

Work without walls

Final Year Project Proposal

Session 2019-2023


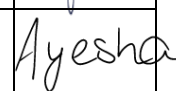
A project submitted in partial fulfillment of
the COMSATS University Degree
of
BS in Computer Science



Department of Computer Science
COMSATS University Islamabad, Lahore Campus

12 January 2023

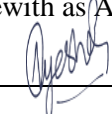
Project Detail

Type project) (Nature of	[] Development					
Area of specialization	Web Development					
Project Group Members						
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Plagiarism Free Certificate

This is to certify that, I am Ayesha Aleem S/D/o Major Muhammad Aleem, group leader of FYP under registration no CIIT/SP19-BCS-017/LHR at Computer Science Department, COMSATS Institute of Information Technology, Lahore. I declare that my FYP proposal is checked by my supervisor and the similarity index is 12% that is less than 20%, an acceptable limit by HEC. The report is attached herewith as Appendix A.

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Abstract

The system being proposed is an online freelancing website that is used by freelancers, clients and it also helps the students in quizzes with assignments. All the users are verified their identity by their CNIC with card. The verification makes the system secure and scam free. The client as well as freelancer required to sign up to the website so that they can be considered as registered users. The client uploads the proposal and the freelancer bid for the proposal. After the selection of freelancer and then the completion of order, the freelancer be paid. Payment method of proposed system is very efficient so the freelancers be paid within ten days. The system provides a chatting platform to both clients and freelancers so they can discuss their work in an efficient manner. In case of any query or issue, both client and freelancer contact to contact support and their issue are resolved.

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1: Chapter 1

1.1 Introduction

The system being proposed is a website which represents a freelance marketplace where clients can post projects and freelancer can bid for the project. It is the system where both the freelancer and the clients work under the one platform. Though there are many freelancing websites but the proposed website covers the drawbacks of the rest freelancing websites. Let's take into account the academic work, not even a single freelancing website allows the freelancers to take the orders from the academic work, our website eradicate this boundary by letting the freelancers to work on a large scale and boost their skills. Scam, the most important aspect of any website which should be reduced as much as possible.

The proposed website not allow any user to use the features until and unless he signup through their CNIC by which scam be reduced. The proposed system is a proper solution which we are going to develop. Through CNIC only one account can be made per CNIC so no duplicate accounts be there. Work without walls website be user friendly. User can easily use the website without any obstacle. The whole website is made keeping in view the layman. There is no feature of team work in many freelancing websites, our website allows different organization to hire teams for a time. CNIC verification is done through admin panel.

The whole project is made on react. For backend functionality node is used. There are many databases i.e. sql, oracle, sql server but in proposed fyp we are using Mongo DB that's because entire structured or unstructured information can be stored in the same document.

1.2 Success Criterion

This project aims to develop a freelance marketplace which offer both employers and workers a convenient platform for finding work and hiring new talent. Yet, despite a large number of the existing freelance online platforms but none of them are perfect. Our proposed system overcome the flaws that are in existing systems. It includes more valuable features which are helpful for both freelancers and clients. In general, the systems favor clients in case of any dispute and sellers get loss which is a poor customer service. But our system listen from both sides, negotiate with them and then make a final decision. The proposed system have a feature of percentage off where freelancers can offer discount on their services and attract more buyers. Our system verify the users through CNIC and make the system secure.

1.3 Related Work

Table 1 Related Work

Features	FlexJobs [1]	TrueLancer [2]	PeoplePerHour [3]	Freelancer [4]	Guru [5]	Fiverr [6]	Upwork [7]	Seoclerks [8]
Academic work	No	No	No	No	No	No	No	No
Tax	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
Quick Payment	No	No	No	No	No	No	No	No
Reviews	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Profile	Yes	Yes	Yes	Yes		Yes	Yes	Yes
Verification through CNIC	No	No	No	No	No	No	Yes	No
Bidding	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Seller Level	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Advertisement of gig	Yes	Yes	No	Yes	Yes	No	No	Yes
Sale	No	No	No	No	No	No	No	Yes

1.3.1 Analysis

1. The proposed system has a unique feature of academic work which is not present in all above mentioned systems. Sometimes, students want help in their projects, quizzes an assignment. This feature is very helpful for those students.

2. Another unique feature of verification through CNIC include in the proposed system. This feature help to make system more secure and reliable for the users. By this feature, scam rate decrease. Except Upwork [7], none of the system contain this feature. User can only login if the CNIC matches with the given CNIC picture and then they can login to their account.

1.4 Project Rationale

As we know, working online initially we searched for trustworthy websites. A lot of scam is faced by people in this era. Earning is not that much as the tax on it, getting \$5 and tax on it in most of website are 20%, nothing remains in the wallet of freelancer. Motivated to eradicate all these drawbacks in this website. By developing this project, we are able to learn how to implement payment module, building a profile, keep track of users etc.

1.4.1 Aims and Objectives

- To develop a website, having a user-friendly environment where the users can easily, quickly hire freelancers for their desired work.
- Bring up new features like maximize tax reduction, team hiring so that organization can take work from a team to boost the time, verification through only CNIC rather than email as it is in Upwork (reference: [7]), mobile number so that only one user can make a single account on a website. The expected final outcome of the project is building a freelancing website.
- Our goal is to generate revenue from this idea as well as to improve our skills in computer science field while developing this project.
- With our freelancing additional features as the key use.

1.4.2 Scope of the Project

After the website is fully developed and functional the client be able to hire an individual for a task or the team only if he signup through his CNIC. Only 10% tax be applicable on every order. Internet accessibility is necessary. The project be completed within due time. The website is user friendly. The client can order and give the review for the freelancer work. The freelancer can attract different buyers towards them by doing work in less wages. i.e. sale. A freelancer can showcase his work in the form of gigs. Timely delivery be ensuring so that customer don't get irritated.

1.4 Assumptions and Constraints

There can be several reasons that can limit the development of our system and our goals

1.4.1 Assumptions

- All resources be available for the completion of proposed project.
- Well defined scope of project.

- Tools and technology are available.
- Each project member performs efficiently.

1.4.2 Constraints

While delivering a proposed project to customers, we may run into a market limitation. That is, we may develop more or less than is required by the institution to sustain its equipment and resources. During the maintenance period, services of our platform be unavailable.

1.5 Proposed Methodology and Architecture

So mainly we are making our project using React, as it is in market. We be using MVC, model view and controller framework. User interact through view, if any changes occur the controller be triggered and model be changed and updated view be given to user. For the backend functionality we be using MongoDB database and node.js for backend. The data related to entire website is handled through MongoDB , by sending and receiving schemas and validating user through storing their data.

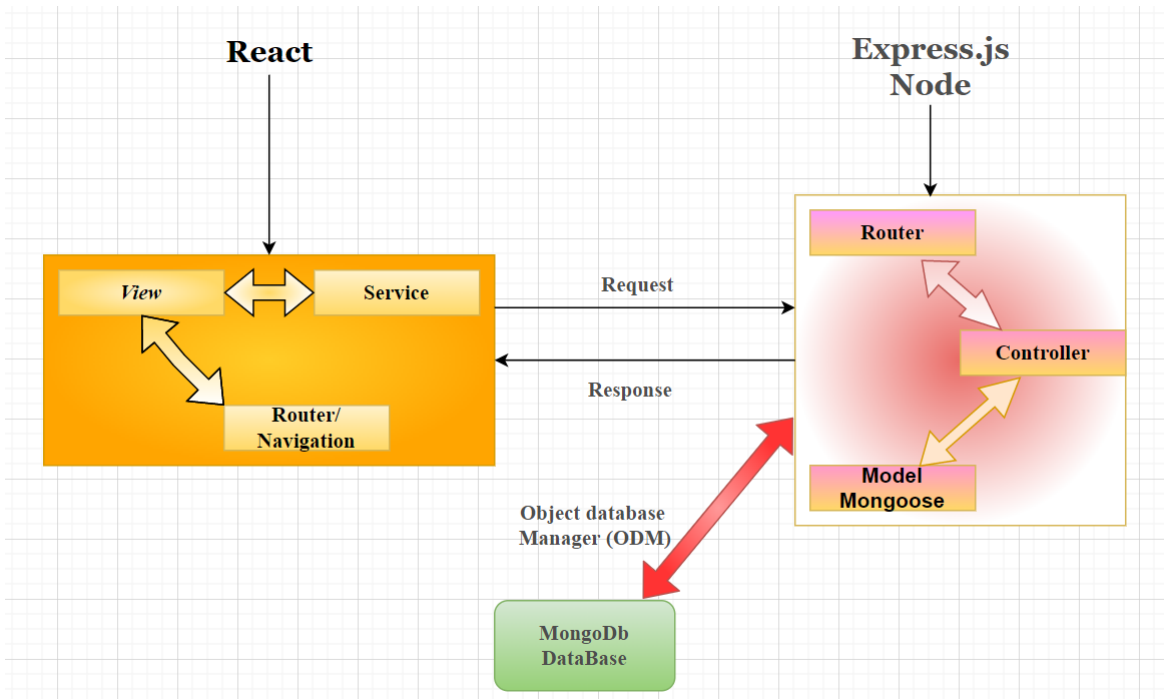


Figure 1 Methodology and Architecture

1.6 Individual Tasks

Table 2 Individual Tasks

Ayesha Aleem	Ayesha Younus
Landing Page Frontend + backend +integration	Teams Integration
Login Frontend + backend +integration	Job Assignment Frontend + backend +integration
Signup Frontend + backend +integration	Review and Feedback Frontend + backend +integration
Profile Frontend + backend +integration	Notifications Backend+integration
Buyer Request Frontend + backend +integration	Payment Frontend + backend +integration
Message Module Frontend + backend +integration	
Teams Frontend + backend	

2:

Chapter 2: Requirements Analysis

2.1 Stakeholders List

2.2.1 Buyers and Freelancers

Buyers are the users who will submit buyer request according to their requirements for bidding. Freelancers are the users who is bidding for the proposals and are showcasing their skills.

2.2.2 Admin

Admin is the stakeholder who is validating CNIC and can see the user ratings .

2.2 Requirements Elicitation

2.2.1 Functional Requirements

2.2.1.1 FR01-Sign up

Table 3 FR01-Sign up

FR01-01	The system enables users and customers to register. The system ask name, email address, password, CNIC, CNIC front image and back, confirm password from them.
----------------	--

2.2.1.2 FR02 - Log in

Table 4 FR02 - Log in

FR02-01	The system allows the authorized users to access the system after verification of login credentials.
FR02-02	The system allows the users to recover their forgotten password through email verification

2.2.1.3 FR03-Edit Profile

Table 5 FR03-Edit Profile

FR03-01	The system allows users to edit their profile.
FR03-02	Users can edit and manage their profile.

2.2.1.4 FR04-Delete Account

Table 6 FR04-Delete Account

FR04-01	The system allow the users to delete their account.
----------------	---

2.2.1.5 FRO5-Proposal

Table 7 FRO5-Proposal

FR05-01	In the proposed system, buyer sends proposal to freelancers by selecting the category, price and time of his own choice.
FR05-02	The system shows these buyer requests to freelancers and they bid on these buyer requests.

2.2.1.6 FR06-Bidding

Table 8 FR06-Bidding

FR06-01	The system allows the sellers to bid proposals for getting job.
----------------	---

2.2.1.7 FR07-Review and Feedback

Table 9 FR07-Review and Feedback

FR07-01	The system allows customers to add their reviews.
FR07-02	The system asks them to rate overall service and add comment.

2.2.1.8 FR08-Payment

Table 10 FR08-payment

FR09-01	Proposed system sends payment to freelancers within 10 days.
----------------	--

2.2.1.9 FR09-Contact Support

Table 11 FR09-Contact Support

FR09-01	Proposed system helps the users in case of any query and issues.
FR09-02	System resolve the issue of clients and freelancers.

2.2.1.10 FR10-Block Account

Table 12 FR10-Block Account

FR10-01	System block the account of users in case of violation of rules.
----------------	--

2.2.1.11 FR11-Notification

Table 13 FR11-Notification

FR11-01	System send notifications to freelancers for the deadline of their orders.
FR11-02	System send notification to users in case of any update and maintenance.

2.2.1.12 FR12-Chat

Table 14 FR12-Chat

FR12-01	System allow freelancers and buyers to discuss the project.
FR12-02	System allow freelancers and buyers to keep in touch during order completion time period.

2.2.1.13 FR13-View Freelancer Profile

Table 15 FR13-View Freelancer Profile

FR13-01	System allow admin to view users profile.
FR13-02	System allow admin to take action on user's profile in case of any fraud or scam.

