Student Supervision System

Submitted By

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This Project report submitted in fulfilment of the requirements for the degree of Bachelor of Science Engineering.

Department of Software Engineering
DAFFODIL INTERNATIONAL UNIVERSITY

Fall-2019

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APPROVAL

This **Project** titled "Student Supervision System", submitted by **Md. Robiul Islam**, 153-35-1306 to the Department of Software Engineering, Daffodil International University has been accepted as excellent for the fulfillment of the requirements for the degree of B.Sc. in Software Engineering and accepted as to its fashion and contents.

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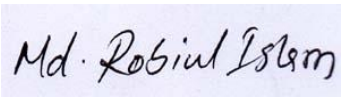
DECLARATION

I thusly pronounce that, this project report submitted to the Daffodil International University, is a record of a unique work done by me under the supervision of **Ms. Nusrat Jahan**, senior lecturer, department of Software Engineering, Daffodil International University. I likewise pronounce that this project report has not been submitted to some other University or Institute for the honor of any degree or recognition.

Submitted by:



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By the grace of Allah, I have successfully completed the project. I would acknowledge many honorable individuals who have been contributed to this project in different stages.

To begin with, I might want to thanks from my heart to my parents to give the open door for Studying in Software Engineering. They made my path easier in the way of life and fulfill my goals and dreams, without them, it won't be conceivable.

I would express my deepest thanks to my honorable supervisor and teacher **Ms.Nusrat Jahan**, Senior Lecturer, Department of Software Engineering, Daffodil International University. She is the coolest individual I had ever observed and she had lot of experience in the software engineering field. Her important guidance, supervision and lots of experience made it simpler to finish the project.

Gratefulness from my heart to Honorable **Dr. Touhid Bhuiyan**, Head, Department of Software Engineering, for his thoughtful guide to complete my task. Also, thanks from my heart to my honorable faculty member and staff of Software Engineering department of Daffodil International University.

My contribution to this project didn't make it effective without the assistance of my course mates. They constantly urged me to build up this extend and helped me to find the project objectives and issues. They also assisted me with discovering the basic problem solution.

At long last, I might want to express my grip to the pursuers, readers and reviewers of this report who will send me feedback for further improvements.

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ABSTRACT

The aim of this project is to reduce unnecessary hassle in communication between students and teachers. The project that is developed for that reason named “Student Supervision System”. In addition, the system will allow students to view teacher’s counselling routine so that they can contact with teachers easily. Moreover, teacher and student can send message to each other and they can share file if needed. Thus this system save time and improve efficiency.

Teachers get notification when any student request for counselling appointment. Teacher can also communicate with students by using the system. Each Software advancement keeps a few principles and strategy, I additionally following some technique to build up this project.

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CHAPTER 01

1. Introduction

1.1 Project Overview

Student Supervision System is a web based system which will resolve the traditional counselling problem. The system will allow students to request for an appointment from his/her desired teacher directly. Then the teacher can assign a counselling slot for that student. They can also contact each other via system.

1.2 Project Purpose

1.2.1 Background

Since the beginning, the varsity using a student counselling system where a notice paper is attached to every teacher's desk with their preferable counselling schedule. If any student want to meet any teacher then he/she has to find the room where the teacher's desk is. Then he/she has to find the teacher's desk to collect the notice about counselling hours. Again, there is no guarantee that the teacher will be available at the desk or the teacher may be busy in another task. So, the students have to visit the room frequently according to the counselling hours. This traditional system is very much time consuming and frustrating.

1.2.2 Benefits and Beneficiaries

By using the system both teachers, students and overall the varsity management can be benefitted. The system will save time and will increase efficiency. The benefits of using the system is given below:

1. The system will reduce time consumption.
2. It will allow both teachers and students to communicate with each other directly via email messaging.
3. It will allow students to send request for an appointment to any specific teacher.
4. Allow teachers to set a visiting hour/slot for students.
5. Allow both teachers and students to upload any file/document if needed.
6. The system will reduce overall management hassle.

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1.2.3 Goals

This system is intended to ease the student counselling process so that both teacher and student can communicate with each other in faster, easier and more efficiently compared to the normal manual process.

