



Daffodil
International
University

Online Social Education Site/Candle

Submitted by:

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Section: C

This Project report has been submitted in fulfillment of the requirements
for the Degree of Bachelor of Science in Software Engineering.

Department of Software Engineering
Daffodil International University

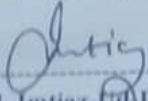
APPROVAL

This Project titled "Social Education Site/Candle", submitted by Md. Medheddi Hasan ID: 152-35-1274 to the Department of Software Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc in Software Engineering and approved as to its style and contents.

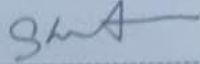
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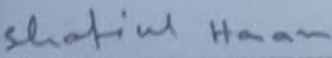
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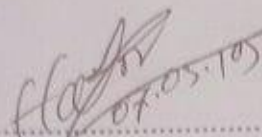
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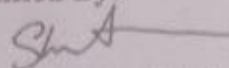
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DECLARATION

We hereby declare that we have taken this project under the supervision of Md Shohel Arman, Lecturer, Department of Software Engineering, Daffodil International University. We also declare that neither this project nor any part of this has been submitted elsewhere for award of any degree.


.....
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Acknowledgment

We would like to take this opportunity to express our gratitude to the Following Professionals of who contributed to this project.

All the praise to almighty God for bestowing us with the courage, knowledge, health and wisdom to carry out this project. We are greatly indebted to our parents, without their endless financial & moral support, patience and prayers this effort will be impossible.

Firstly, we would like to express our appreciation to our first academic Supervisor, **Md Shohel Arman** for the guidance and encouragement for finishing this project. I am thankful for his inspirations to work harder and for motivating me to be better Lecturer, Department of SWE, Daffodil International University.

Dedication

We dedicated this project to all of those humble beings who have aided us in any way to become what we are today. Whose sacrifices seeded our success; especially our parents & family members who have felt our pain beyond us and showered us with never ending prayers and support. We love them and deem them as a divine source of inspirations.

Abstract

The project “Candle” is a social education site. The primary objective of project is to developing a web based online service, platform or site to focus on building and reflection of social relation among student and teacher. Online social education site (Candle.com) is an online based education site Where student can use class lecture video, books PDF, online quiz and massages Using the Online social education system. Every student can contact her teacher through the massage with any problem. The system user profile will have all details. Any college, school or educational institute can use this system. Quiz is very useful for Educational Institute to prepare an exam, save the time that will take to check the paper and prepare mark sheets. It will help the Institute to testing of students and develop their skills. If any student posts problems after studying, then any user of this system will help. Everyone will be friends of all and friend request can be given. It is the more efficient and effective methods of assessing distant students and teacher

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Chapter 1

Introduction

In this site, Teacher and student can class lecture video, books PDF, online Quiz and messages using the Online social media Sites for education system. Teacher can do upload class lecture video and online quiz site and Quiz be the type of MCQ. There will be 30 seconds for every question. Every student can contact her teacher through the message with any problem. The system user profile will have all details any college, school or educational Institute can use this system. Everyone will be friends of all and friend request can be given. Before a user must to be registered. It is the more efficient and Effective methods of assessing distant students and teacher.

1.1 Project overview:

This project will consist of creating a UML design of Candle application which is the social site on internet. The project will be complete at 28 April, 2019. Modules of the Candle application will include a login ;create an account, Upload pictures and book, quiz and receive message and log out.

Technical Perspective: We have been working in a real life project using php, java Script Web Platform- Node.js, laraval Framework and MySQL Database. Daffodil International University

Domain Perspective: Avoiding management system, we have tried to do something new like education system which is not so common in our country.

1.2 Project Purpose:

This project is intended to make the online social education system easier to the teacher and the student. Hopefully this online system will decrease the complexity of those processes.

1.2.1 Background:

Technical Perspective: We have been working in a real life project using Node.js, laraval Framework and MySQL Database.

Domain Perspective: Avoiding management system, we have tried to do something new like Online social Education Sites which is not so common in our Country.

1.2.2 Benefits:

By successful completion of this project, users will be able to-

- Online exam system.
- Online chat other person.
- Can upload books, Mcq.
- can view books and post any problem.
- Ssc and hsc student using the system.

1.2.3 Goals:

The main goals of this project is to-

- Make a user friendly and easy interface which users can books and Quiz their view easily.
- Make almost all the books available
- Quick mcq exam easly.

1.3 Stakeholders:

Primary: 1. Users/Members

2. Admin

3. Employees

Secondary: 1. Environment

2. Security

3. Government

1.4 Project Schedule:

1.4.1 Gantt Chart:



Figure 1: Gantt chart for social education site

1.4.2 Milestone:

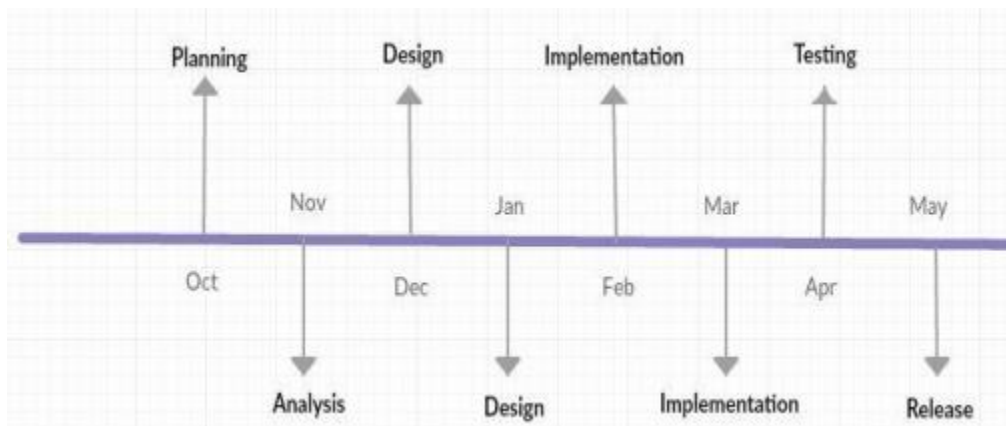


Figure 2: Milestone for social education site

Chapter 2

Software Requirement Specification:

The complete requirement specification based on the elicitation process is described In this section.

2.1 Functional Requirements:

The Functional Requirements Specification is designed to be read by a general Audience. Readers should understand the system,

FR-01	Manage Users
Description	This module helps admin to approve a user sign up. Also get the information of users. Admin can also delete a user from the system.
Stakeholders	Admin

FR-02	Manage Books
Description	By this module admin can add new books. Admin can also update and delete a books if stock out of need to be updated.
Stakeholders	Admin

FR-03	Manage Quiz's
Description	By this module admin can add new quiz slide. Admin can also update and delete a quiz slide if stock out of need to be updated.
Stakeholders	Admin

FR-04	Manage users
Description	This module helps admin to approve a user sign up. Also get the information of users.
Stakeholders	Admin

FR-05	Users Registration
Description	Without register user in this system he/she will only be able to see the books. To view books and quiz's the user must register in this system. This module will help the users to register in this system.
Stakeholders	Users

2.2 Data Requirements:

There are no specific Data requirements.

2.3.1 Speed and Latency Requirements:

The system is required a fair amount of speed especially while buying a medicine And adding medicine to cart.

PR01	The page refresh rate
Description	While the user's browsing the system the page will show within a Second. It also depends on user's internet connection.
Stakeholders	Admin,Users

2.3.2 Accuracy Requirements:

There are no specific precision and accuracy requirements

2.3.3 Capacity Requirements:

The system is able to manage all the information users, books and quizzes.

PR02	Initially the system will store all the registered user information
Description	The information of users will be stored in database.
Stakeholders	Admin, Users

PR03	The system will store all the books, quiz's information
Description	The information of books, quizzes will be stored in database.
Stakeholders	Admin

2.4 Dependability Requirements:

The flexibility of current frameworks encourage system architects to Reconfiguration Mechanisms that refocus the available, safe resources to support. The most critical services rather than over-provisioning to build failure-proof system. Therefore, these requirements are essentials.

2.4.1 Reliability Requirements:

As this is a medicine related project that's why it will be very sensitive for customers If we make any kind of mistake. So the main goal of our project is to give fast home Delivery and keep reliable medicines. In this way we will be able to achieve the Reliability of our customers

2.4.2 Availability Requirements:

Availability is very important for this project

DR01	The system must be available 24x7
Description	• The system must be available 24 hours in a day • The system must be updated regularly
Stakeholders	Admin

2.4.3 Robustness and Fault Tolerance Requirements:

The system will almost ensure 0% crush in any single minor error and don't give any wrong calculation.

DR02	The system handles over access and system errors
Description	Sometimes multiple users can over access to this system. The system can handle multiple user access
Stakeholders	N/A

2.4.4 Safety Critical Requirements:

There are no specific safety critical requirements.

2.5 Maintainability and Supportability

Supportability is the degree to which system design characteristics and planned Logistics resources meet system requirements. Supportability is the capability of a total system design to support operations and readiness needs throughout the Life-cycle of a system at an affordable cost.