2.2.1.14 FR14 Search Option

Table 16 FR14-Search Option

FR14-01	System allow buyers to search service according to their requirements.
----------------	--

2.2.2 Non-Functional Requirements

2.2.2.1 NFR01: Security

Table 17 NFR01: Security

NFR01-01	The proposed system ensure the security of users email id and password.
NFR01-02	After the end of user session, no user data and information be saved on client machine.
NFR01-03	The system provide access to authorized users only.
NFR01-04	Unauthorized users won't be able to access the system.

2.2.2.2 NFR02: Performance and Scalability

Table 18 Performance and Scalability

NFR02-01	The average load time of the starting page of the proposed system is less than 5 seconds.
NFR02-02	Average processing time taken by the system to complete a request is less than 8 seconds.
NFR02-03	Average system response time is not greater than 5 second.
NFR02-04	System speed is not slowing down by increasing number of users and operations.

2.2.2.3 NFR03: Portability

Table 19 Portability

NFR03-01	User can use the proposed system in any android device.
-----------------	---

2.2.2.4 NFR04: User friendly

Table 20 User friendly

NFR04-01	The user is able to get familiar with the interface within no more than 5 minutes.
NFR04-02	The system is having minimal and user-friendly interface

2.2.2.5 NFR05: Accuracy

Table 21 Accuracy

NFR05-01	The system is generating results that be accurate according to user's search.
-----------------	---

2.2.2.6 NFR06: Defect Maintenance

Table 22 Defect Maintenance

NFR06-01	In case of any defect maintenance, the proposed system is not taking no more than 12 hours.
-----------------	---

2.2.2.7 NFR07: Environment

Table 23 Environment

NFR07-01	The system is not containing any environmental constraint.
-----------------	--

2.2.3 Traceability Matrix:

Table 25 Traceability Matrix

ID	FR ID	Description	Use Case #	Test Case #	Sequence #	Activity #
01	FR01	Sign Up	UC001	TC001	001	001
02	FR02	Login	UC002	TC002	002	002
03	FR03	Edit Profile	UC003	TC003	003	003
04	FR04	Delete Account	UC004	TC004	004	004
05	FR05	Proposal	UC005	TC005	005	005
06	FR06	Bidding	UC006	TC006	006	006
07	FR07	Review and Feedback	UC007	TC007	007	007
08	FR08	Payment	UC008	TC008	008	008
09	FR09	Contact Support	UC009	TC009	009	009

10	FR10	Block Account	UC010	TC010	010	010
11	FR011	Notification	UC011	TC011	011	011
12	FR012	Chat	UC012	TC012	012	012
13	FR013	View Freelancer Profile	UC013	TC013	013	013
14	FR014	Search option	UC014	TC014	014	014

2.3 Use Case Description

2.3.1 UC01: Registration

Table 26 2.3.1 UC01: Registration

Use case ID:	001	Use case Name:	Registration
Priority	01		
Actor	Admin, Buyer, Freelancer		
Use Case Summary	This use case register new users and authorize them to use system according to their type.		
Pre-Conditions	None		
Normal Follow of paths		Alternative path	
User start the system.		User entered wrong information.	
User select the type as freelancer or Buyer.			
User click on' Sign Up' button.			
Exceptions:			
Database connection occur.			
Post-conditions:			
Step no#	Description		
1.	The user be logged into the system in case of successful Sign Up.		

2.3.2 UC02: Login

Table 27 2.3.2 UC02: Login

Use case ID:	002	Use case Name:	Login
Priority	02		

Actor	Admin, Buyer, Freelancer	
Use Case Summary	This use case verify the users information and allows them to use system features according to user type.	
Pre-Conditions	User should have registered account.	
Normal Follow of paths		Alternative path
User start the system.		User entered wrong username or password.
User enter username and password...		User forget password.
User click on login button.		
Exceptions:		
Database connection error occur.		
Post-conditions:		
Step no#	Description	
1.	The user be logged into the system in case of successful Sign Up.	

2.3.3 UC03: Edit Profile

Table 28 2.3.3 UC03: Edit Profile

Use case ID:	003	Use case Name:	Edit Profile
Priority	03		
Actor	Admin, Buyer, Freelancer		
Use Case Summary	This use case enable admin, freelancers and Buyers to edit their profile information like profile image, description of work,tittle skills, services.		
Pre-Conditions	User be logged in and authorized.		
Normal Follow of paths		Alternative path	
User enter 'Edit Profile' section.		Data input format not correct.	

User click on the text field that is to be edited.	
User input new details and click on 'Update Info' button.	
Exceptions:	
Database connection error occur.	
Post-conditions:	
Step no#	Description
1.	User has made changes in profile information.

2.3.4 UC04: Delete Account

Table 29 2.3.4 UC04: Delete Account

Use case ID:	004	Use case Name:	Delete Account
Priority	04		
Actor	Admin		
Use Case Summary	Enable admin to permanently delete account.		
Pre-Conditions	User be logged in and authorized.		
Normal Follow of paths		Alternative path	
Admin click on the "Profile" button.		Error while deleting the account. System display an error message.	
Admin click on the "Edit Profile" button.			

Admin clicks the “Delete Account Permanently” button.	
Exceptions:	
Database connection error occur.	
Post-conditions:	
Step no#	Description
1.	Account deleted.

2.3.5 UC05: Proposal

Table 30 2.3.5 UC05: Proposal

Use case ID:	005	Use case Name:	Proposal
Priority	05		
Actor	Buyer		
Use Case Summary	This use case allows the users to submit their proposal and the detailed information of their requirements.		
Pre-Conditions	User be logged in and authorized.		
Normal Follow of paths		Alternative path	
1. User click on the Proposal.		System display an error message.	
2. User enter his requirements.			
3. User click on submit proposal.			
Exceptions:			
Database connection error occur.			
Post-conditions:			

Step no#	Description
1.	The user get messages from a lot of freelancers related to their work and he choose any freelancer for his work.

2.3.6 UC06: Bidding

Table 31 2.3.6 UC06: Bidding

Use case ID:	006	Use case Name:	Bidding
Priority	06		
Actor	Freelancers		
Use Case Summary	This use case bid to all the proposals and in case of succession, the user get work.		
Pre-Conditions	User logged in and authorized.		
Normal Follow of paths		Alternative path	
1. User can click on the Proposal.		System can display an error message.	
2. User can bid on proposal.			
3. User can click on submit proposal.			
Exceptions:			
Database connection error occur.			
Post-conditions:			
Step no#	Description		
1.	If the bidding successful, the user get the job.		

2.3.7 UC07: Feedback and Review

Table 32 2.3.7 UC07: Feedback and Review

Use case ID:	007	Use case Name:	Feedback and Review
Priority	07		
Actor	Freelancers, Buyers		
Use Case Summary	This use case show the Buyers about service work efficiency by feedback and reviews.		
Pre-Conditions	User be logged in and authorized. User should has placed an order.		
Normal Follow of paths		Alternative path	
1. User click on ‘Review and Feedback’ button.		User not give review and feedback.	
2. User click on submit review.			
Exceptions:			
Database connection error occur.			
Post-conditions:			
Step no#	Description		
1.	Review and Feedback uploaded.		

2.3.8 UC08: Payment

Table 33 2.3.8 UC08: Payment

Use case ID:	008	Use case Name:	Payment
Priority	08		
Actor	Freelancers, Buyers		
Use Case Summary	This use case receive payment from buyer and transfer payment to freelancers.		

Pre-Conditions	User logged in and authorized. User should complete his work.	
Normal Follow of paths		Alternative path
1. Buyer click on 'Payment' Button and pay the payment.		System display an error.
2. Freelancer click on 'Payment' button and get the payment.		
Exceptions:		
Database connection error occur.		
Post-conditions:		
Step no#	Description	
1.	Freelancer receive the payment.	

2.3.9 UC09: Contact Support

Table 34 2.3.9 UC09: Contact Support

Use case ID:	009	Use case Name:	Contact Support
Priority	09		
Actor	Admin, Freelancers, Buyers		
Use Case Summary	This use case solves the issues of users and resolve the queries of users.		
Pre-Conditions	User logged in and authorized.		
Normal Follow of paths		Alternative path	
1. User click on 'Home Button' button.		System is busy.	
2. User click on submit query.			
Exceptions:			

Database connection error occur.	
Post-conditions:	
Step no#	Description
1.	User get the solution of his queries.

2.3.10 UC 010 Block Account

Table 35 2.3.10 UC010 Block Account

Use case ID:	010	Use case Name:	Block Account
Priority	010		
Actor	Admin		
Use Case Summary	This use case check and balance the both Buyers and freelancers account. In case of any violation of rules and regulations, system block the user account.		
Pre-Conditions	Admin should be logged in.		
Normal Follow of paths		Alternative path	
1. Admin click on ‘Block Account’ button.		System is busy.	
Exceptions:			
Database connection error occur.			
Post-conditions:			
Step no#	Description		
1.	Account is blocked.		

2.3.11 UC011: Notification

Table 36 2.3.11 UC011: Notification

Use case ID:	011	Use case Name:	Notification
Priority	011		
Actor	Freelancer, Buyer		
Use Case Summary	This use case show buyers notifications when order is complete or freelancer require more information.		
Pre-Conditions	User should be logged in.		
Normal Follow of paths		Alternative path	
1. Buyer and freelancer click on 'Notifications' button.		System is busy.	
Exceptions:			
Database connection error occur.			
Post-conditions:			
Step no#	Description		
1.	Notification be viewed by freelancers and buyers.		

2.3.12 UC12: Chat

Table 37 2.3.12 UC12: Chat

Use case ID:	012	Use case Name:	Chat
Priority	012		
Actor	Freelancer, Buyer		

Use Case Summary	This use case allow users to negotiate with each other to make things better.	
Pre-Conditions	User should be logged in.	
Normal Follow of paths		Alternative path
1. User click on profile of freelancer		System is busy.
Exceptions:		
Database connection error occur.		
Post-conditions:		
Step no#	Description	
1.	Work done more efficiently and requirements is clear.	

2.3.13 UC13: View Freelancer Profile

Table 38 2.3.13 UC13: View Freelancer Profile

Use case ID:	013	Use case Name:	View Freelancer Profile
Priority	013		
Actor	Admin		
Use Case Summary	This use case allow admin to view freelancers profile, their communication with Buyers, their orders and analytics.		
Pre-Conditions	User should be logged in.		
Normal Follow of paths		Alternative path	
1.Admin click on freelancer Profile and view freelancer profile.		System is busy.	
Exceptions:			
Database connection error occur.			
Post-conditions:			

Step no#	Description
1.	Admin takes action if he/she found scam.

2.3.14 UC014: Search Option

Table 39 UC014 Search Option

Use case ID:	014	Use case Name:	Search Option
Priority	014		
Actor	Buyers		
Use Case Summary	This use case allow buyers to view freelancers services and their reviews.		
Pre-Conditions	User should be logged in.		
Normal Follow of paths		Alternative path	
1.Buyer write service name on search bar.		System is busy.	
Exceptions:			
Database connection error occur.			
Post-conditions:			
Step no#	Description		
1.	Buyer see the freelancers services.		

