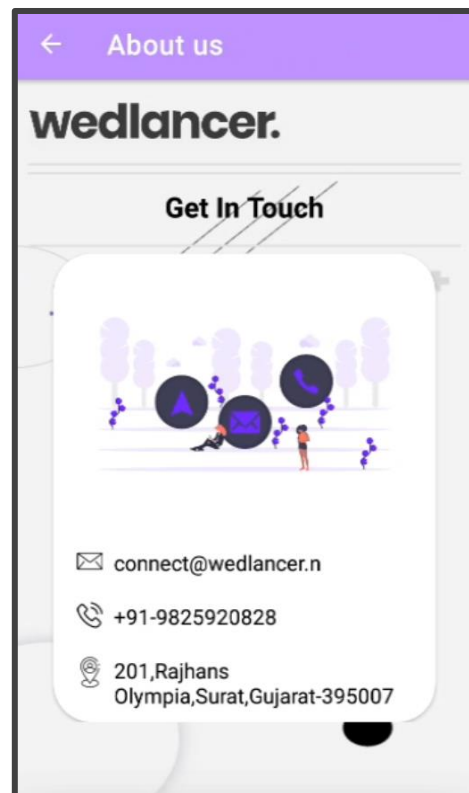
Country: +91 Phone Number: 9825920828

Email

This payment is secured by Razorpay.

PROCEED

Freelancer About us



About us

wedlancer.

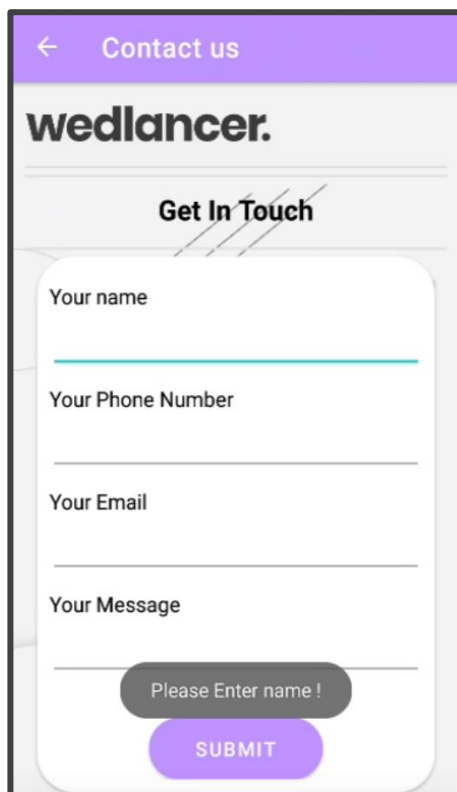
Get In Touch

connect@wedlancer.n

+91-9825920828

201,Rajhans
Olympia,Surat,Gujarat-395007

Freelancer Contact us



Contact us

wedlancer.

Get In Touch

Your name

Your Phone Number

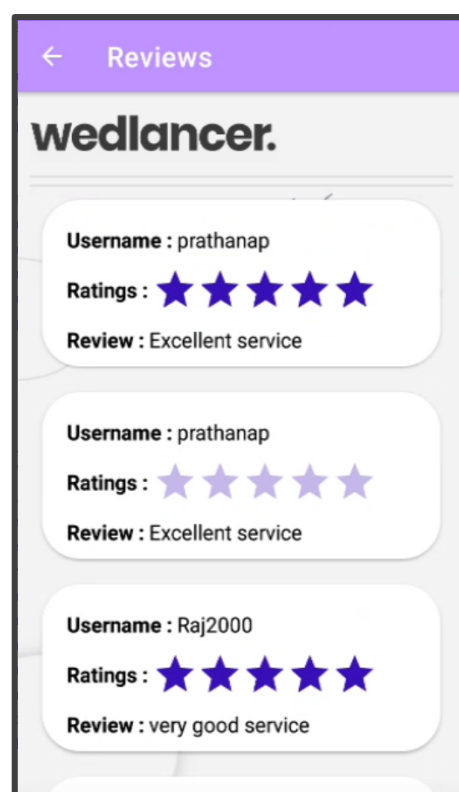
Your Email

Your Message

Please Enter name !

SUBMIT

Freelancer Reviews



Reviews

wedlancer.

Username : prathanap

Ratings : ★★★★★

Review : Excellent service

Username : prathanap

Ratings : ★★★★★

Review : Excellent service

Username : Raj2000

Ratings : ★★★★★

Review : very good service

6. Software Testing

6.1 Testing:-

After finishing the development of any computer based system the next complicated time consuming work is system testing. During the time of testing only the development company can know that. How far the user requirements have been met out, and so on. Following are the some of the testing method applied to this project:

6.2 Unit Testing:-

Unit testing concentrates on each unit of the software as implemented in the source code. Initially test focus on each module individually, ensuring that it function properly as a unit.

This module examines the code (logic) of the program special data where prepared which when process made used of all modules of the program, there by testing them.

The system analyst, in charge of the project was involved at this level of testing.

The unit testing has done for the system include for the following case:

- Testing procedure takes into consideration for all paths traversed during program executed on.
- Inputting appropriate values in the forms test all path, which can lead to errors.
- From open and close are checked for complete system.

- All variable names where checked for all procedures used in programming.
- Data types of the items are also checked.

I.e. if numeric values is to be entered then only numeric values should be accepted by that field. If any other values entered than appropriate error message will be display.