2.5.1 Maintenance Requirements

MS01	The system helps to update any information in any time
Description	The admin can update the books,quizzes information anytime.
Stakeholders	Admin

2.5.2 Supportability Requirements

In order to understand the system's behavior on a technical support required by the system operator. The reason for reading them might be

- ☐ System malfunction has occurred and the system operator has to find the exact point of time when this happened
- ☐ System produces wrong results and the developers must be able to reproduce the data flow through the system
- ☐ Hacker tried to breach the system's security mechanisms and the system operator must understand what he did

2.5.3 Adaptability Requirements

There are no specific adaptability requirements

2.6 Security Requirements

There are no access requirements beside those that have been outlined in the below:

- ☐ The software must validate all user input to ensure it does not exceed the size specified for that type of input
- ☐ The server must authenticate every request accessing the restricted Web pages
- ☐ After authenticating the browser, the server must determine whether that

- browser is authorized to access the requested restricted Web pages
- ☐ The system must have security controls to protect against denial-of-service attacks
- ☐ The system must encrypt sensitive data transmitted over the Internet
- ☐ The system must encrypt sensitive data transmitted over the Internet

To get access to this system or a specific module the system must provide a central authentication mechanism. In order to prevent anyone to exploit stolen all users password must be encrypted in hash process.

2.6.1 Access Requirements

To get access to the system, the system provides authorization/authentication way. This system uses various modules.

SR01	The system provides security strategies.
Description	The system is designed in way that allows all modules to access a Mechanism that provides security services.
Stakeholders	Admin, Users

2.6.2 Integrity Requirements

To protect credentials of user from being stolen, all passwords are stored in Encrypted form. The Requirements significantly reduces the value of stolen User credentials, it's not easy to decrypt the password.

2.6.3 Privacy Requirements

The system provides a protection of the database in the server. However, the system will have to increment this level of protection because of the personal data made available on the system & the larger share of people that will be having access to it through the system's registration. The user's privacy will be granted by the limited access that the log in process is going to give to the database.

SR02	All data will be protected
Description	The main requirement in the context is the generation of Alumni Member's data for analysis.
Stakeholders	Admin, Users

2.7 Usability and Human Integrity Requirements

These Requirements define how to meet the physical and cognitive needs of the intended users of your website or application

2.7.1 Ease of Use Requirements

The system is easy to use and can easily be understandable.

UH01	The system must be usable for Alumni member's with all associate stakeholders
Description	The system indicates the several possibilities that the alumni member has to go on in using the system. The alumni members are allowed to undo any of the operation.
Stakeholders	Admin,Users

2.7.2 Understand-ability and Politeness Requirements

This section describes more requirements of DIU Alumni system to add more features in future

UH02	The features of DIU Alumni System
Description	The system is more efficiently ease of use more added features .The System is understand-ability for both user. The system will not use any Term that is not specified in this system.
Stakeholders	Admin,Users

2.7.3 Accessibility Requirements

There are no access requirements beside those that have been outlined in the below:

AR-1: Log in as a Admin

AR-2: Log in as an Executive Alumni

AR-3: Log in as a General Member

AR-4: Log out as a Admin

AR-5: Log out as an Executive Alumni

AR-6: Log out as a General Member

To get access to this system or a specific module the system must provide a central authentication mechanism. In order to prevent anyone to exploit stolen all users password must be encrypted in hash process.

2.7.4 User Documentation

UH03	The system developer documentation
Description	To develop this project we have specified requirement of user Documentation. The teams are involved to this project documentation.
Stakeholders	System Developer

2.7.5 Training Requirements:

2.8 Look and Feel Requirements

The look and feel requirements describe the intended spirit, the mood. These requirements specify the intention of the appearance, and are not a detailed design of an interface.

2.8.1 Appearance Requirements

It should be clear to the admin and alumni which fields need to be filled and which can be left blank in this system.

LF01	Labels of mandatory fields must be bold
Description	Labels of mandatory fields must be bold to identify them as being of Mandatory.
Stakeholders	Admin

2.8.2 Style Requirements

We will provide a web based user interface. This requirement does not only define the necessity to use a css but although the requirements regarding the css's content as well as css framework like bootstrap.

LF02	The look and feel must be controllable using style sheet.
Description	The styling of the elements of the web based user interface will be Defined using css, JS and bootstrap.
Stakeholders	Admin, System Developer

2.9 Operational and Environmental Requirements

This requirements focus on how the users will operate the system, including Interfaces and interoperability with other systems. The requirements Establish how well and under what conditions the system must perform.

2.9.1 Expected Physical Requirements

There are no specific expected physical requirements

2.9.2 Requirement for Interfacing with Adjacent System

There is no specific interfacing with adjacent system requirements

2.9.3 Release Requirements

There are no specific release requirements but in the project schedule section it was described briefly.

2.10 Legal Requirements

These requirements consider any violence of rules and regulation and which rules should be followed to maintain this system

2.10.1 Compliance Requirements

There are no specific compliance requirements

2.10.2 Standard Requirements

There are no specific standard requirements

Chapter 3

3.1 use Case Diagram:

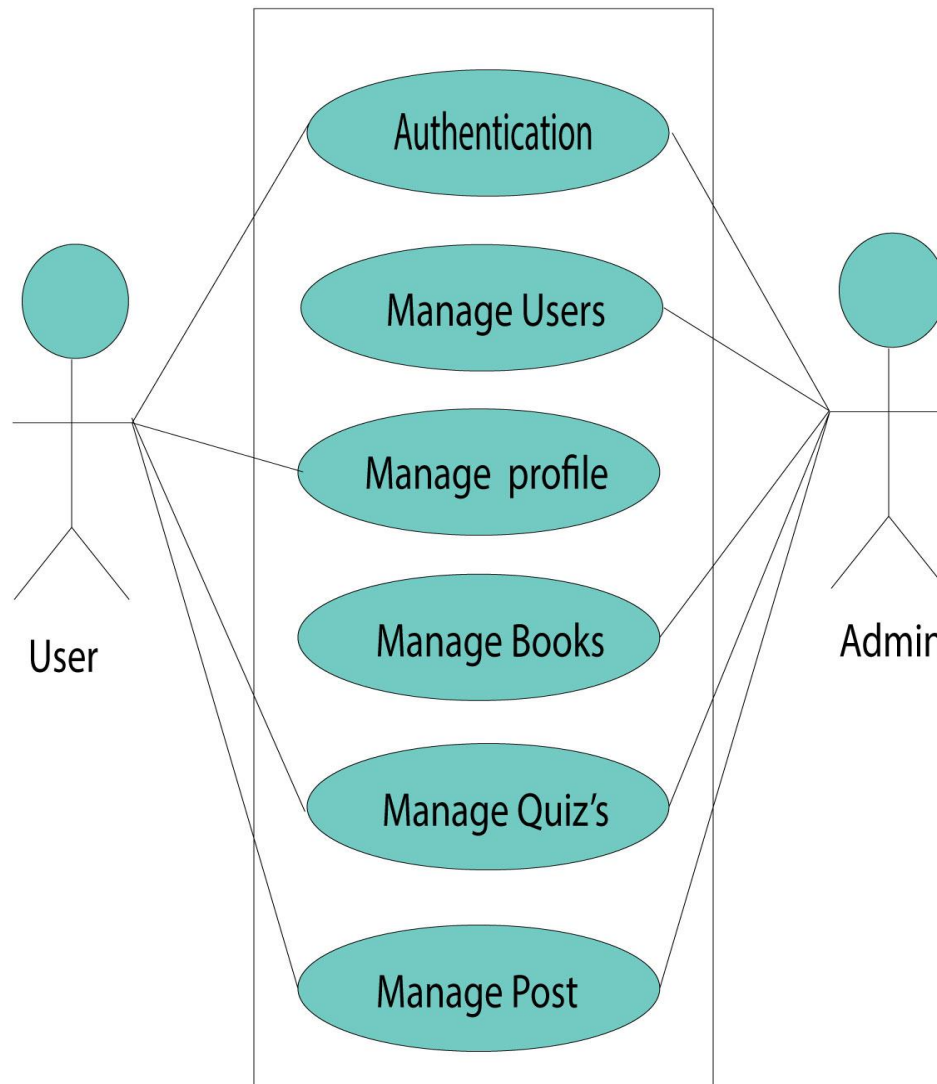


Figure 3:Use Case Diagram

3.2 Use case Description:

Use Case	Login	
Goal	User is login important to education from the system and for Admin login is important for accessing the system.	
Preconditions	Must sign up and give correct username and password.	
Success End Condition	Enter into the system and access all the facilities.	
Failed End Condition	Can't valid or can't access the whole system.	
Primary Actors:	Users	
Secondary Actors:	Admin	
Trigger	Log into the system.	
Step Action	Step	Action
	1	Sign up to the system
	2	Give a username
	3	Give password
	4	Time of login give correct username and password
	5	Hit the login button
Alternative Flows	Step	Branching Action
Quality Requirements	Step	Requirement
Quality Requirements	1	Must not share the username and password to others

Use Case	Manage Profile	
Goal	User can update their information like photo, about, Email, and password.	
Preconditions	Must sign up and give correct username and password.	
Success End Condition	Updated information.	
Failed End Condition		
Primary Actors:	Users	
Secondary Actors:	Admin	

Trigger	Log into the system.	
Description / Main Success Scenario	Step	Action
	1	Update the password
	2	Change photo.
	3	Change about
	4	Change Email
Alternative Flows	Step	Branching Action
Quality Requirements	Step	Requirement
Quality Requirements	1	Should update the password regularly

Use Case	Manage Users	
Goal	Check the User's activity, add books and add mcq. If needed block a user.	
Preconditions	Admin must log in into the system	
Success End Condition	All the valid users will be able to use post, exam, book ,friend request.	
Failed End Condition	False users with wrong information can harm the system.	
Primary Actors:	Admin	
Secondary Actors:	Admin	
Trigger	Manage users.	
Description / Main Success Scenario	Step	Action
	1	Log in to the system as admin
	2	Check the activity of the users
	3	Remove users if found any fraud.
Alternative Flows	Step	Branching Action
Quality Requirements	Step	Requirement
Quality Requirements	1	Must give a warning to customer before remove from the system

Use Case	Manage Books	
Goal	Admin can upload their books and Users can be books read.	
Preconditions	Must log in into the system	
Success End Condition	Enter into the system and access all Books.	
Failed End Condition	Can't valid or can't access the whole system	
Primary Actors:	Users	
Secondary Actors:	Admin	
Trigger	Manage Books.	
Description / Main Success Scenario	Step	Action
	1	Log in as user
	2	Check availability of books.
	3	Add new books with proper picture and descriptions.
Alternative Flows	Step	Branching Action
Quality Requirements	Step	Requirement
Quality Requirements	1	Always use proper description and right picture so that a User can identify the book easily.