2.4 Use Case Diagram

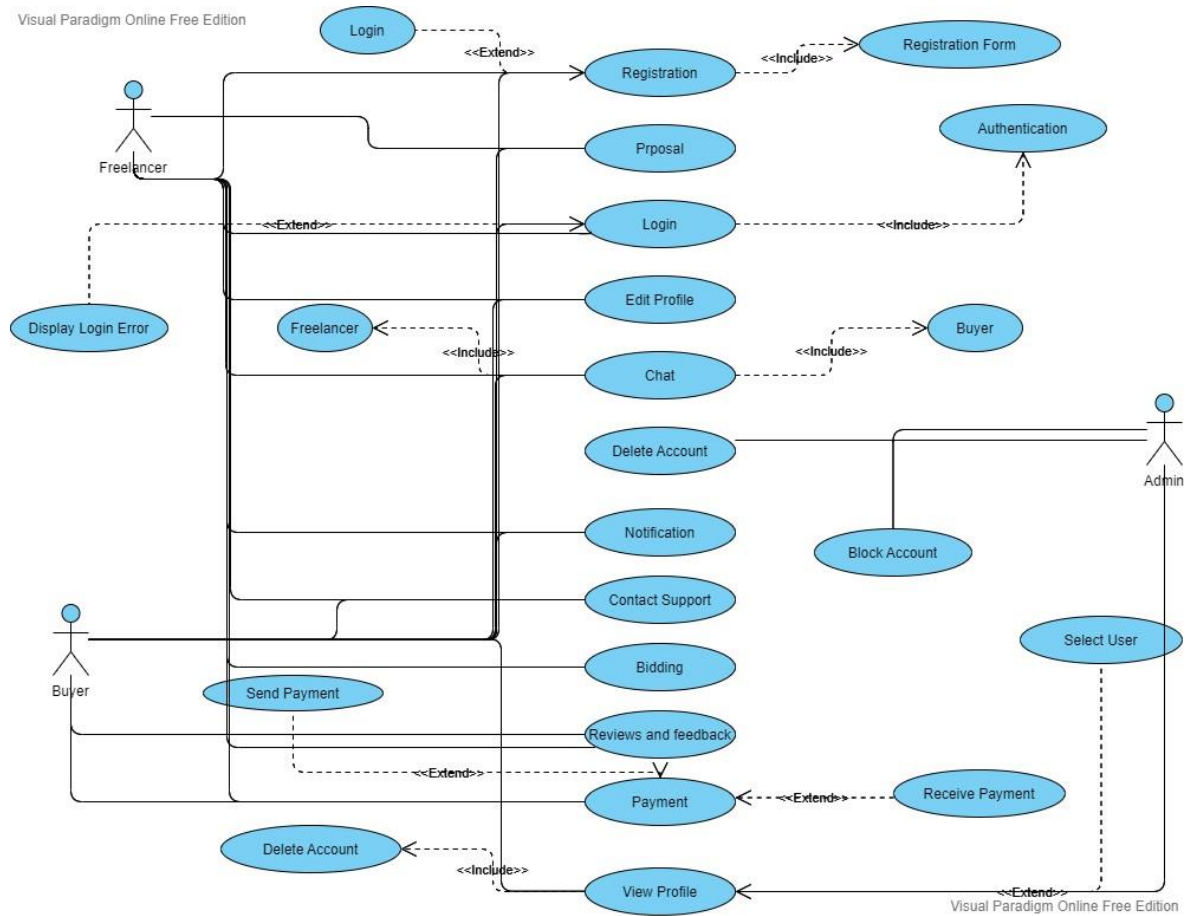


Figure 2 Use Case Diagram

3: Chapter 3 System Design

3.1 Activity Diagram

3.1.1 Sign Up

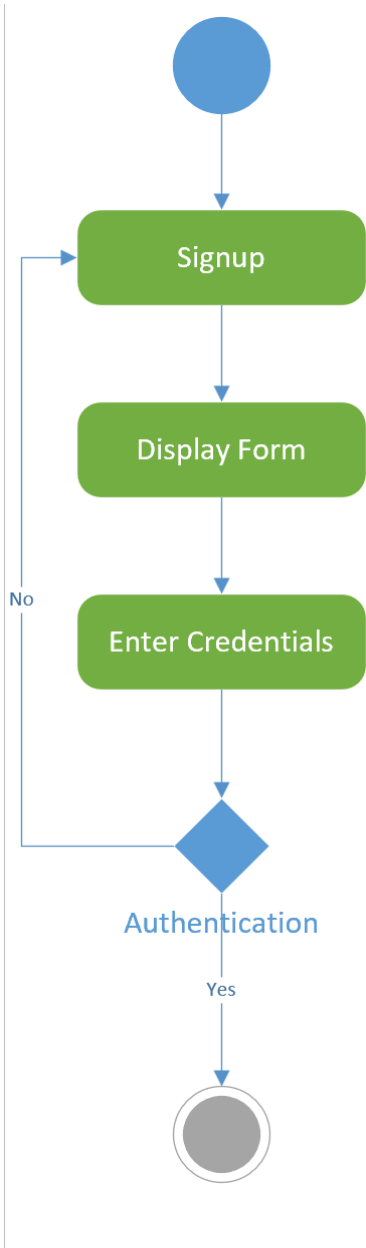


Figure 3 Signup Activity Diagram

3.1.2 Login

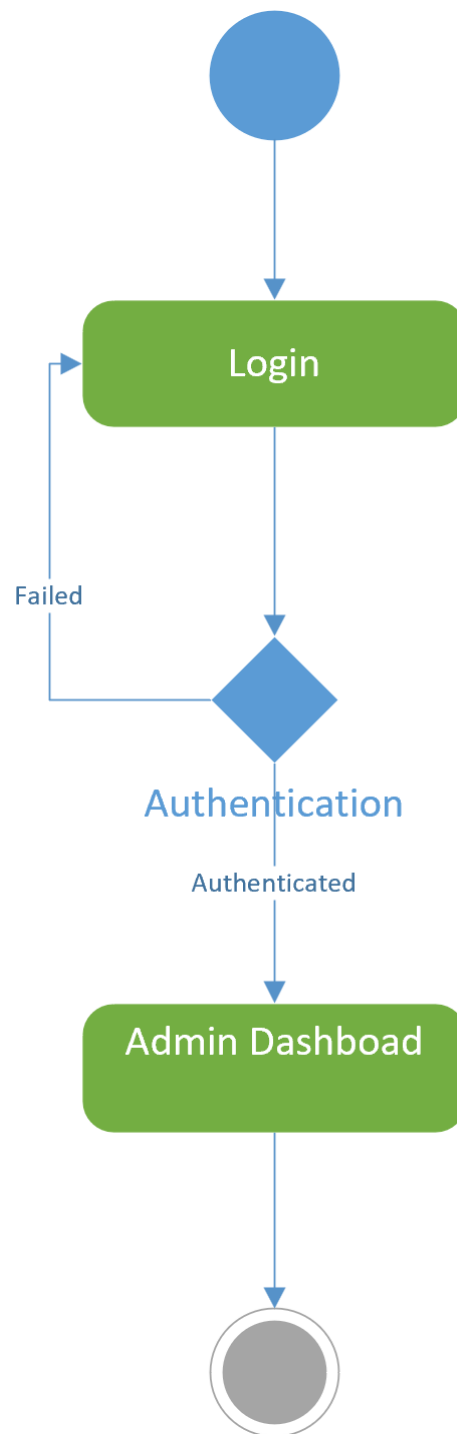


Figure 4 Login Activity Diagram

3.1.2.2 Buyer

3.1.3 Edit Profile

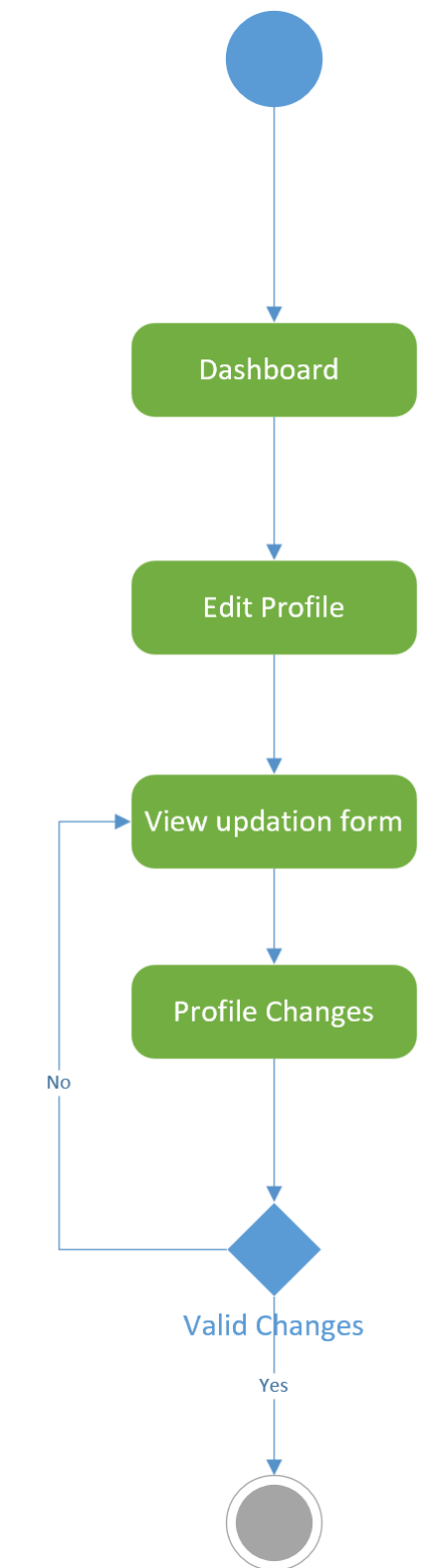


Figure 5 Edit Profile Activity Diagram

3.1.3.1 Freelancer

3.1.4 Delete Account

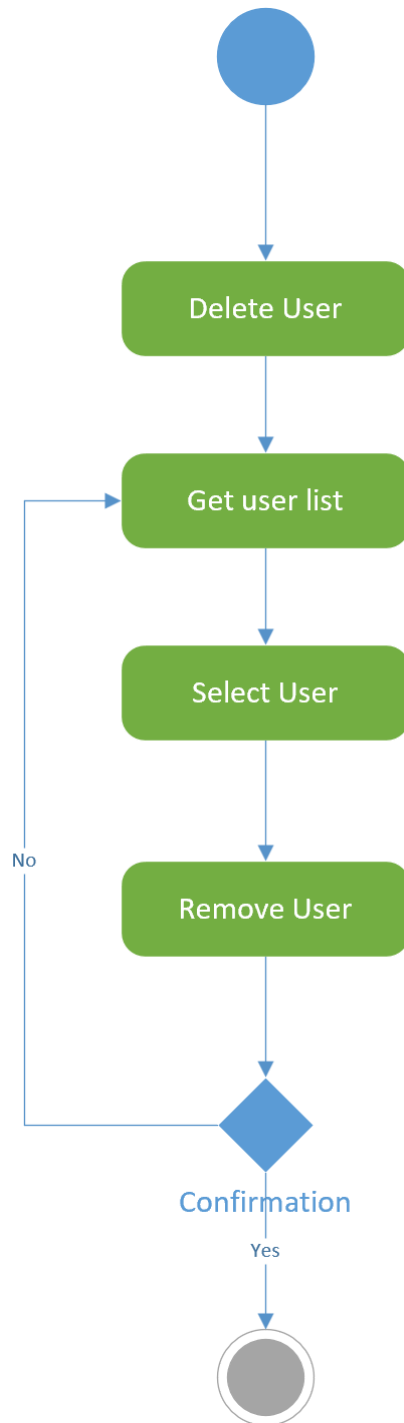


Figure 6 Delete Account Activity Diagram

3.1.5 Proposal

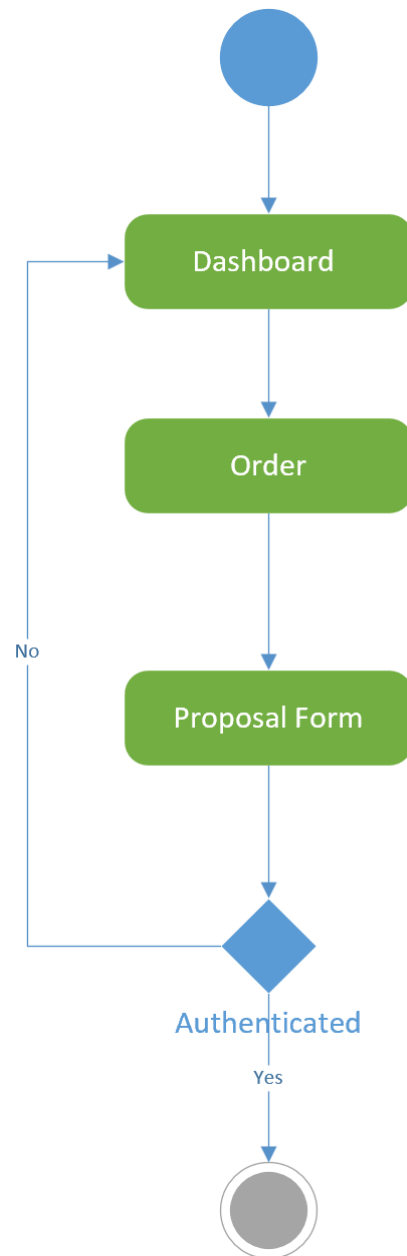


Figure 7 Proposal Activity Diagram

3.1.6 Bidding

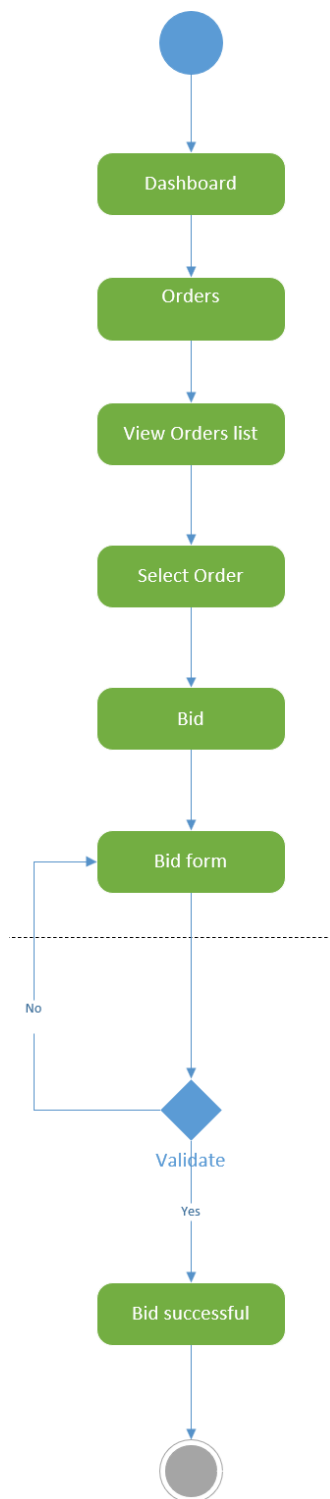


Figure 8 Bidding Activity Diagram

3.1.7 Review and Feedback

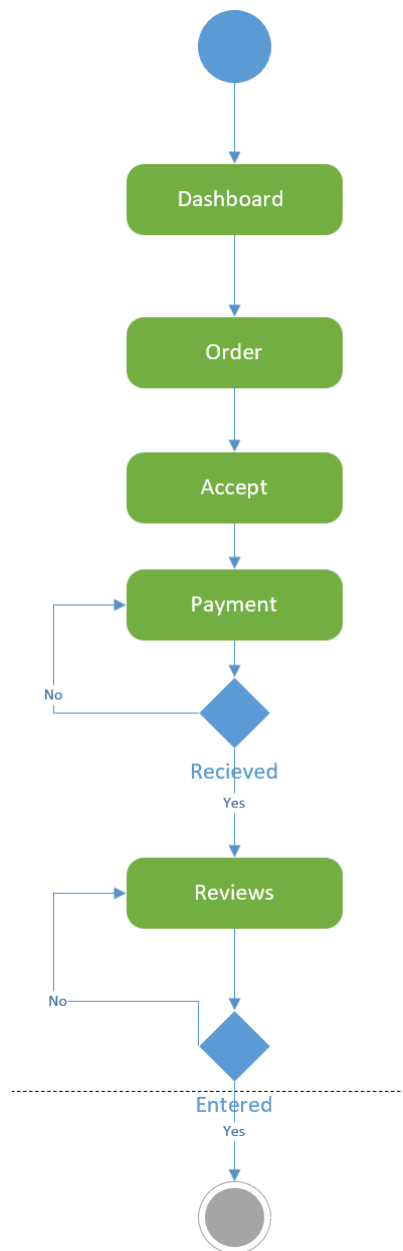


Figure 9 Review and Feedback Activity Diagram

3.1.8 Payment

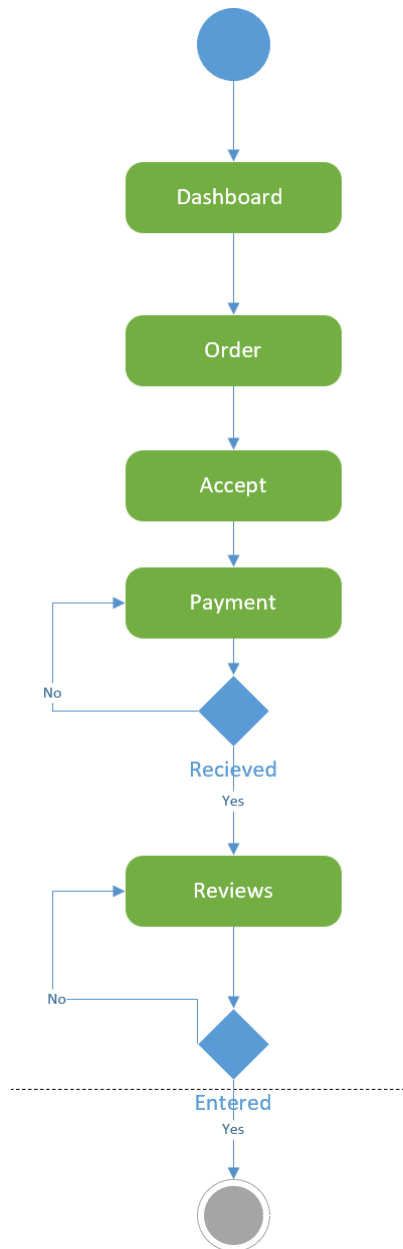


Figure 10 Payment Activity Diagram

3.1.9 Contact Support

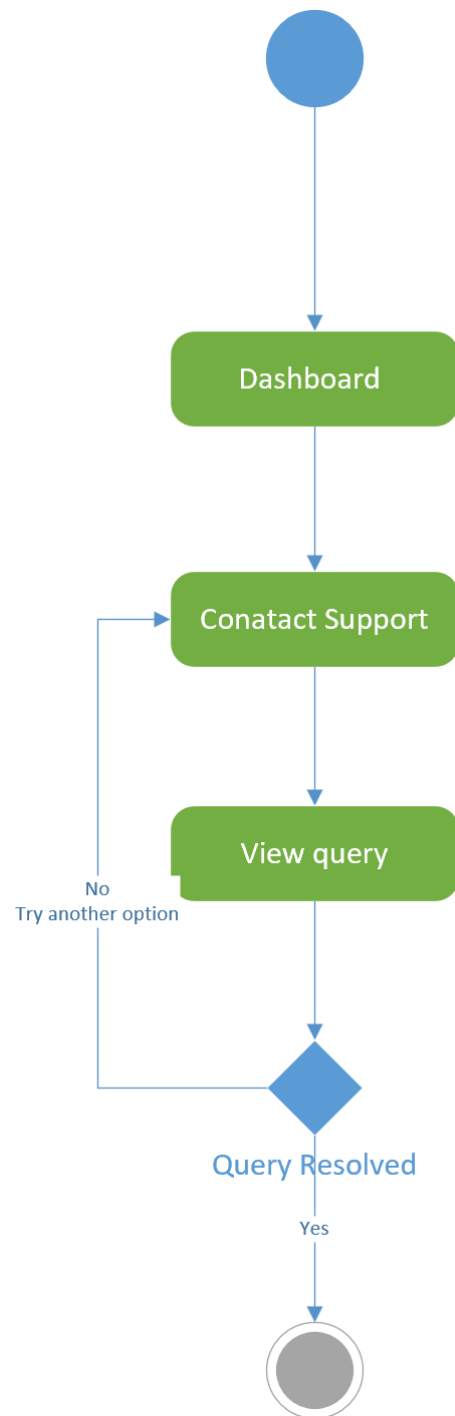


Figure 11 Contact Support Activity Diagram

3.1.10 Block Account

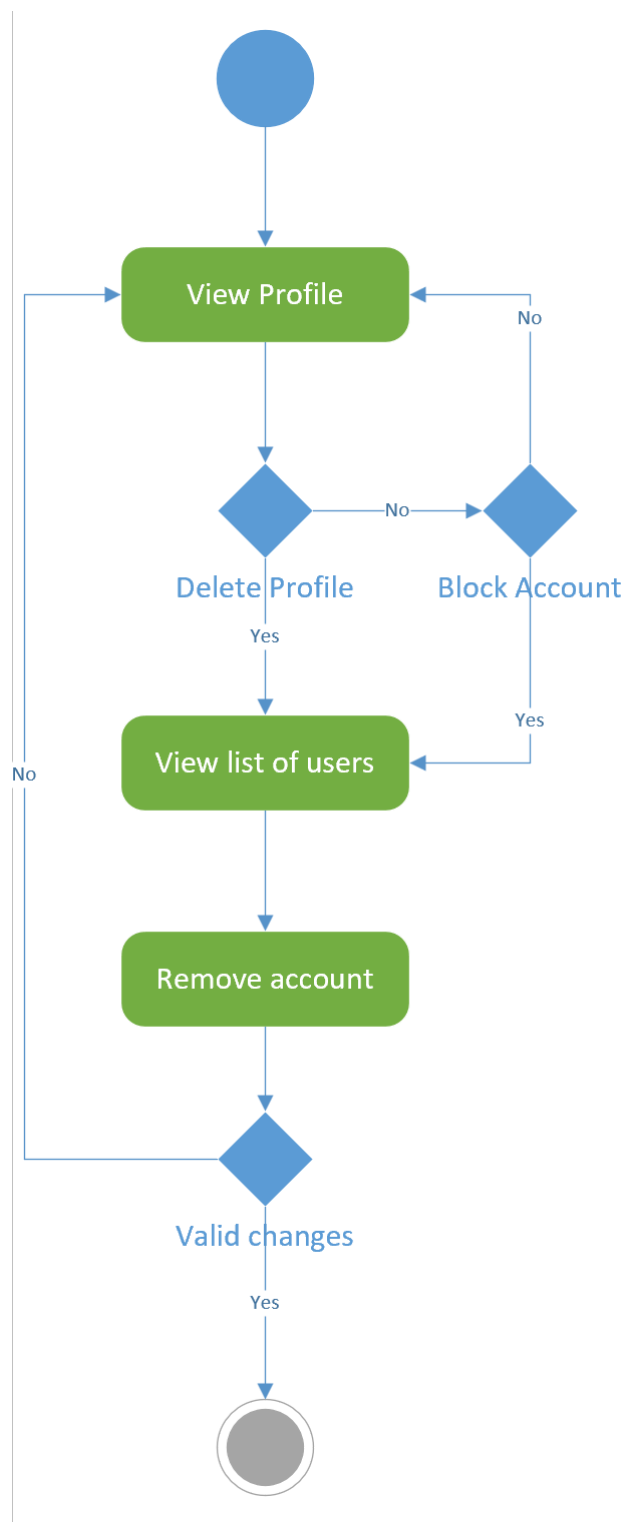


Figure 12 Block Account Activity Diagram

3.1.11 Notification

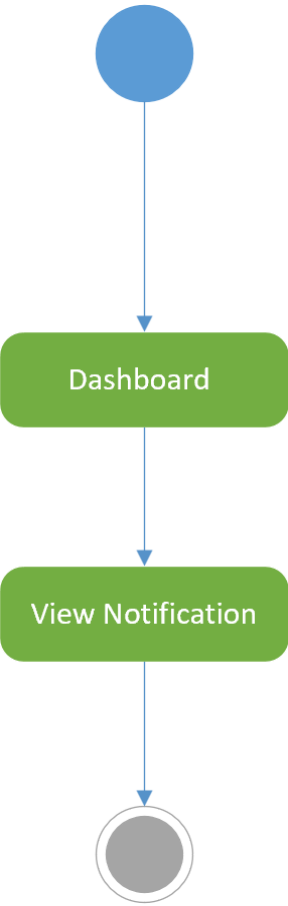


Figure 13 Notification Activity Diagram

3.1.12 Chat

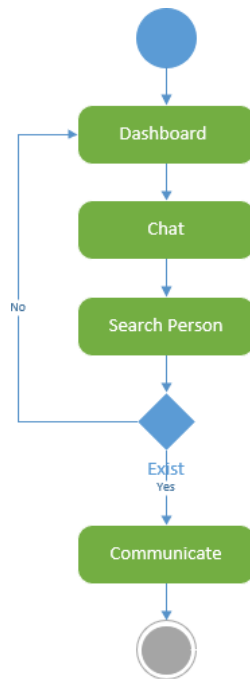


Figure 14 Search Option Sequence Diagram

3.1.13 View User Profile

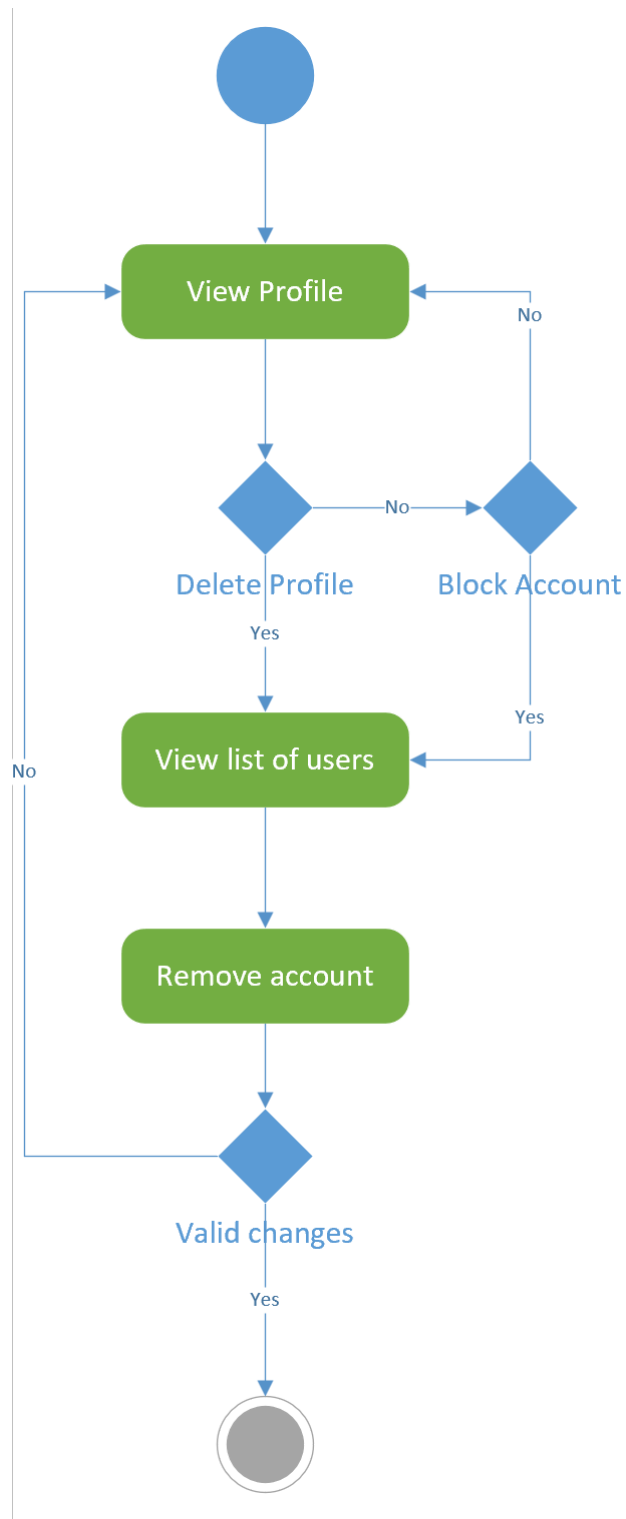


Figure 15 View User Profile Sequence Diagram

3.1.14 Search Option

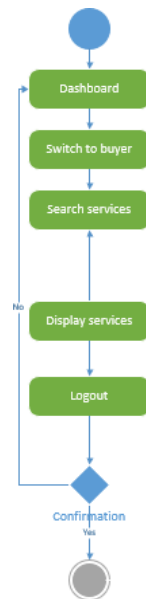


Figure 16 Search Option Activity Diagram