1.3 Stakeholders

1. Teachers and Students are the main stakeholders who will use the system.
2. Admin can add user to the system.

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1.4Proposed System Model (Block Diagram)

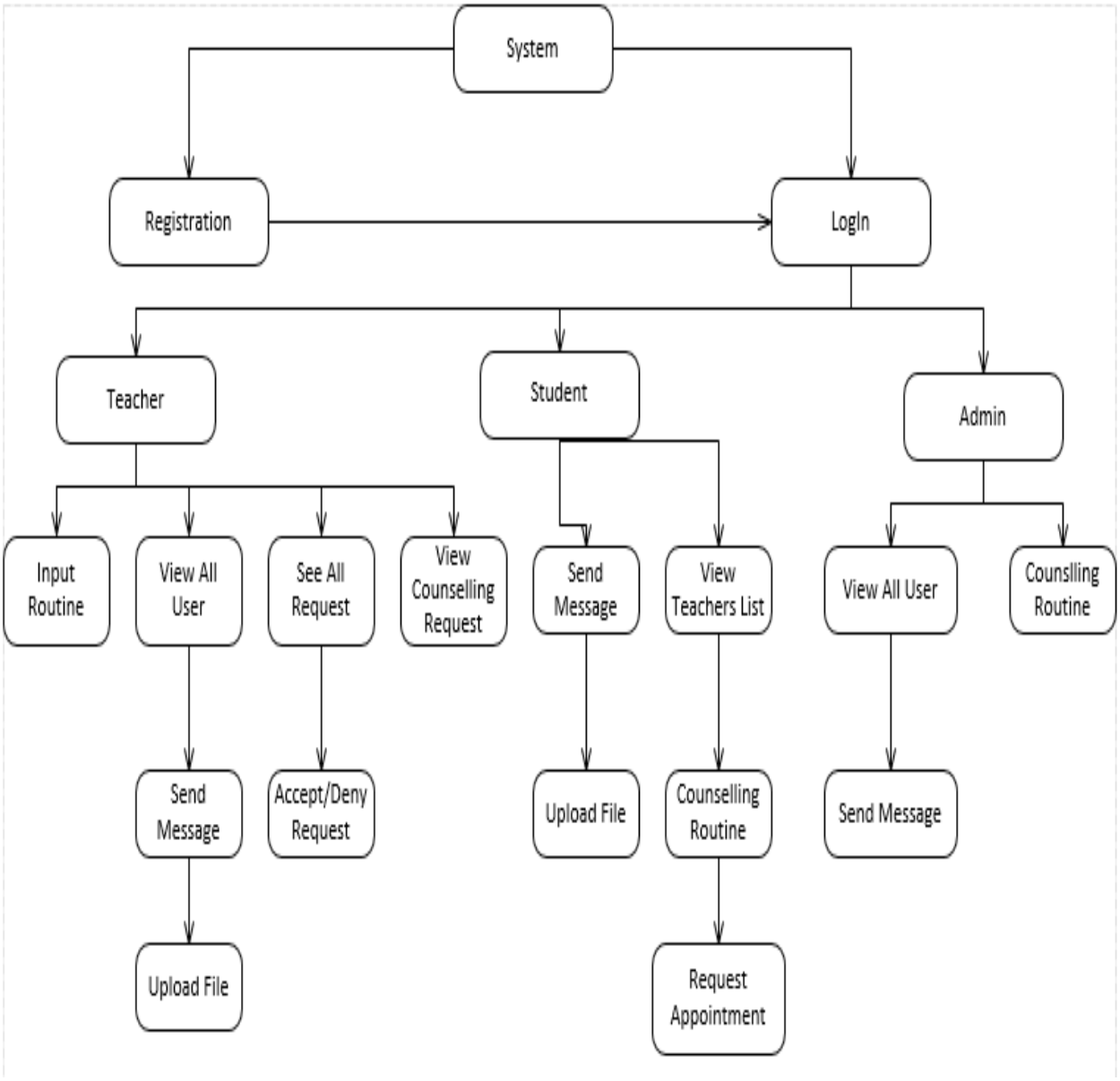

Figure 1.1: Block diagram (Student Supervision System)