Use Case	Manage Quiz's	
Goal	Admin can upload their Quiz's and Users can be mcq exam.	
Preconditions	Must log in into the system	
Success End Condition	Enter into the system and access all Quiz's.	
Failed End Condition	Can't valid or can't access the whole system	
Primary Actors:	Users	
Secondary Actors:	Admin	
Trigger	Manage Quiz's.	
	Step	Action

Description / Main Success Scenario	1	Log in as user
	2	Check availability of Quiz's.
	3	Add new MCQ
Alternative Flows	Step	Branching Action
Quality Requirements	Step	Requirement
Quality Requirements	1	Check carefully before right answer.

3.3 Activity Diagram:

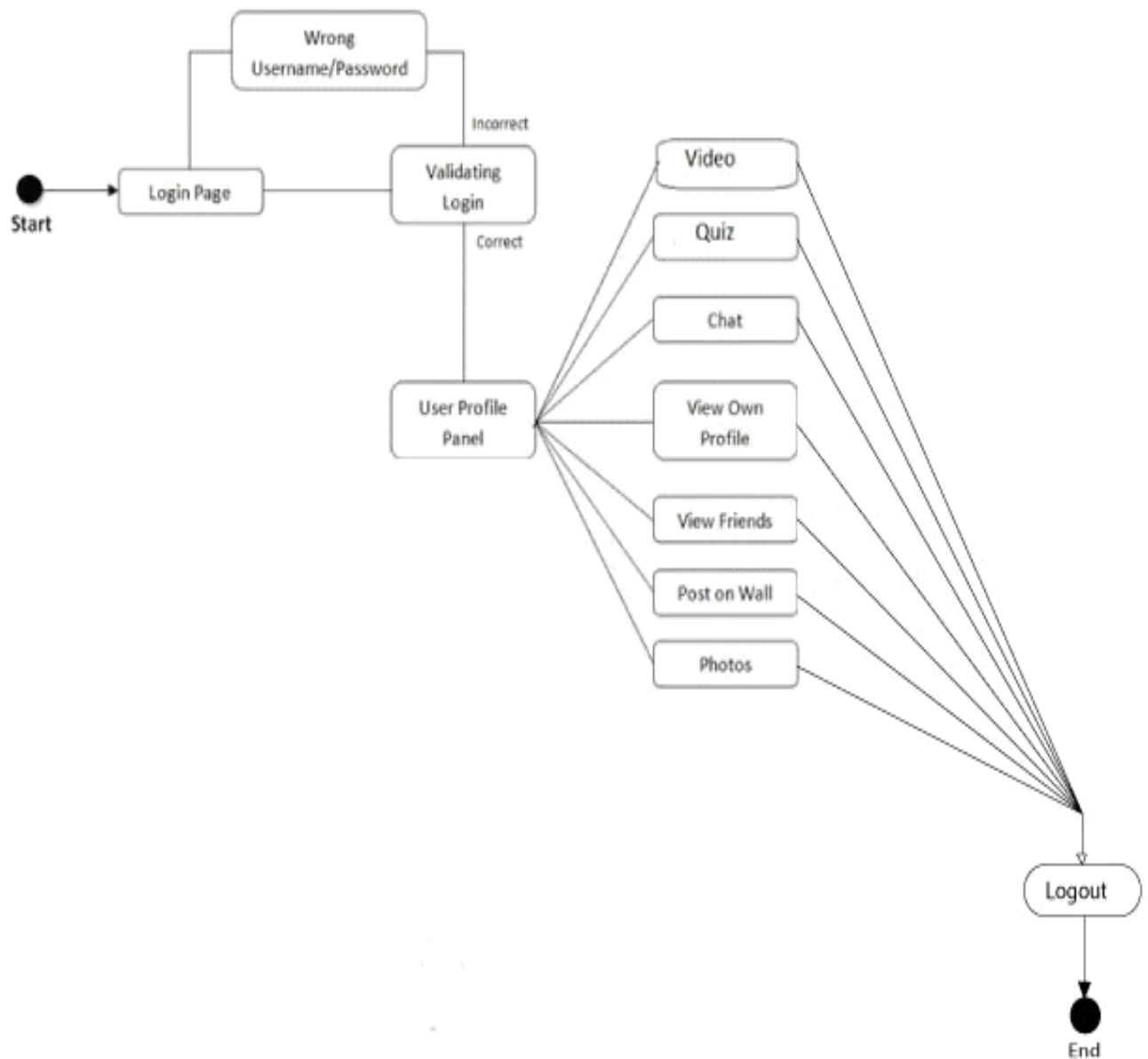


Figure 4: Activity Diagram

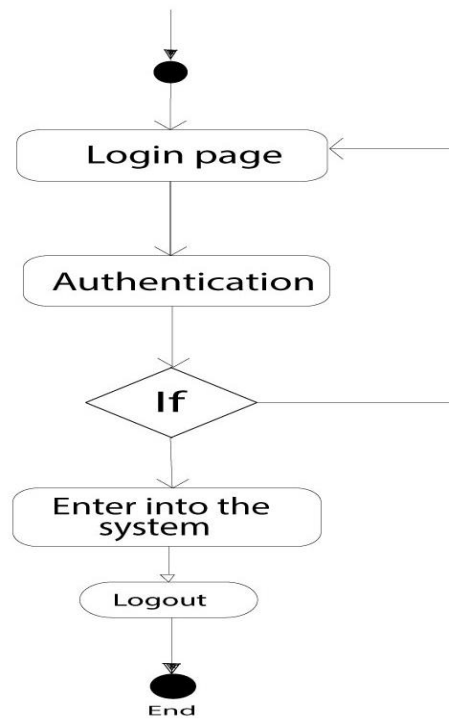


Figure 5: Activity Diagram for Login

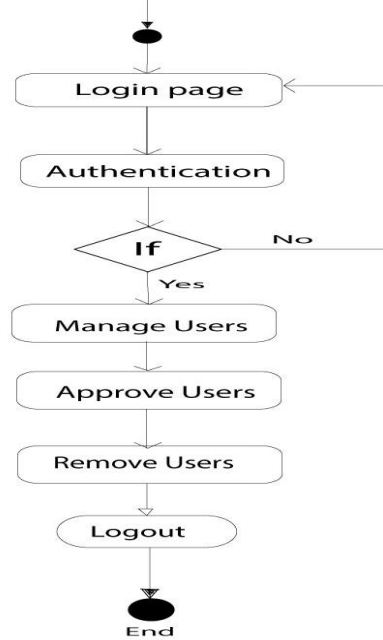


Figure 6: Activity Diagram for Manage Users



Figure 7: Activity Diagram for Edit profile

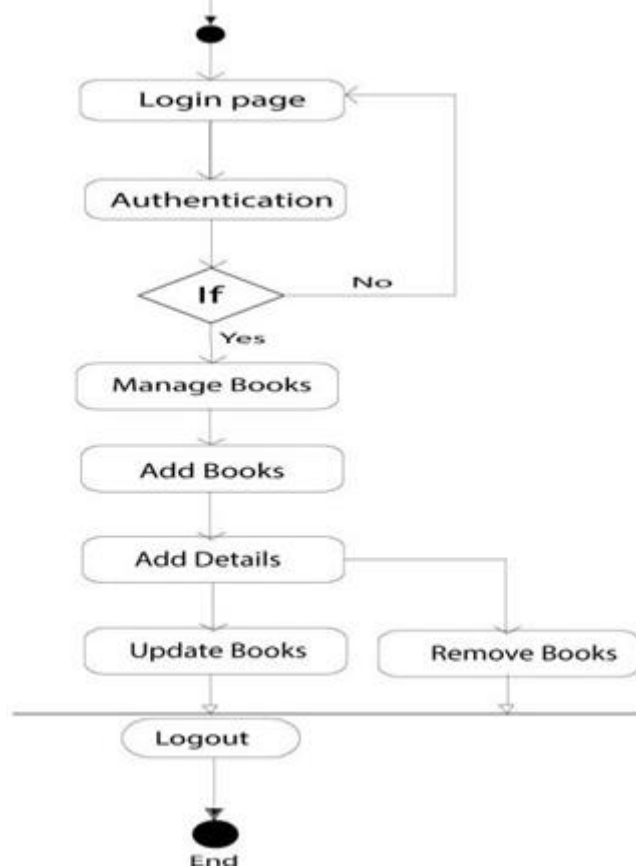


Figure 8: Activity Diagram for Manage Books

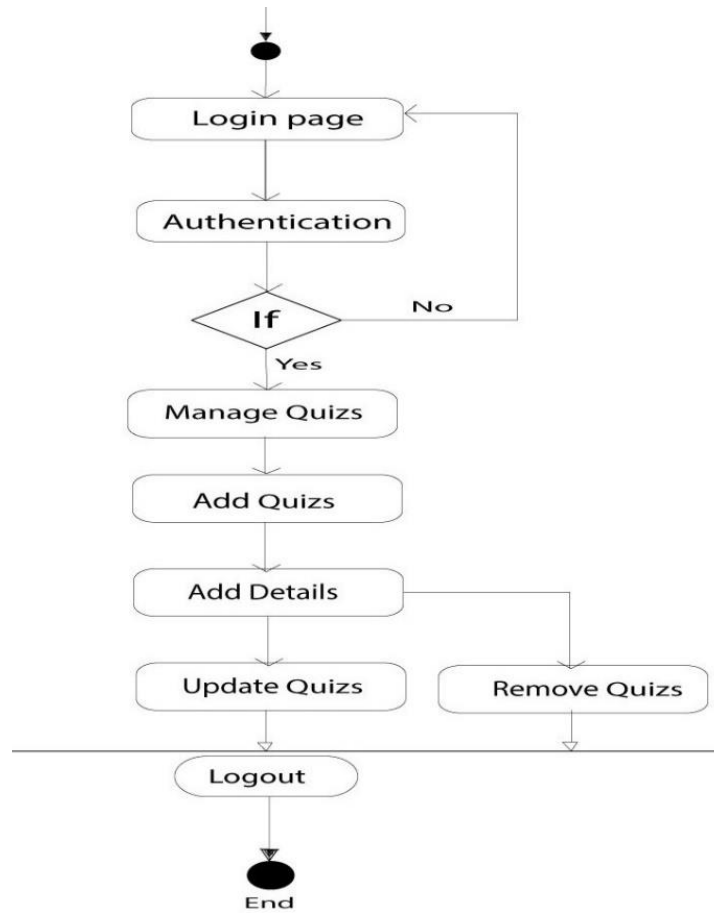


Figure 9: Activity Diagram for Manage Quiz's

Entity Relationship Diagram:

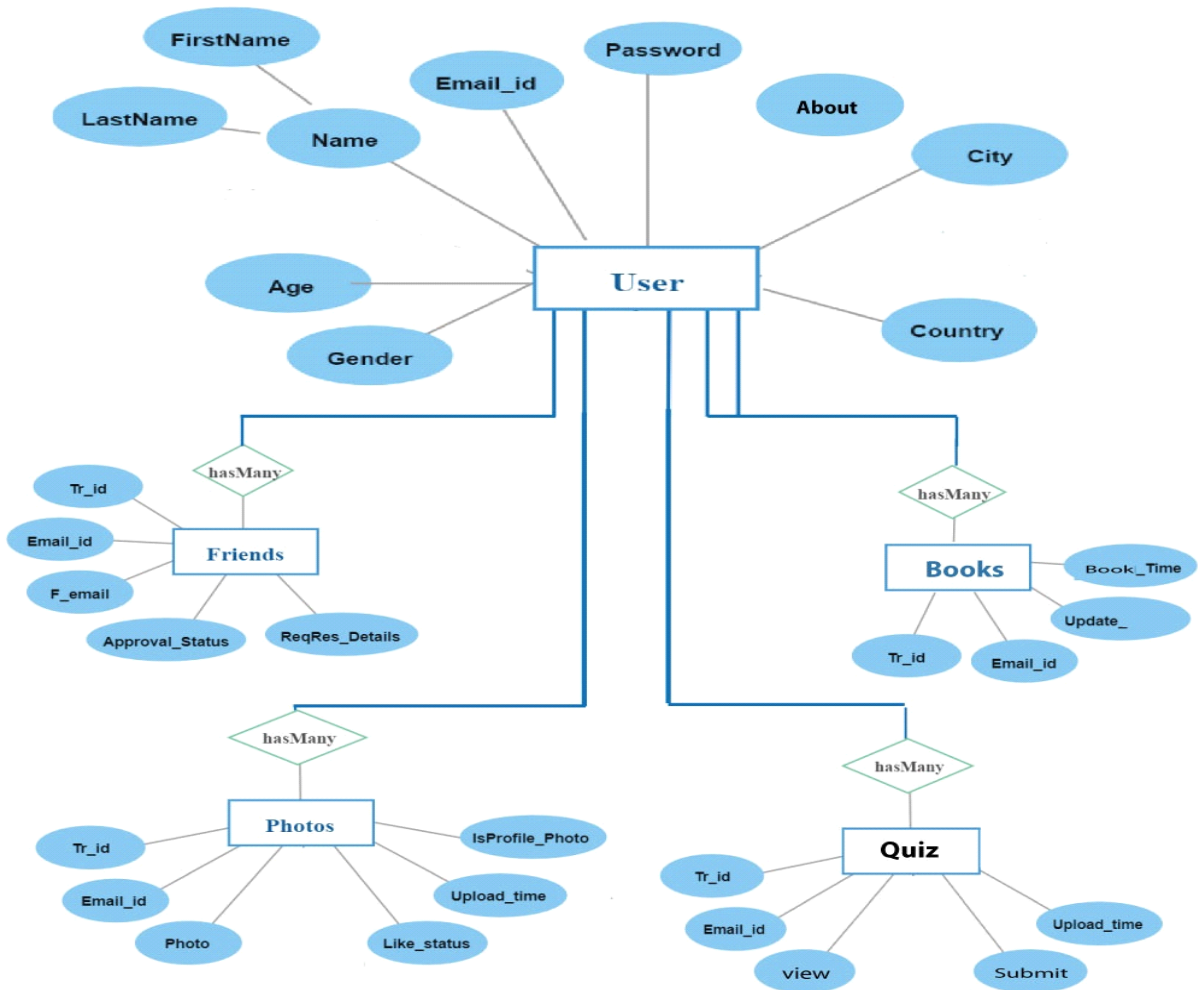


Figure 10: Entity Relationship Diagram

3.4 System Sequence Diagram:



Figure1 1: System Sequence Diagram for Login

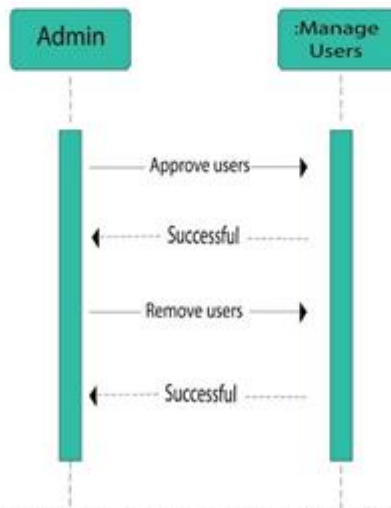


Figure12 System Sequence Diagram for Manage Users



Figure13System Sequence Diagram for Manage books

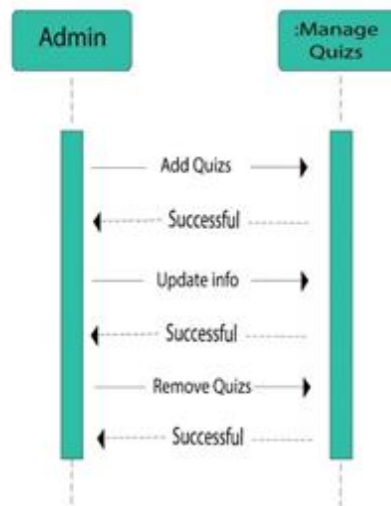