3.2 Sequence Diagram

3.2.1 Signup

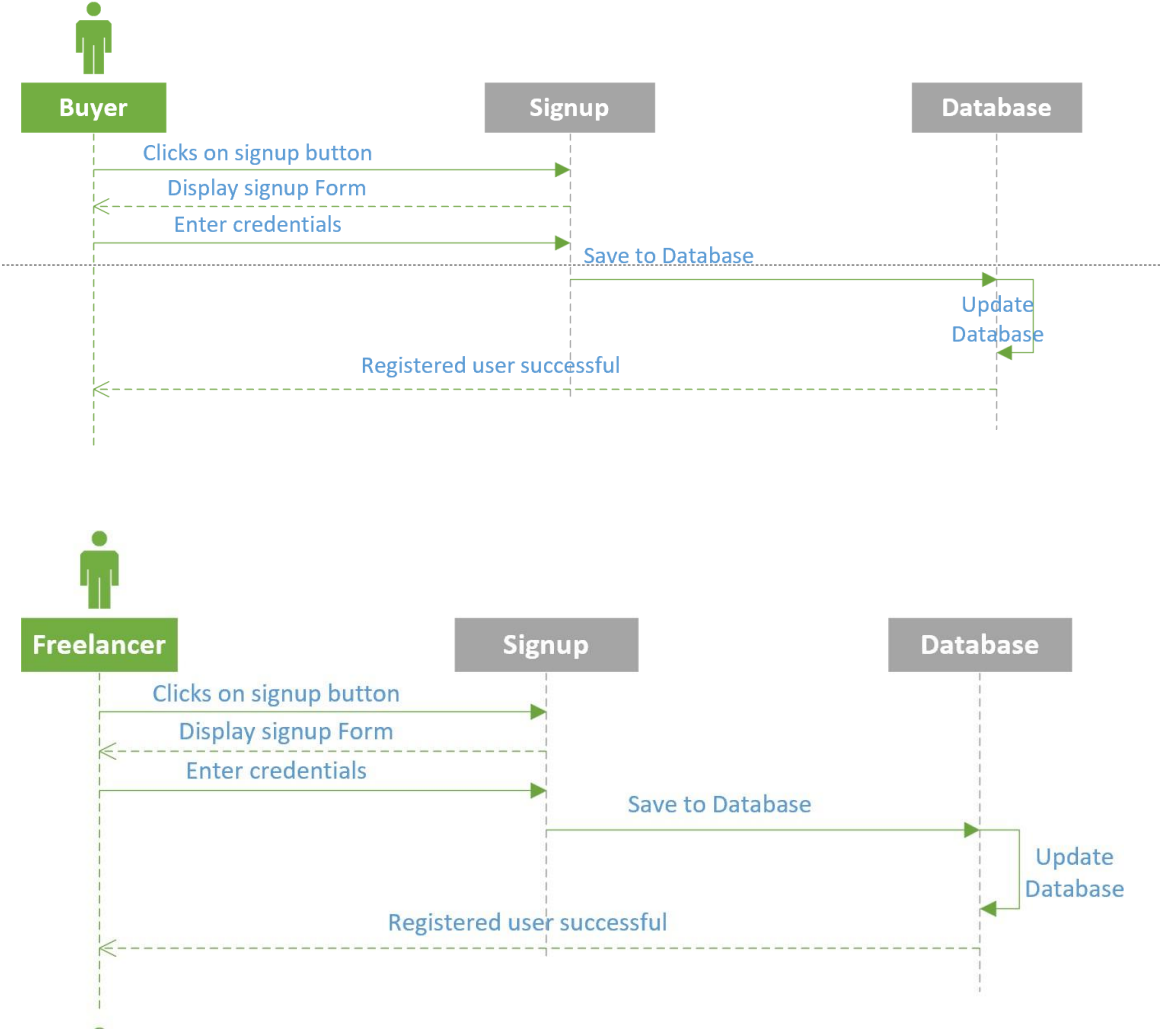


Figure 17 Signup Sequence Diagram

3.2.2 Login

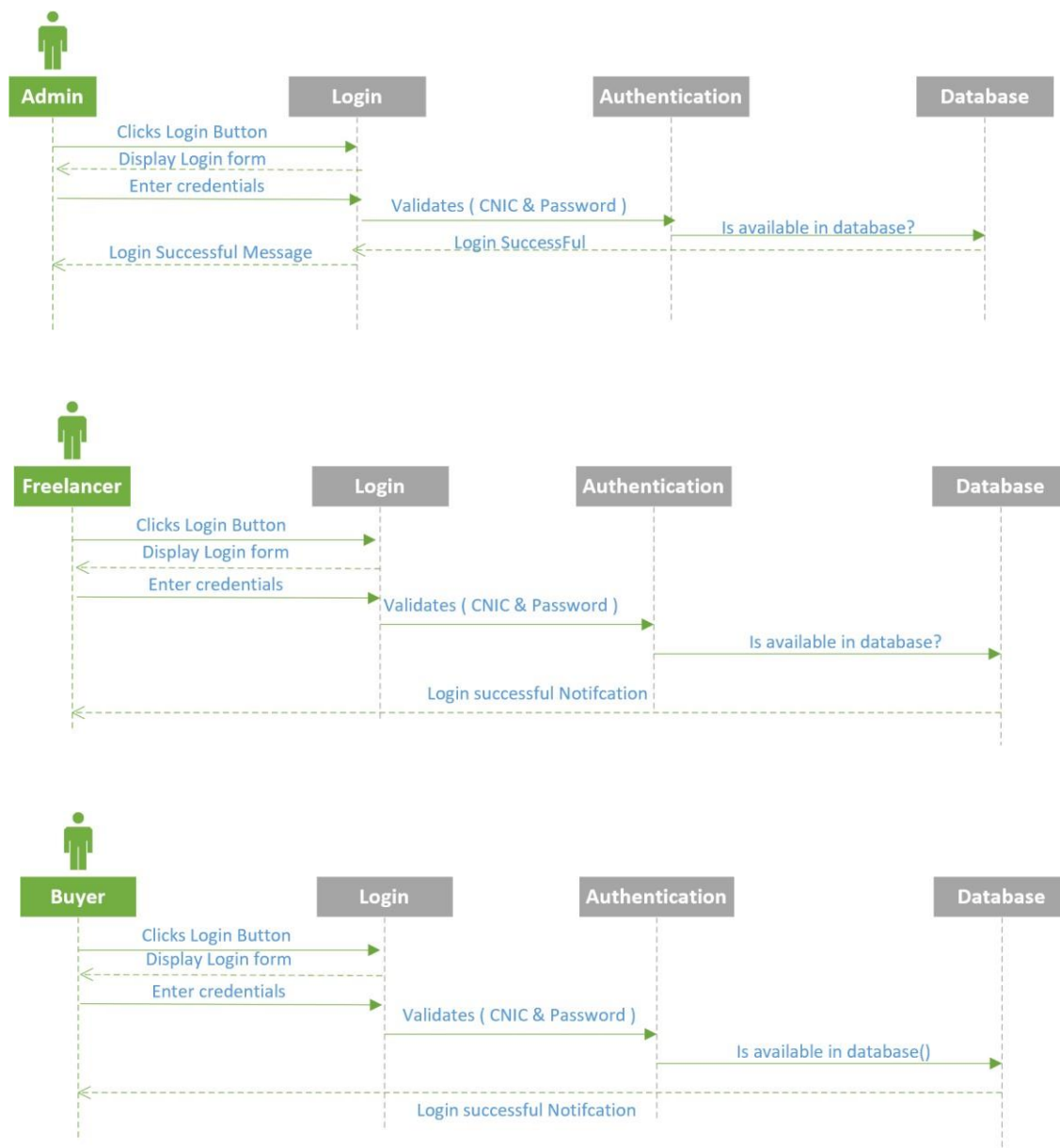


Figure 18 Login Sequence Diagram

3.2.3 Edit Profile

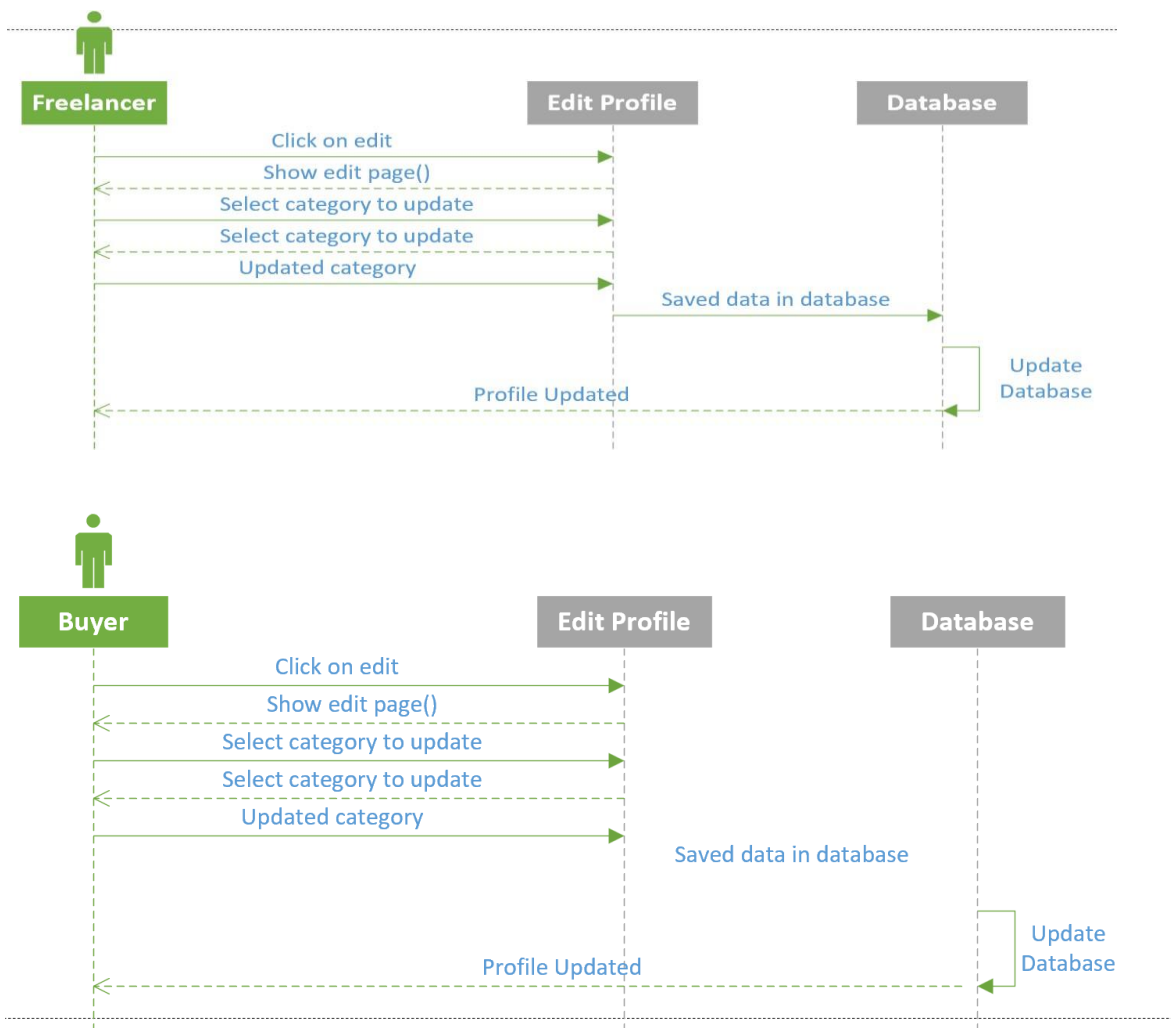


Figure 19 Edit Profile Sequence Diagram

3.3.4 Delete Account

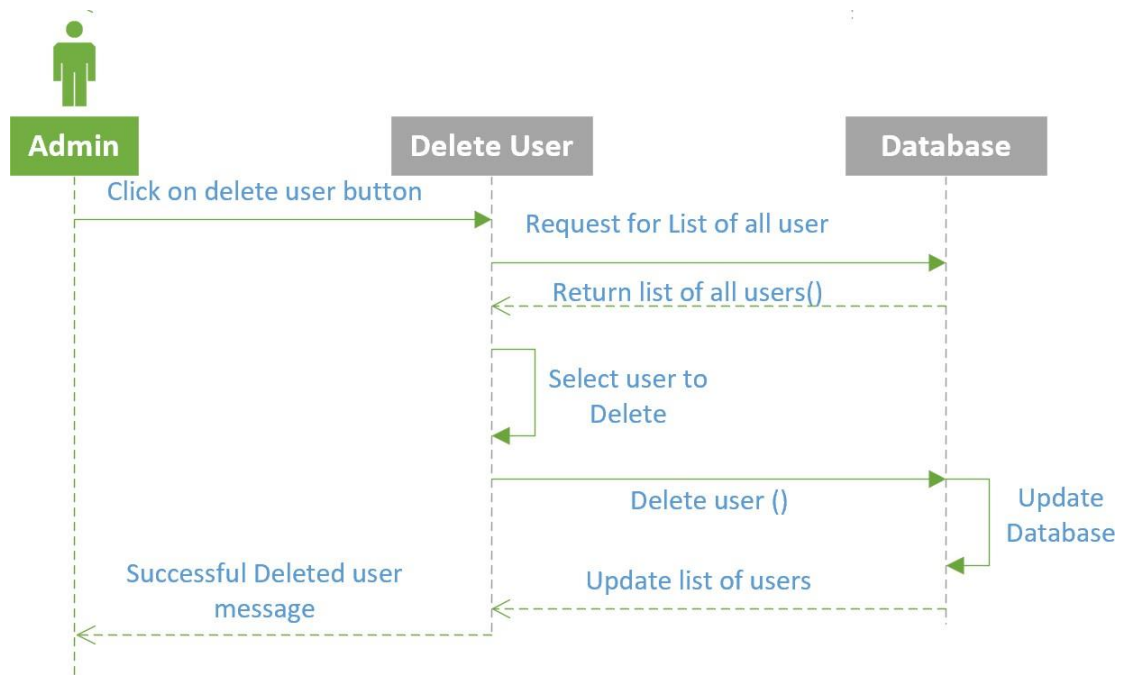


Figure 20 Delete Account Sequence Diagram

3.3.5 Proposal



Figure 21 Proposal Sequence Diagram

3.3.6 Bidding

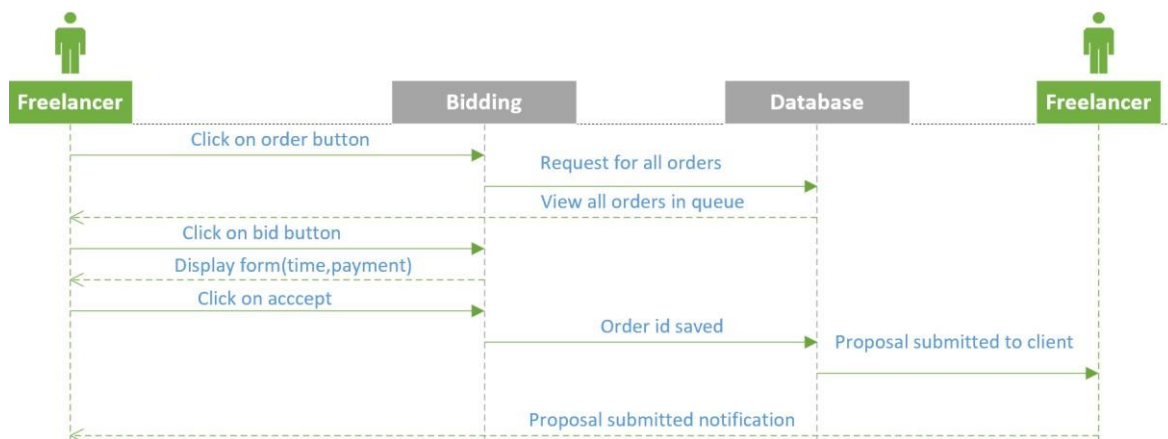


Figure 22 Bidding Sequence Diagram

3.3.7 Review and Feedback

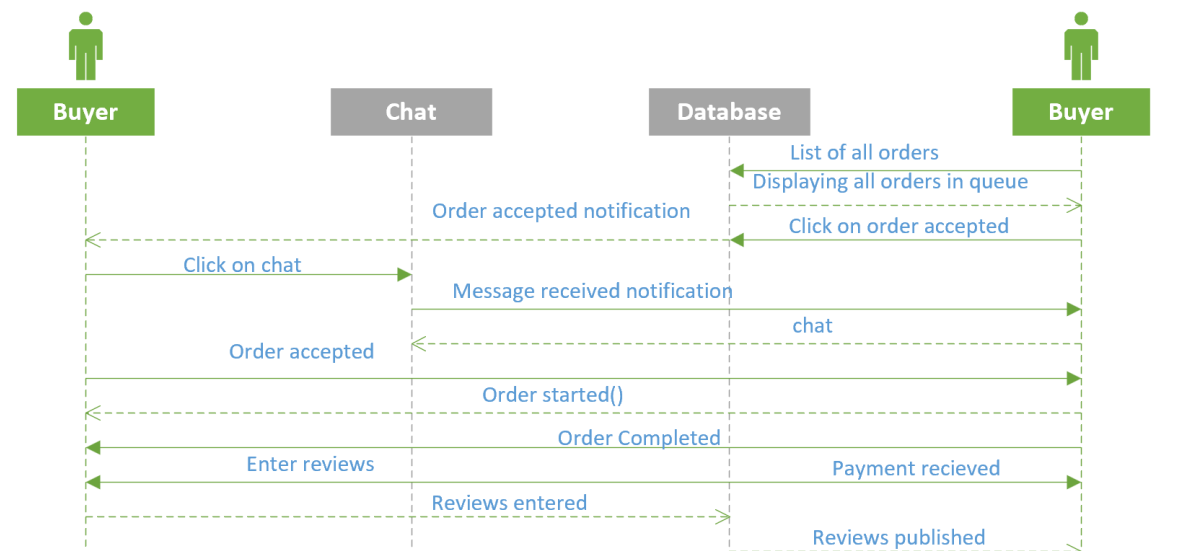


Figure 23 Review and Feedback Sequence Diagram

3.3.8 Payment

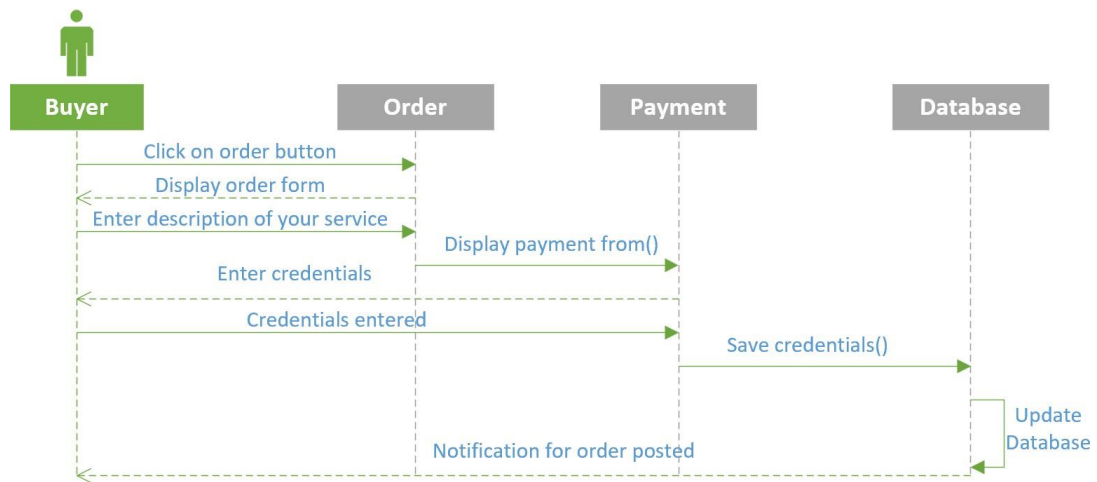


Figure 24 Payment Sequence diagram

3.3.9 Contact Support

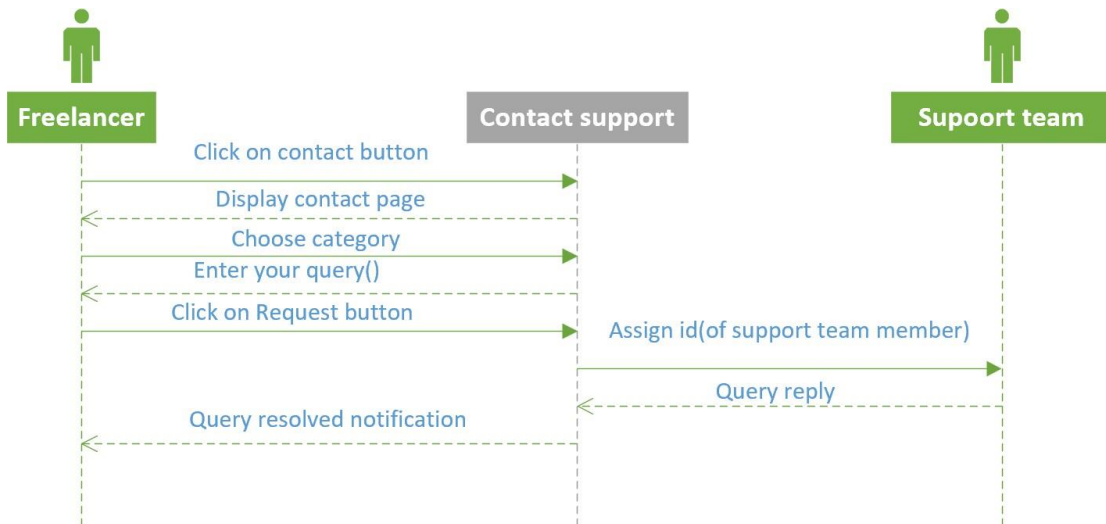


Figure 25 Contact Support Sequence Diagram

3.3.10 Block Account

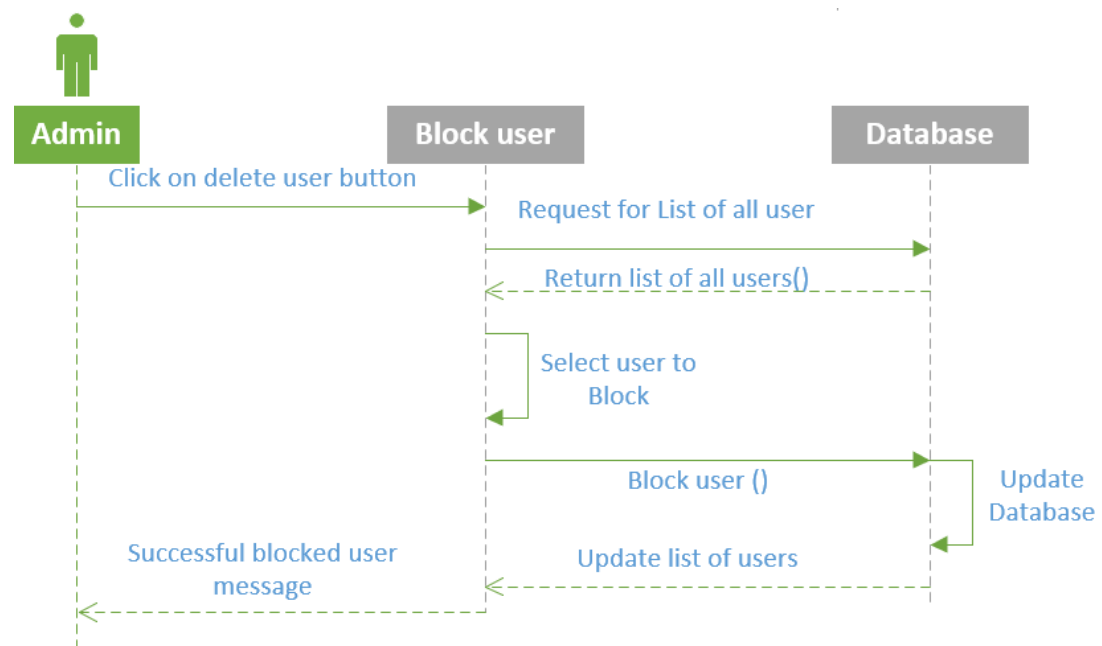


Figure 26 Block Account Sequence Diagram

3.3.11 Notification

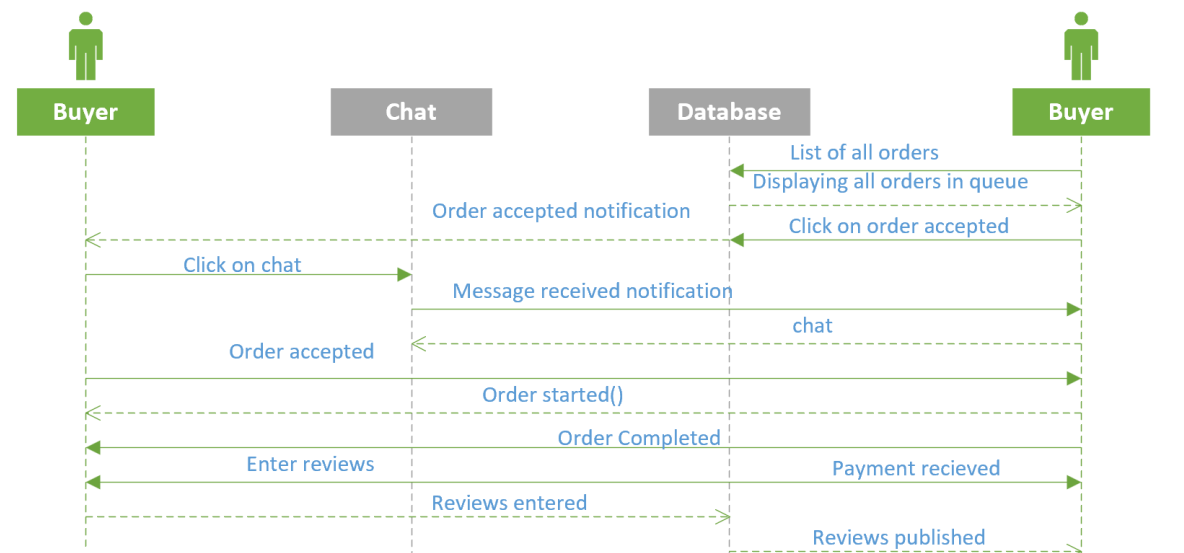


Figure 27 Notification Sequence Diagram

3.3.12 Chat

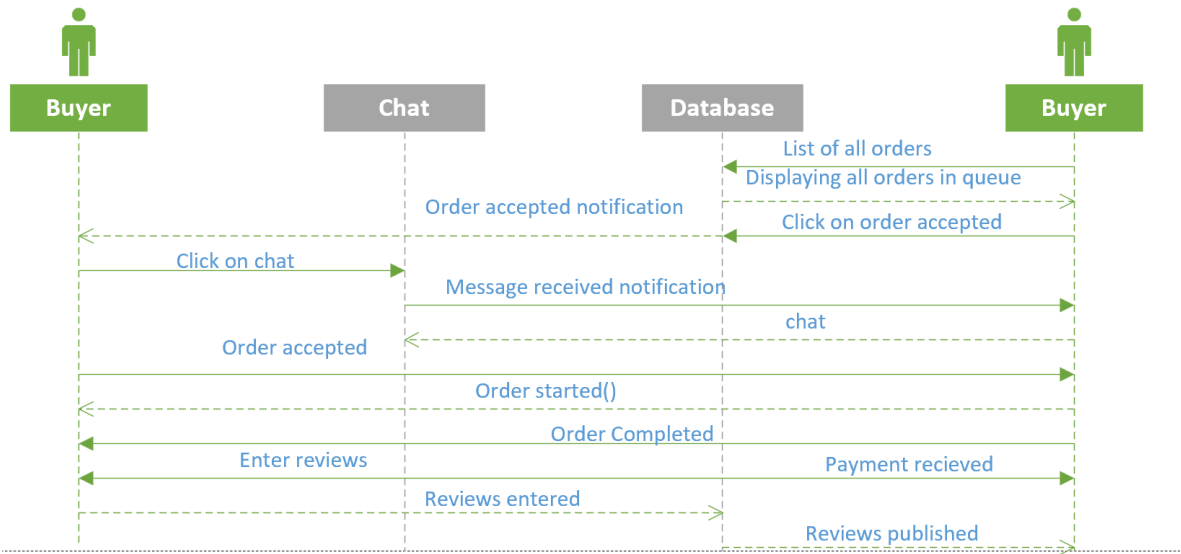


Figure 28 Chat sequence Diagram

3.3.13 View Freelancer Profile

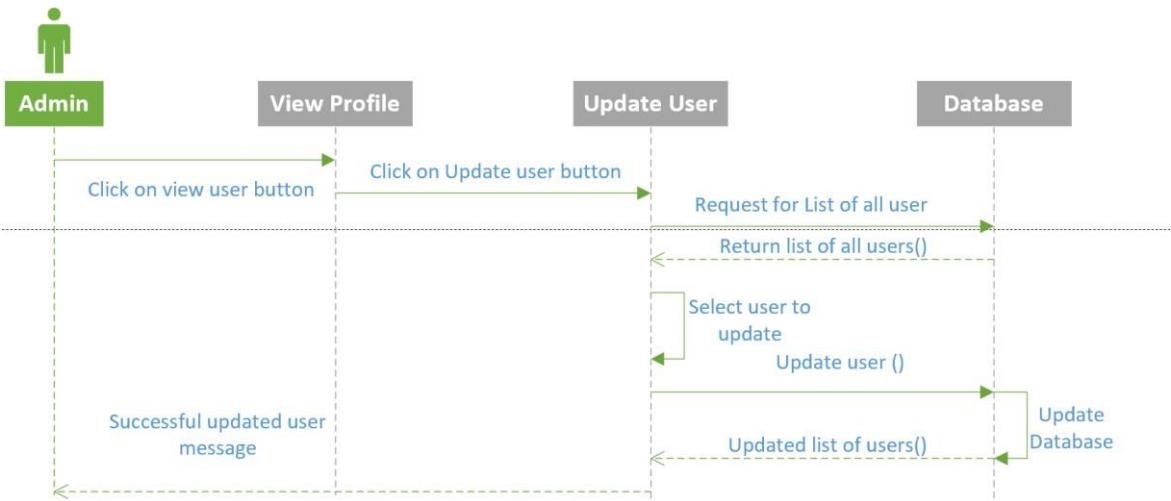


Figure 29 View Freelancer Profile Sequence Diagram

3.3.14 Search Option

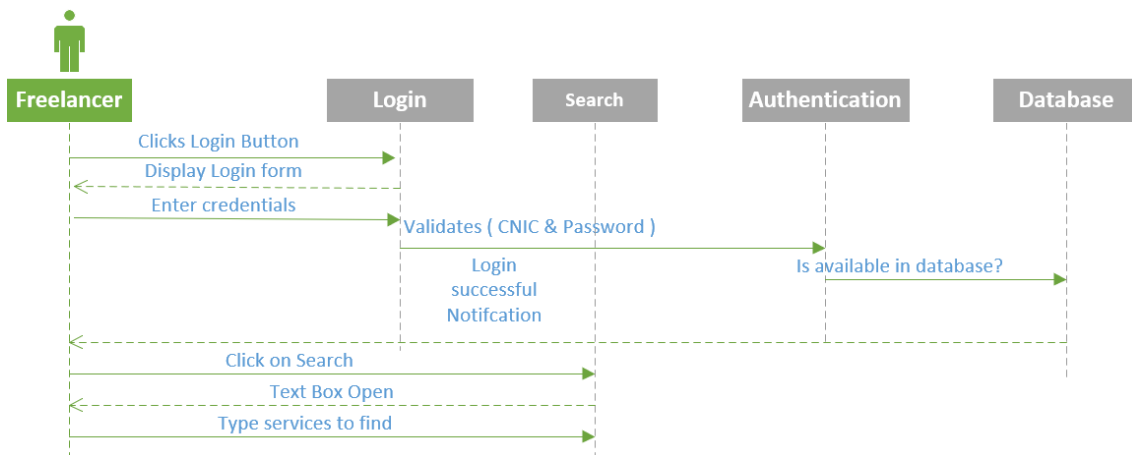


Table 30 Search Option Sequence Diagram

3.3.4 Gantt Chart

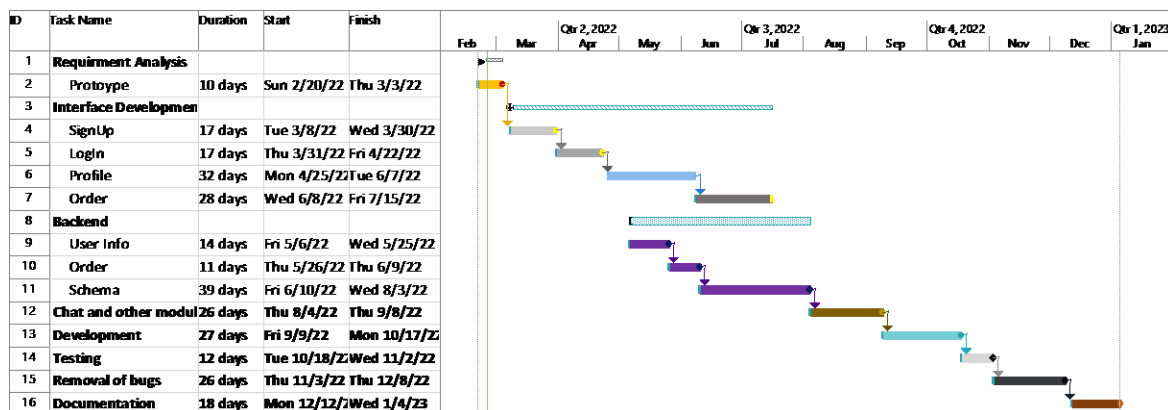


Figure 31 Gantt Chart

3.3.5 Collaboration Diagram

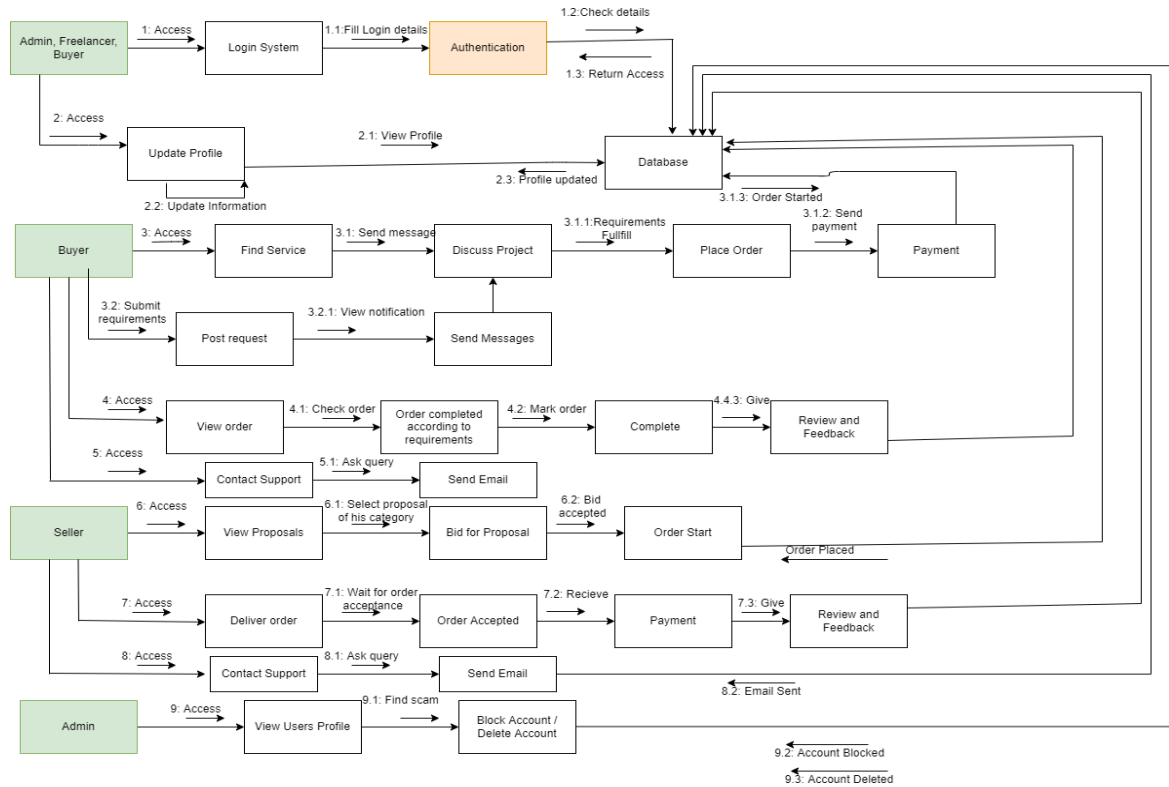


Figure 32 Collaboration Diagram

3.3.6 ERD