6.3 Integration Testing:-

In the integration testing the focus on the design and construction of the complete software architecture. All modules must be assembled or integrated to from the complete software package. Integration testing addresses the issues associated with dual problems of the verification and program constructions.

Here the programs looked at as black box and put though the motion of execution. After combining all the module, the following things are tested:

- Testing is done twice for checking new error encountered during errors correction.
- Check values displayed in second block referring the first block is also tested, means the sort details of the materials type must be displayed whenever needed other from modules.
- Bottom-up testing can only by performed after the lowest module is completed. So top-down testing selected, which test the software from the main modules to other lower modules.

7. API Endpoints

URL: <https://wedlancer.azurewebsites.net>

Swagger API documentation: <https://wedlancer.azurewebsites.net/swagger>

- **Endpoints for Admin**

Auth

1. /api/Auth/registeradmin [POST]: registers the new admin

Categories

1. /api/Categories [POST]: adds a new category
2. /api/Categories/{id} [PUT]: updates a category matching the id
3. /api/Categories/{id} [DELETE]: deletes a category matching the id

Cities

1. /api/Cities [POST]: adds a new city
2. /api/Cities/{id} [PUT]: updates the city matching the id
3. /api/Cities/{id} [DELETE]: deletes the city matching the id

Inquiries

1. /api/Inquiries [GET]: returns a list of inquiries
2. /api/Inquiries/{id} [GET]: returns data of an inquiry matching the id
3. /api/Inquiries/{id} [PUT]: updates the status of an Inquiry
4. /api/Inquiries/{id} [DELETE]: deletes an inquiry

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Orders

1. `/api/Orders/{id}` [PUT]: updates order status
2. `/api/Orders` [GET]: returns all orders

Packages

1. `/api/Packages` [POST]: adds a new package
2. `/api/Packages/{id}` [PUT]: updates package details
3. `/api/Packages/{id}` [DELETE]: deletes the package

Profiles

1. `/api/Profiles/employers` [GET]: returns the list of employers
2. `/api/Profiles/freelancers` [GET]: returns the list of freelancers
3. `/api/Profiles/changeaccountstatus` [PUT]: changes the account status of a user
4. `/api/Profiles/freelancerbookings` [GET]: returns all bookings of the freelancer

States

1. `/api/States` [POST]: adds a new state
2. `/api/States/{id}` [PUT]: updates the state
3. `/api/States/{id}` [DELETE]: deletes the state

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- **Endpoints for Employer**

Auth

1. `/api/Auth/registeremployeeer [POST]`: registers the new employer

Bookings

1. `/api/Bookings [POST]`: creates a new booking

Profiles

1. `/api/Profiles/employeeerbookings [GET]`: returns all bookings of an employer

Reviews

1. `/api/Reviews [POST]`: adds a new review
2. `/api/Reviews [PUT]`: updates the review
3. `/api/Reviews [DELETE]`: deletes the review
4. `/api/Reviews/reveiwsbyemployer [GET]`: returns all reviews by an employer

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- **Endpoints for freelancer**

Auth

1. `/api/Auth/registerfreelancer` [POST]: registers new freelancer

Orders

1. `/api/Orders` [POST]: adds a new order
2. `/api/Orders/freelancerorders` [GET]: returns all orders placed by the freelancer
3. `/api/Orders/{id}` [GET]: returns order details

Portfolios

1. `/api/Portfolios` [POST]: adds a new portfolio
2. `/api/Portfolios/{id}` [PUT]: updates the portfolio
3. `/api/Portfolios/{id}` [DELETE]: deletes the portfolio

Profiles

1. `/api/Profiles/freelancerbookings` [GET]: returns all bookings of the freelancer

- **Endpoints for all registered users**

1. `/api/Auth/login` [POST]: Verifies user details and returns a JWT token after successful verification
2. `/api/Profiles/updateprofile` [PUT]: Updates the profile details

- **Endpoints for all users**

1. /api/Categories [GET]: returns all categories
2. /api/Categories/{id} [GET]: returns category details
3. /api/Cities [GET]: returns all cities
4. /api/Cities/{id} [GET]: returns city details
5. /api/Inquiries [POST]: adds a new inquiry
6. /api/Packages [GET]: returns all packages
7. /api/Packages/{id} [GET]: returns package details
8. /api/Profiles/allprofiles [GET]: returns all freelancer profiles
9. /api/Profiles/availableprofiles [GET]: returns all available profiles within the given date range
10. /api/Profiles/profiledetails [GET]: returns profile details of the freelancer
11. /api/Profiles/searchportfolio [GET]: returns freelancer portfolio
12. /api/Reviews/freelancerreviews [GET]: returns all freelancer reviews
13. /api/States [GET]: returns all states
14. /api/States/{id} [GET]: returns state details

8. Future Enhancement

Proposed Enhancement:

- Making API more Secure.
- Making Project Cross-Platform.
- Providing Payment Functionality to the Employer.
- Scheduler for Freelancer.

9.Reference

**We Thanks to the Following Whom We have Taken
Reference to Enhance our System.**

- <https://reactnative.dev/>
- <https://expo.dev/>
- <https://reactnativeelements.com/>
- <https://galio.io/>
- <https://portal.azure.com/>
- <https://reactnavigation.org/>
- <https://docs.microsoft.com/>
- <https://cloudinary.com/>
- <https://app.diagrams.net/>