Figure14:System Sequence Diagram for Manage Quizzes

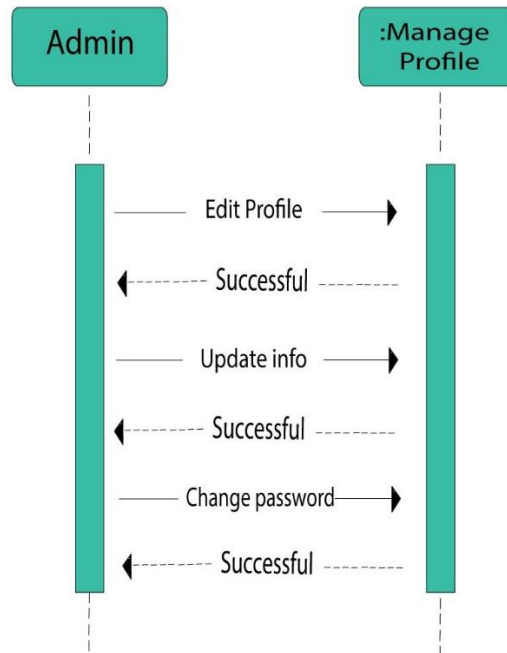


Figure 15: System Sequence Diagram for Edit profile

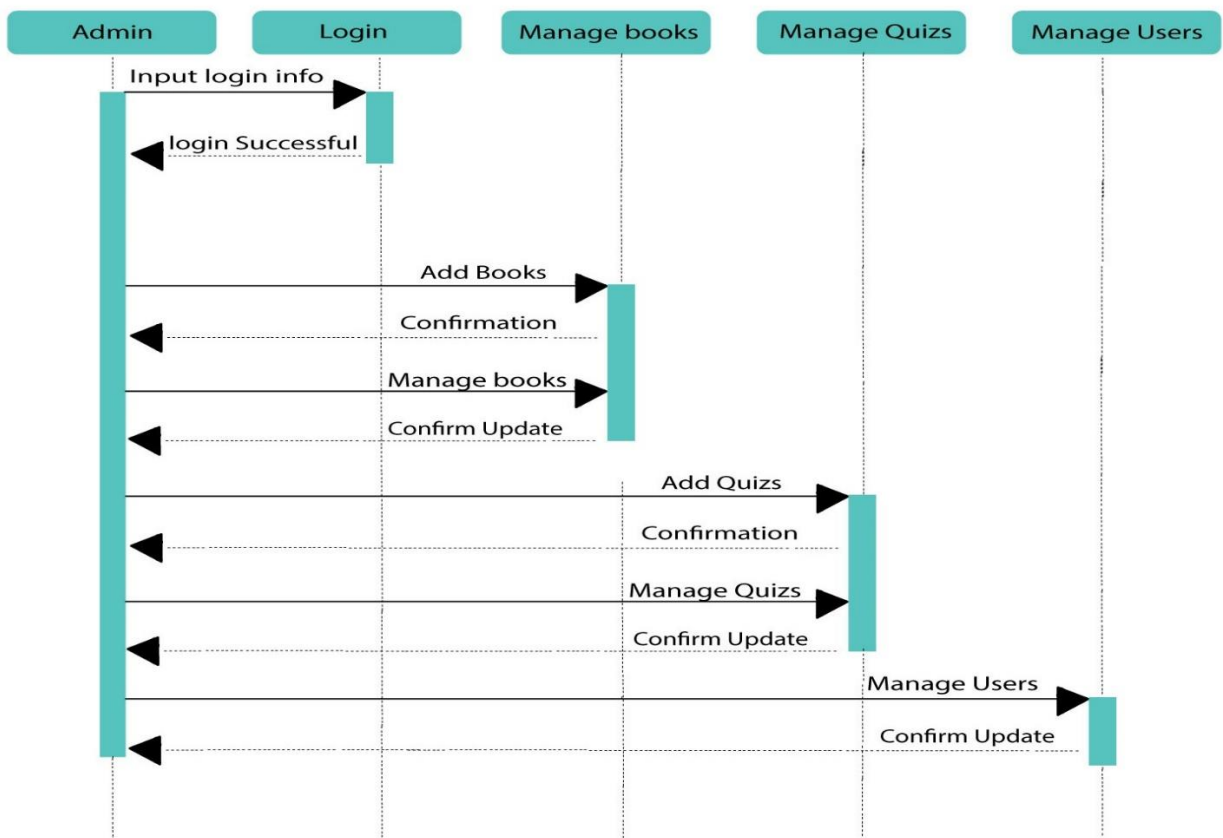


Figure 16: Sequence Diagram for Admin

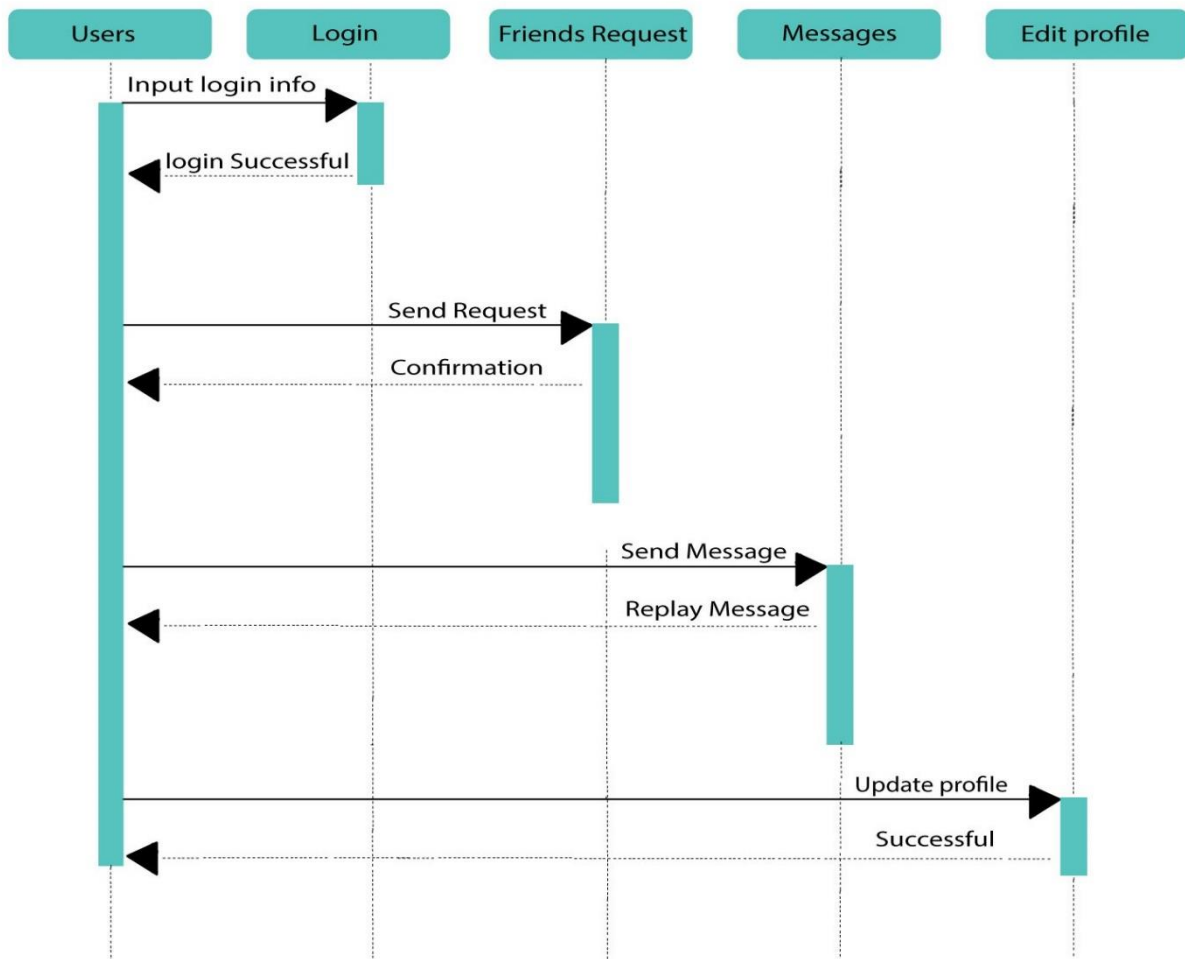


Figure 17: Sequence Diagram for Users

Class Diagram:

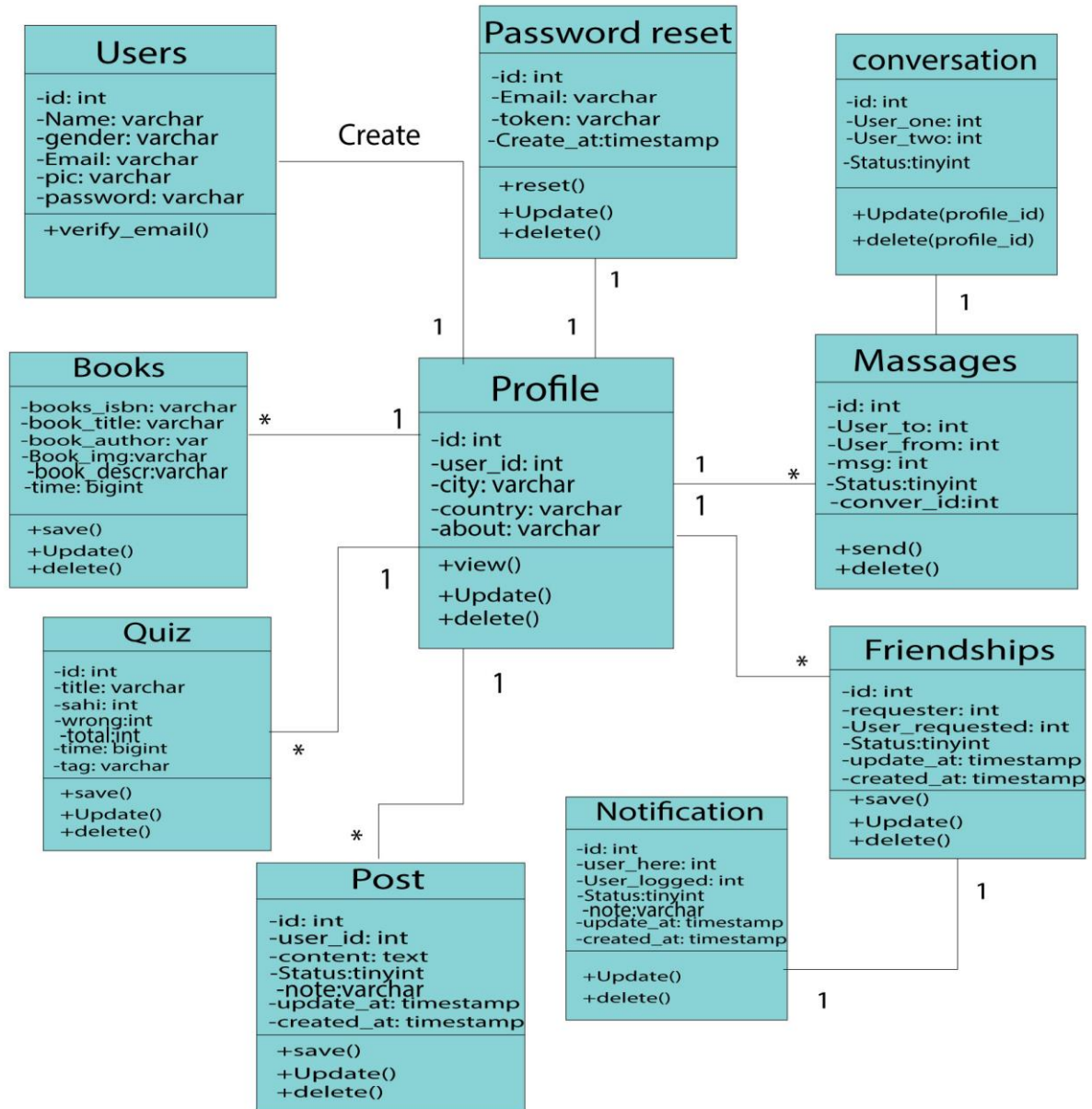


Figure 18: Class Diagram

4.4 Database Design Diagram:

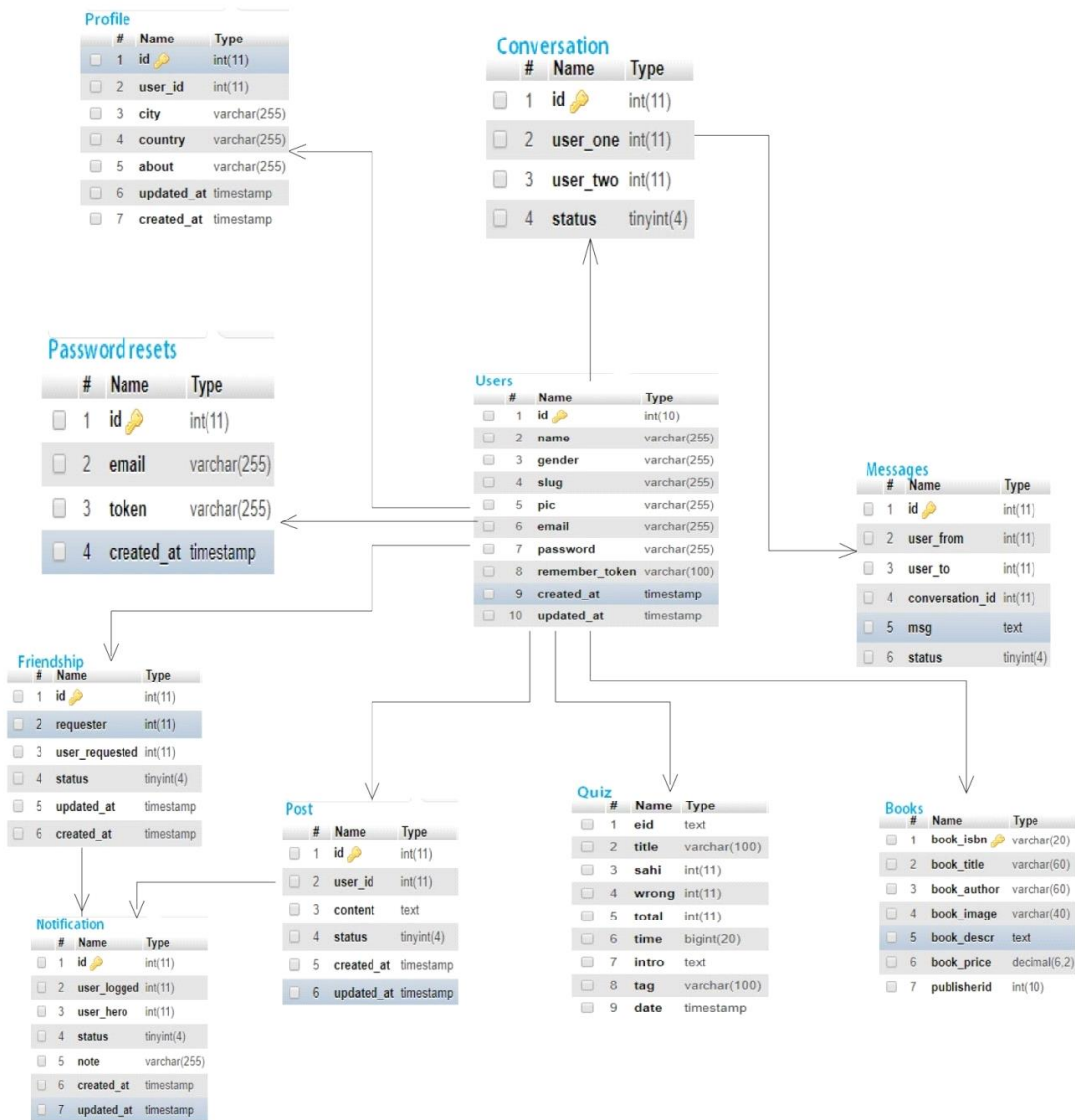


Figure 19: Database Diagram

4.5 Development Tools & Technology:

4.5.1 User Interface Technology:

4.5.1.1 Laravel Framework:

Laravel

4.5.1.2 Node JS:

JS used.

4.5.1.3 CSS Framework:

Bootstrap CSS used in this project

4.5.2 Implementation Tools & Platforms:

4.5.2.1 PHP Storm:

Use PHP as Language.

4.5.2.2 MySQL Server:

Use MySQL Server as Database

4.5.2.3 Apache HTTP Server:

Use Apache HTTP Server as local server to run this Project.

Chapter 5

System Testing

5.1 Testing Features

Unit Testing is a testing type for software by which individual units of source code,

Sets of one or more computer program modules together associated control Data, usage procedures, and operating procedures, are tested to determine whether. They are fit for use. We have done black box testing for unit testing.

System Testing has been done after finishing this project. We used to verify that it faces individualized. We got some error at the time of system testing. After getting error we tried to resolve it.

Acceptance Testing or beta testing is executed after System Testing and before making the system available for actual use. We have done beta testing of the system.

5.1.1 Features to be tested

- Search Books, quiz's Results
- Login
- Checkout

5.1.2 Features not to be tested

- Storage

5.2 Testing Strategies

5.2.1 Test Approach

Actually I use some test approaches in this section.

- Test levels
- Test types
- Testing Environment

5.2.2 Pass/Fail Criteria

Our project passed all the test down.

5.2.4 Testing Schedule

5.3 Testing Environment (Hardware/Software Requirements):

I have set the required environment using hardware and software for this project.

5.4 Test Cases:

Login:

SI No	Input Values	Test case	Condensation Being checked	Result
1	Email	Empty	Please inter valid Username	Successful
2	Email	Already exists or not	Login in id should be unique	Successful
3	Password	Empty	Please enter valid Password	Successful
4	Password	If wrong password	Enter Password	Successful
5	Password	Length	Length should be less than or equal to 10 Characters	Successful

Registration:

SI No	Input Values	Test case	Condensation Being checked	Result
1	First Name	Empty	It must not be Empty	Successful
2	Last Name	Empty	must not be Empty	Successful
3	Email	Empty	Enter valid Email id	Successful
4	Password	Empty	Enter valid Password	Successful
5	Password	Length	Minimum 8 characters required	Successful
6	Confirm Password	Empty	Password and confirmation password must be same	Successful
7	Date of birth	select	Enter valid Username and password	Successful

Edit profile:

SI No	Input Values	Test case	Condensation Being checked	Result
1	First Name	Null	F.name must not be Empty	Successful
2	Last Name	Empty	L.name must not be Empty	Successful
3	About	Empty	about must not be Empty	Successful
4	Country	Empty	country must not be Empty	Successful
5	City	Empty	city must not be Empty	Successful

Photo:

SI No	Input Values	Test case	Condensation Being checked	Result
1	Image Title	Null	Image Title must not be Empty	Successful
2	Add Image	Browser	Please browse	Successful
3	Delete Image	select	Please select image to delete	Successful

Books:

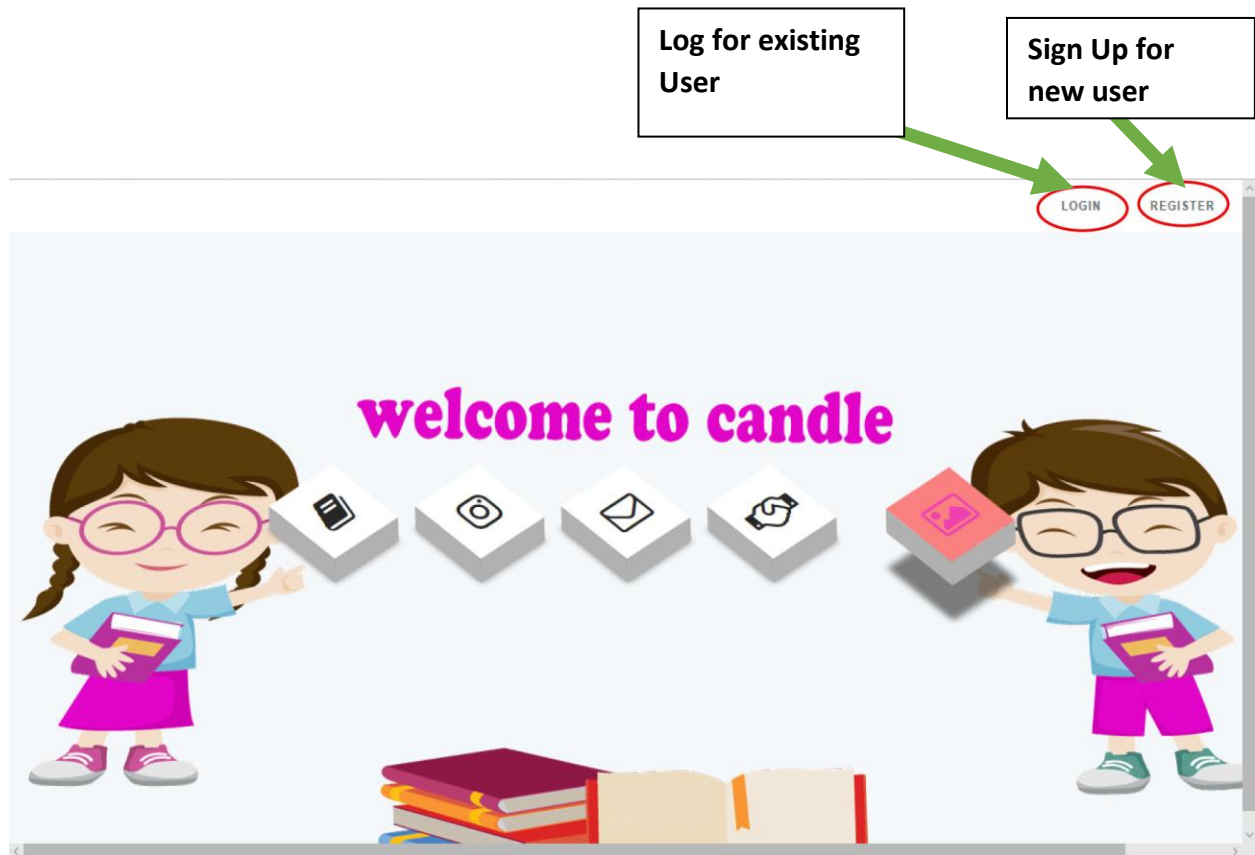
SI No	Input Values	Test case	Condensation Being checked	Result
1	Books Title	Null	Books Title must not be Empty	Successful
2	Add Image	Browser	Please browse	Successful
3	Description	select	Title must not be Empty	Successful
4	Add books	Browser	Please browse	Successful
4	Delete Books	select	Please select books to delete	Successful

MCQ:

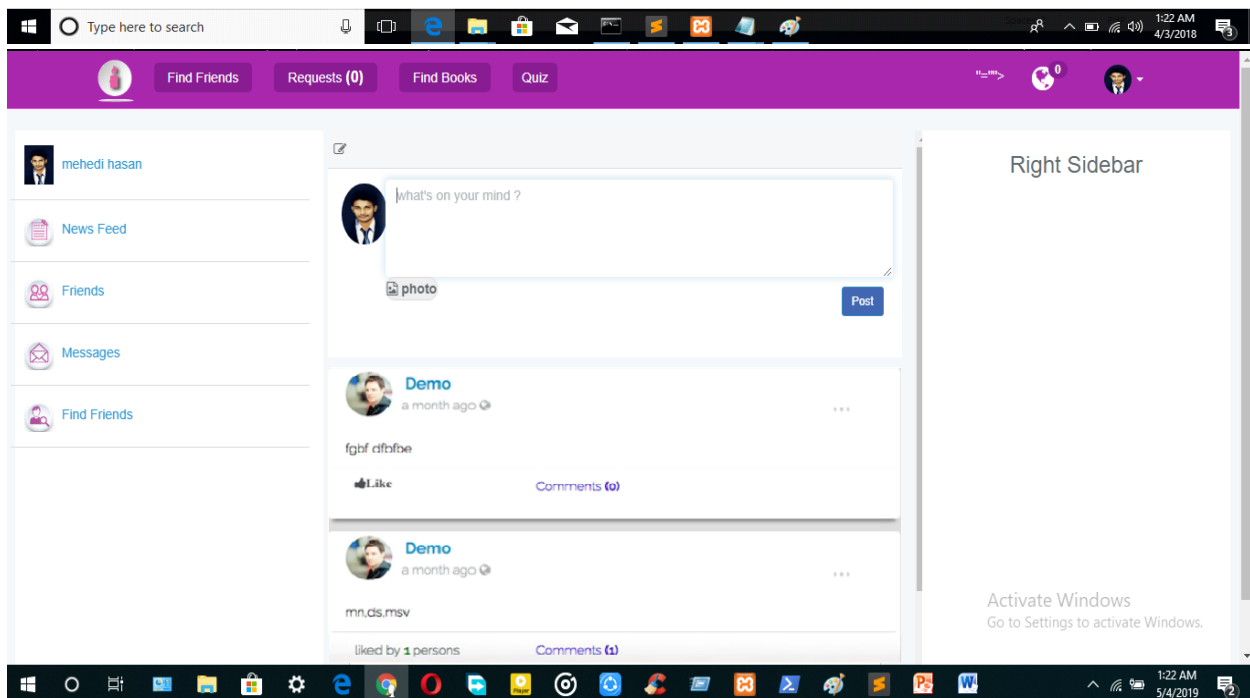
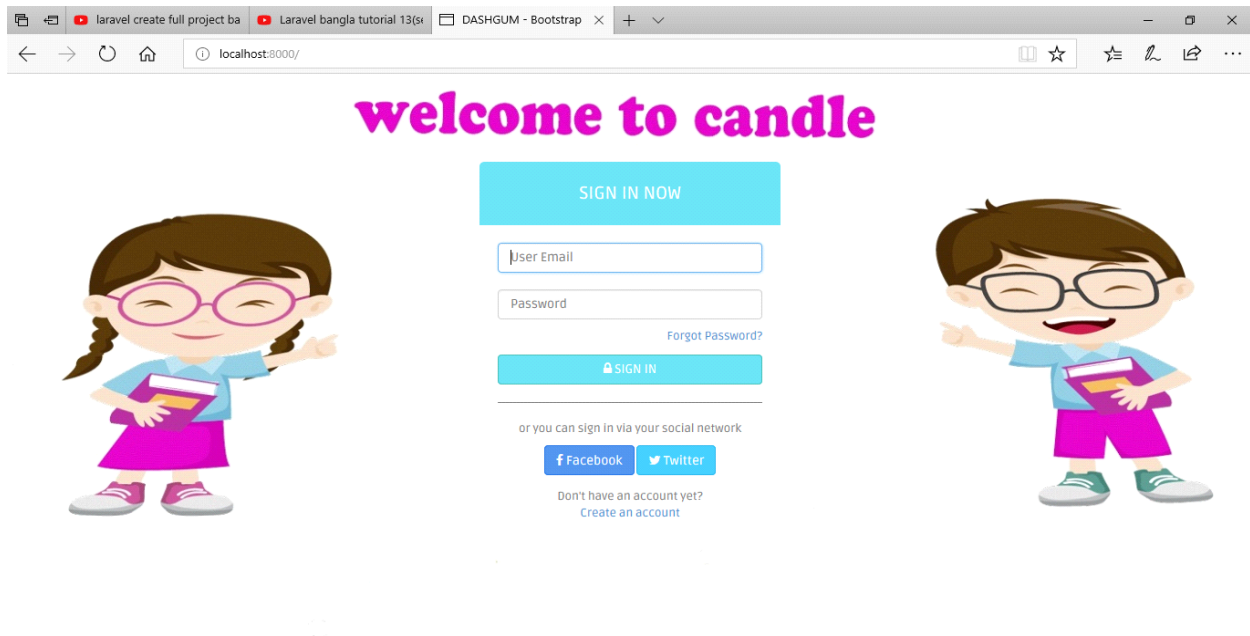
SI No	Input Values	Test case	Condensation Being checked	Result
1	MCQ Title	Null	MCQ Title must not be Empty	Successful
2	Add MCQ	Input	Please Input	Successful
3	Delete MCQ	select	Please select MCQ to delete	Successful