3.3.7 diagram

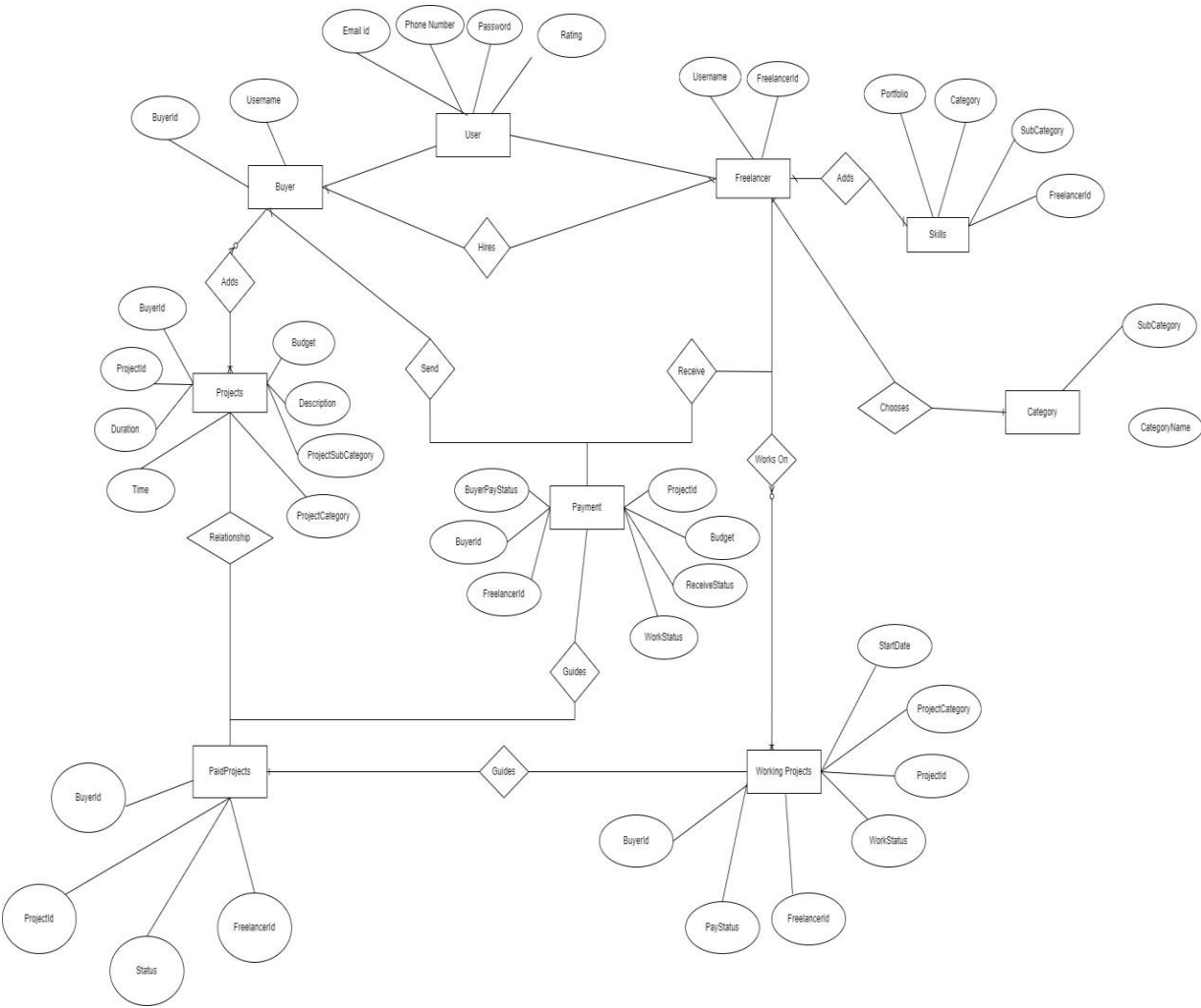


Figure 33 ERD Diagram

4: Chapter 4 Test Cases

Table 41 TC-01 Sign Up

Test Case No	TC-01
Use Case Name	Registration
Website Name	Work Without Walls
Input Summary	User register himself by giving valid CNIC, Cnic image front+back,email of string "abc123@gmail.com" and password Click on register button.
Output Summary	Success: Registered Successfully. Failure: Error message be displayed to user i.e "Username already exist or enter password contain special character and numbers".
Pre-Condition	No
Post-Condition	User be logged into the system in case of successful Sign Up.

Table 42 TC-02 Login

Test Case No	TC-02
--------------	-------

Use Case Name	Login
Website Name	Work Without Walls
Input Summary	Check the email text field that has an email address with @ symbol and password with special characters. Click on login button.
Output Summary	Success: User logged in successfully. Failure: Error message be displayed to user i.e "Username or Password is incorrect".
Pre-Condition	User must have an account.
Post-Condition	User redirected to the dashboard.

Table 43 TC-03 Edit Profile

Test Case No	TC-03
Use Case Name	Edit Profile
Website Name	Work Without Walls

Input Summary	User edit his profile by clicking on the button of edit profile. After editing, user be asked to save and preview his profile.
Output Summary	Success: Profile is edited successfully. Failure: Failed to edit profile.
Pre-Condition	User must be logged in.
Post Condition	User redirected to dashboard.

Table 44 TC-04 Delete Account

Test Case No	TC-04
Use Case Name	Delete Account