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1.5 Project Schedule

1.5.1 Gantt chart

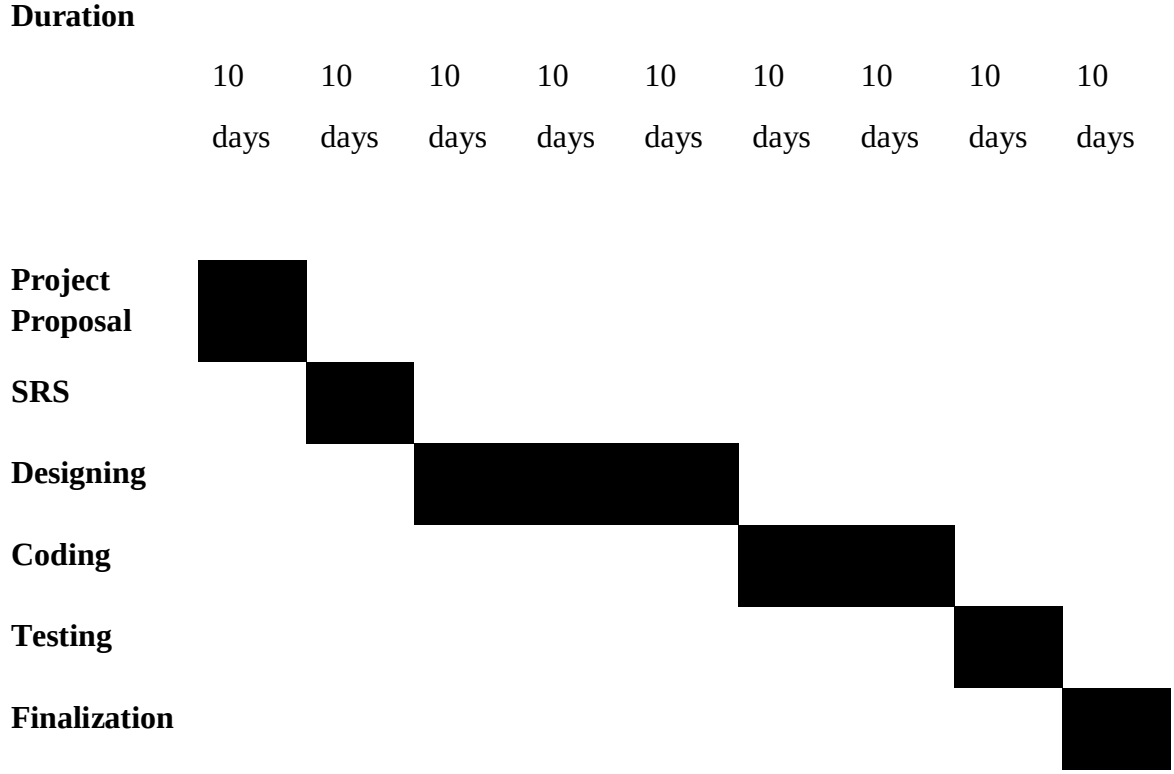

Figure 1.2: Gantt chart (Student Supervision System)

1.5.2 Release Plan/Milestone

Release 1: The following contents will be delivered during release 1 –

1. Project CD
    I. Project Demo
    II. User Manual
2. Documentation

Release 2: New feature will be added to increase efficiency.

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CHAPTER 02

2. Software Requirement Specification

2.1 Functional Requirements

1. Both teachers and students have to register to the system.
2. Only teachers can input counselling routine.
3. Students and teacher should be able to send message to each other.
4. Teachers and students should be able to upload file/document in the system.
5. Students should be able to view counselling hours of any teachers.
6. Students should be able to send appointment request to teachers.

2.2 Non-Functional Requirement

1. Background color & font color acceptable for all devices and user
2. Attractive User Interface
3. User should change password in every 30 days.

2.3SRS

SRS ID	SRS Name	Description	SRS Type	Priority
RQ01	Registration	Both teachers and students have to register to the system.	Functional	High
RQ02	Counselling Routine	Only teachers can input counselling routine.	Functional	High
RQ03	Email Messaging	Students and teacher should be able to send message to each other.	Functional	High
RQ04	Upload File	Teachers and students should be able to upload file/document in the system.	Functional	High

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RQ05	View Routine	Students should be able to view counselling hours of any teachers.	Functional	High
RQ06	Appointment Request	Students should be able to send appointment request to teachers.	Functional	High
RQ07	Responsive	Background color & font color acceptable for all devices and user.	Non-Functional	Medium
RQ08	User Interface	Attractive user interface should be used in the system.	Non-Functional	Low
RQ09	Password	User should change password in every 30 days.	Non-Functional	Medium

Table 2.1: System Requirement Specification (Student Supervision System)

2.4 Performance Requirement

2.4.1 Speed and Latency Requirements

1. The UI of this system is designed to load faster but it will depend on users device and internet speed.
2. The system will execute query on time and will show the output within one second. Notifications will also be displayed within one second.