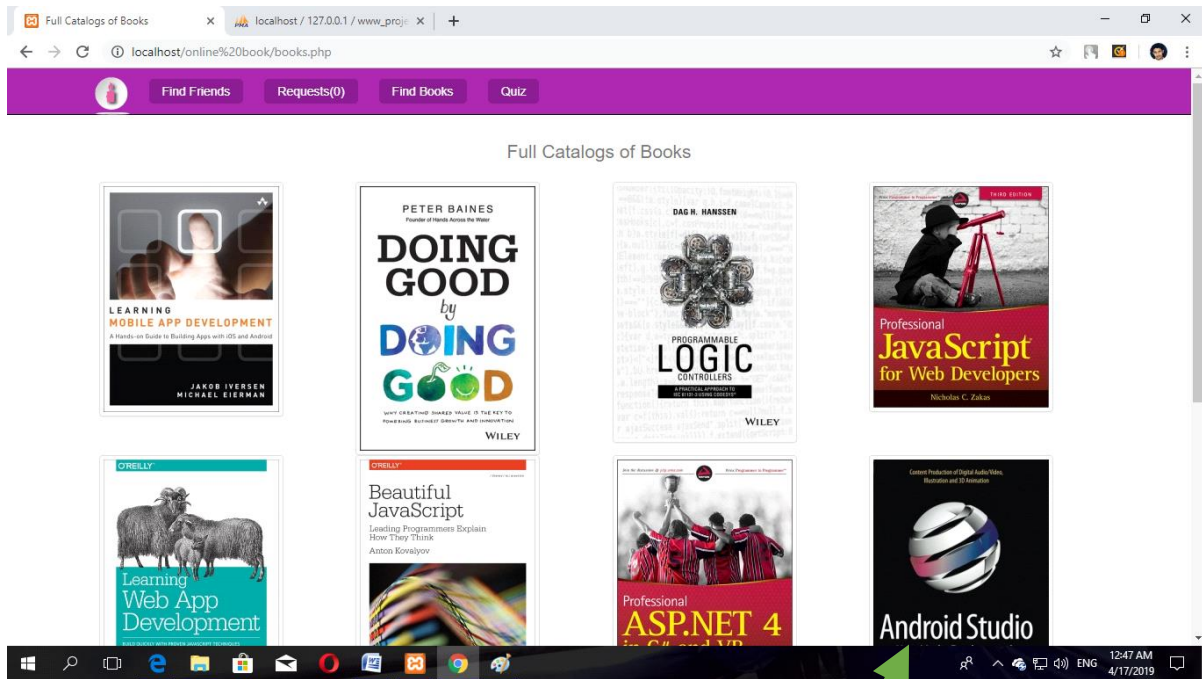
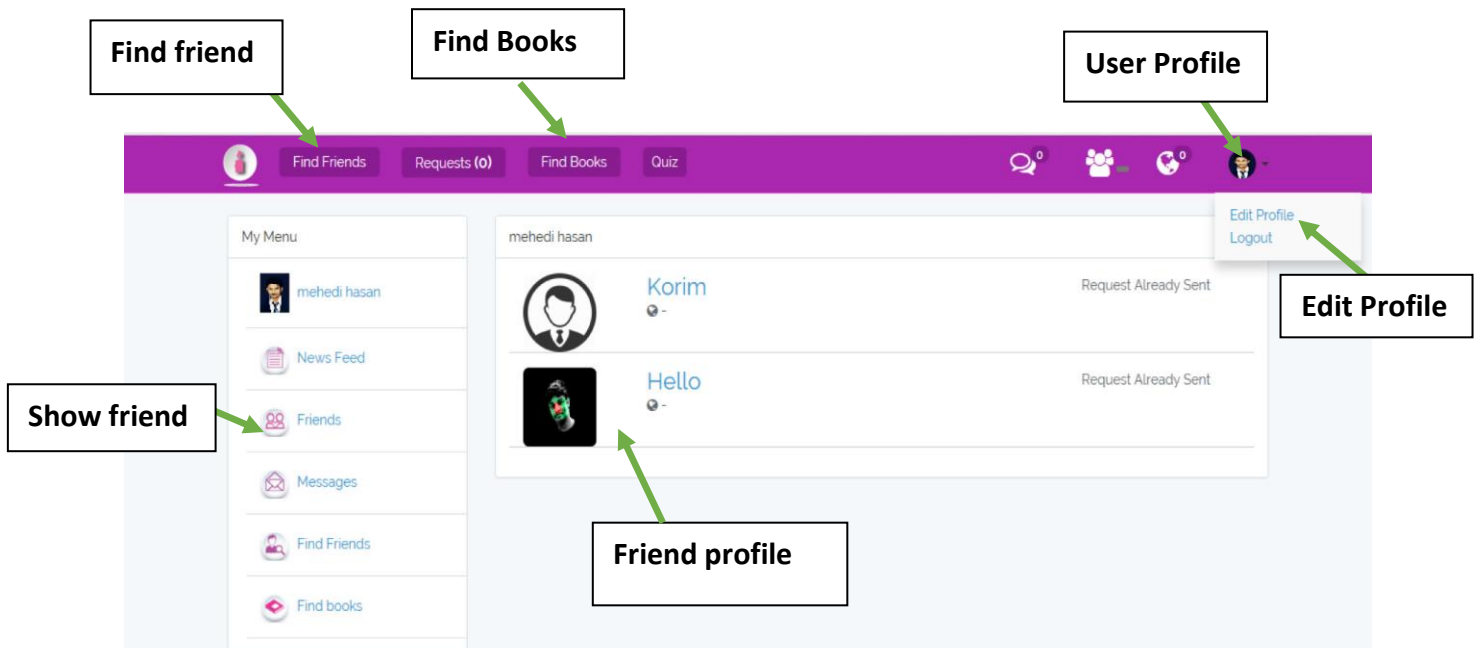
User Manual:

This is the first page that would be displayed when a user opens the website. User will have two options: either to sign in if he/she is already a registered user or sign up if he /she is a first time user.



In case of invalid username or password, the user will be informed about the invalid input and asked to enter it again. Similarly, unless and until a new user does not enters all the required details, he/she won't be able to create his/her account.





Books > Android Studio New Media Fundamentals



Book Description

Android Studio New Media Fundamentals is a new media primer covering concepts central to multimedia production for Android including digital imagery, digital audio, digital video, digital illustration and 3D, using open source software packages such as GIMP, Audacity, Blender, and Inkscape. These professional software packages are used for this book because they are free for commercial use. The book builds on the foundational concepts of raster, vector, and waveform (audio), and gets more advanced as chapters progress, covering what new media assets are best for use with Android Studio as well as key factors regarding the data footprint optimization work process and why new media content and new media data optimization is so important.

Book Details

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Author	Wallace Jackson
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History Ranking

S.N.	Topic	Total question	Marks	Time limit	
1	Linux :vi Editor	5	10	10 min	Start
2	Linux:startup ✓	5	10	10 min	Restart
3	Networking ✓	2	4	5 min	Restart
4	C++ Coding	2	4	5 min	Start
5	Php Coding	2	4	5 min	Start
6	Linux : File Management	2	4	5 min	Start

Buzz Buzz -->

Activate Windows
Go to Settings to activate Windows.

Clicking on the start bottom and start Quiz

0:27 -->

Question 1 ::
Which command is used to close the vi editor?

- ☐ q
- ☐ wq
- ☐ both (a) and (b)
- ☐ none of the mentioned

Select your correct answer
and clicking on the submit

Submit

Activate Windows
Go to Settings to activate Windows.

0:27 -->

Result

Show Quiz Result

Total Questions	5
right Answer ☺	1
Wrong Answer ☹	4
Score ★	-2
Overall Score 📊	-1

Activate Windows
Go to Settings to activate Windows.

The screenshot shows a web browser window with the address bar displaying 'localhost/127.0.0.1/www_proj...'. The page title is 'Add new book'. The browser's address bar shows 'localhost/online%20book/admin_add.php'. The page has a purple header with navigation links: 'Find Friends', 'Requests(0)', 'Find Books', and 'Quiz'. The main content area is a form for adding a new book. The form fields are: ISBN, Title, Author, Image (with a 'Choose File' button and 'No file chosen' text), Description (a large text area), Price, Publisher, and pdf book (with a 'Choose File' button and 'No file chosen' text). At the bottom of the form are two buttons: 'Add new book' and 'cancel'. A green arrow points to the 'Description' field, and a text box next to it says 'New Book add before up box'.

Warning: include_once(database_functions.php): failed to open stream: No such file or directory in C:\xampp\htdocs\online_book\admin_add.php on line 113

12:47 AM
4/17/2019

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Add Quiz

Remove Quiz

User

Ranking

Remove Quiz

Clicking on the Ranking and show MCQ Exam ranking

S.N.	Name	Gender	Ranking
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2	Asan	M	dhaka
3	Borsha	F	d
4	Meheedi Hasan	F	dhaka
5	Hasan	M	school
6	Tayyab	M	iub
7	User	M	cimt

mahadi74@gmail.co

mahadi74@gmail.com

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tayyabali7852@gmail.com

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localhost/candle3/resources/views/mcq/dash.php?q=1#

10:36 PM
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Ranking

S.N.	Topic		Marks	Time limit	
1	Linux :vi Editor	5	10	10 min	 Remove
2	Linux:startup	5	10	10 min	 Remove
3	Networking	2	4	5 min	 Remove
4	C++ Coding	2	4	5 min	 Remove
5	Php Coding	2	4	5 min	 Remove
6	Linux : File Managment	2	4	5 min	 Remove

Activate Windows
Go to Settings to activate Windows.

localhost/candle3/resources/views/mcq/dash.php?q=5



10:38 PM
5/3/2019