Website Name	Work Without Walls
Input Summary	User login into the system. User click on “Delete profile” button.
Output Summary	Success: Account is deleted successfully. Failure: Failed to delete the account (try later).
Pre-Condition	User must be logged in.
Post-Condition	No

Table 45 TC-05 Proposal

Test Case No	TC-05
Use Case Name	Proposal
Website Name	Work Without Walls
Input Summary	User click on the button proposal. Then he selects category and subcategory of the project. He enter delivery time and price of the project. Then he click on the submit button.
Output Summary	Success: Proposal is submitted successfully. Failure: Failed to submit proposal.
Pre-Condition	User must be logged in.
Post-Condition	User is navigated to the dashboard.

Table 46 TC06-Bidding

Test Case No	TC-06
Use Case Name	Bidding
Website Name	Work Without Walls

Input Summary	User click on the buyer requests. Then select the project and bid for that project. After that he click on submit button.
Output Summary	Success: Bid on the project is accepted. Failure: You have already bidded on the 10 projects.
Pre-Condition	User must be logged in.
Post-Condition	User get the job.

Table 47 TC-07 Review and FeedBack

Test Case No	TC-07
Use Case Name	Review and Feedback
Website Name	Work Without Walls
Input Summary	User click on the “Review and Feedback” button. Enter the rating in stars and give feedback. And click on “Submit” button.
Output Summary	Success: Review and feedback is submitted successfully. Failure: Faliure to upload feedback and review.
Pre-Condition	User must placed a project.