2.4.2 Availability Requirements

1. The system should be available whenever user is trying to access to the system by using a web browser.
2. In case of a hardware failure or database corruption, backups of the database should be retrieved from the server and saved by the administrator.

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2.4.3 Maintainability Requirements

Commercial database is used for maintaining the database and the software design is being done with molecularity in mind to maintain the system more efficiently.

2.4.4 Precisions or Accuracy Requirements

1. Without the Varsity Email ID no one can register to the system.
2. After successful login user must see the accurate result. All the user information should be stored in database accurately.

2.4.5 Security Requirements

1. Only registered user can log in to the system.
2. Admin can block/delete any user from the system.

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CHAPTER 03

3. System Analysis

3.1 Use Case Diagram

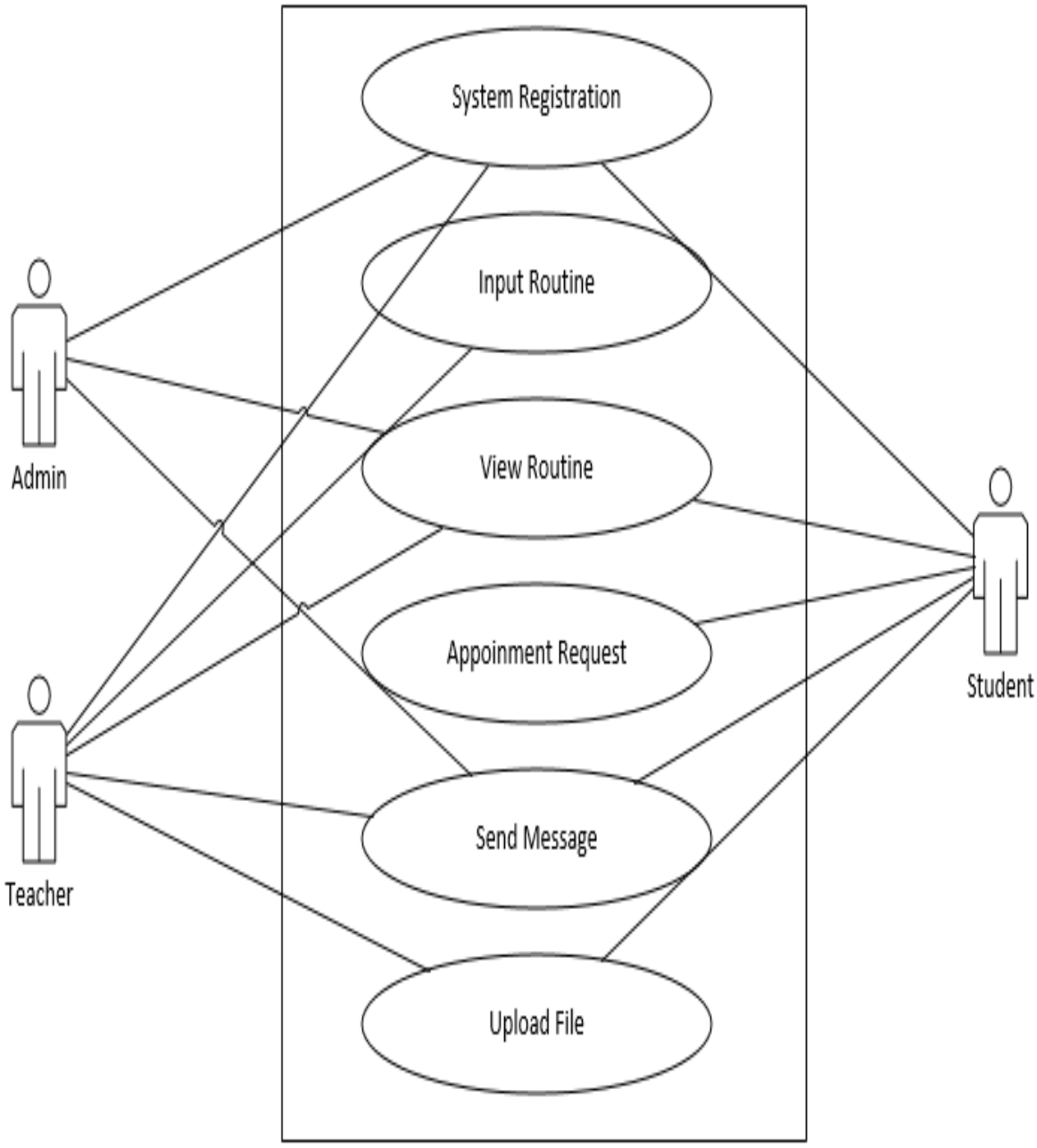

Figure 3.1: Use case diagram (Student Supervision System)

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3.2 Use Case Description

Use Case ID:	UC01
Use Case Name:	System Registration
Scenario:	All users have to register to the system.
Brief Description:	Teacher, student and admin should register to the system with valid email address.
Actor:	Teacher, student.
Pre-Condition:	Must be organization's email address.
Post-Condition:	After successful registration to the system, every user can access their accessible data.
Flow of Events:	1. Provide valid email address to the system 2. Provide User Name 3. Select User Role from menu 4. Create a new password and then confirm the new password
Trigger:	Button

Table 3.2.1: System Registration

Use Case ID:	UC02
Use Case Name:	Input Routine
Scenario:	Teacher will input his/her own counselling routine to the system.
Brief Description:	Teacher will input counselling routine so that students can view the routine and they will be able to send request for appointment.
Actor:	Teacher.
Pre-Condition:	A pattern is given to provide routine.
Post-Condition:	Teacher must input one counselling slot at a time.
Flow of Events:	1. Log in to the system using valid email id and password. 2. Select input routine button from menu bar 3. Input routine in routine form

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	4. Submit the routine into the system.
Trigger:	Button

Table 3.2.2: Input Routine

Use Case ID:	UC03
Use Case Name:	View Routine
Scenario:	Users will see the counselling routine of any teacher they want.
Brief Description:	Students will view the teachers counselling routine so that they can request for an appointment to any specific teacher.