Post-Condition	User redirected to dashboard.

Table 48 TC-08 Payment

Test Case No	TC-08
Use Case Name	Payment
Website Name	Work Without Walls
Input Summary	Buyer give the payment by clicking the “Add Payment Method” button. He select bank account, enters money in dollars, ATM card number, issue date, expiry date and pin code.

Table 49 TC-09 Contact Support

Test Case No	TC-09
Use Case Name	Contact Support
Website Name	Work Without Walls
Input Summary	User click on “Contact Support” button. He enter his query and click on the submit button.
Output Summary	<p>Success: Query is submitted successfully and responded soon.</p> <p>Failure: Fail to add query. Try again.</p>
Pre-Condition	User must be logged in.
Post-Condition	User get the answer of his query.

Table 50 TC-10 Block Account

Test Case No	TC-10
Use Case Name	Block Account
Website Name	Work Without Walls
Input Summary	Admin search for the user account to block and click on “Block” button..
Output Summary	Success: Account is blocked successfully. Failure: Fail to block account.
Pre-Condition	Admin must be logged in.
Post-Condition	Admin is redirected to dashboard

Table 51 TC-11 Notification

Test Case No	TC-11
Use Case Name	Notification
Website Name	Work Without Walls
Input Summary	User click on “Notification” button for viewing the notifications.
Output Summary	Success: User view the notifications. Faliure: Fail to view notifications.
Pre-Condition	No
Post-Condition	No

Table 52 TC-12 Chat

Test Case No	TC-12
Use Case Name	Chat
Website Name	Work Without Walls
Input Summary	Users click on the “chat” button to communicate with each other.
Output Summary	Success: User communicate successfully. Failure: Fail to communicate.
Pre-Condition	User must be logged in.

Post-Condition	No
-----------------------	----

Table 53 TC-13 View Freelancer Profile

Test Case No	TC-13
Use Case Name	View Freelancer Profile
Website Name	Work Without Walls
Input Summary	User click on “category” he wants to search. Then user click on any “”freelancer profile for viewing his experties.
Output Summary	Success: User viewed the profile successfully. Failure: Failed to view freelancer profile.
Pre-Condition	User must be logged in.
Post-Condition	User is redirected to the dashboard.

Test Case No	TC-14
Use Case Name	Search Option
Website Name	Work Without Walls
Input Summary	User write the service he wants in search bar and click on search button.
Output Summary	Success: User find the services successfully. Failure: Failed to view services.

Pre-Condition	User must be logged in.
Post-Condition	User is redirected to the dashboard.

5: Chapter 5 Conclusion

The proposed project is user friendly and secure the user data. It's platform for clients and freelancers where they can discuss their work and get job. The proposed system also has the team option where users can do team work. CNIC Verification be done reduce scam and fraud. There is only 10% tax on every order. The proposed project facilitate the students also. Our mission is to provide a platform which is helpful for users.

Tools and Technologies

IDEs: Visual Studio Code

Languages: MERN stack, React JS, Node JS, Express, JavaScript, HTML, CSS, MongoDB

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