Actor:	Teacher, student and admin.
Pre-Condition:	All user should log in to system.
Post-Condition:	After successfully login to the system, every user can view counselling routine of any teacher.
Flow of Events:	1. Log in to the system 2. Select Teacher name from teacher list 3. Press view button to view counselling routine.
Trigger:	Give permission to view routine.

Table 3.2.3: View Routine

Use Case ID:	UC04
Use Case Name:	Appointment Request
Scenario:	Student will ask for an appointment teacher.

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Brief Description	Student will view teachers counselling routine and will ask for appointment according to that routine.
Actor:	Student.
Pre-Condition:	Must be registered student.
Post-Condition:	Student should be able to send appointment request to teacher in given time slot.
Flow of Events:	1. Log in to the system 2. Select teacher name from teacher list 3. View specific teachers counselling routine 4. Press request button to send appointment request at any given specific time slot.
Trigger:	Show Counselling Routine and send appointment request to selected teacher.

Table 3.2.4: Appointment Request

Use Case ID:	UC05
Use Case Name:	Send Message
Scenario:	Student want send message to teacher.
Brief Description	Teacher and student can send message to each other.
Actor:	Teacher, student and admin.
Pre-Condition:	All user should be logged in to the system.
Post-Condition:	After successful login to the system, every user can send message to each other.
Flow of Events:	1. Log in to the system 2. Select recipient from user list 3. Write message in the message form 4. Press send button to send the message.
Trigger:	Send message to the desired recipient.

Table 3.2.5: Send Message

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Use Case ID:	UC06
Use Case Name:	Upload File
Scenario:	Student want to send any file/document to teacher.
Brief Description	Student will upload file if his/her teacher ask.
Actor:	Teacher and student.
Pre-Condition:	Must be Logged in to the system.
Post-Condition:	One file can be uploaded at the same time.
Flow of Events:	1. Log in to the system using valid email and password 2. Select recipient from message list 3. Press send message to open message form 4. Select file which will be uploaded 5. Press upload button to upload the file.
Trigger:	Send file to the desired person.

Table 3.2.6: Upload File

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3.3 Activity Diagram

All the activity for the use case is given below:

System Registration:

When users will register to the system, at first they have to fill up information that is mentioned in the registration form.

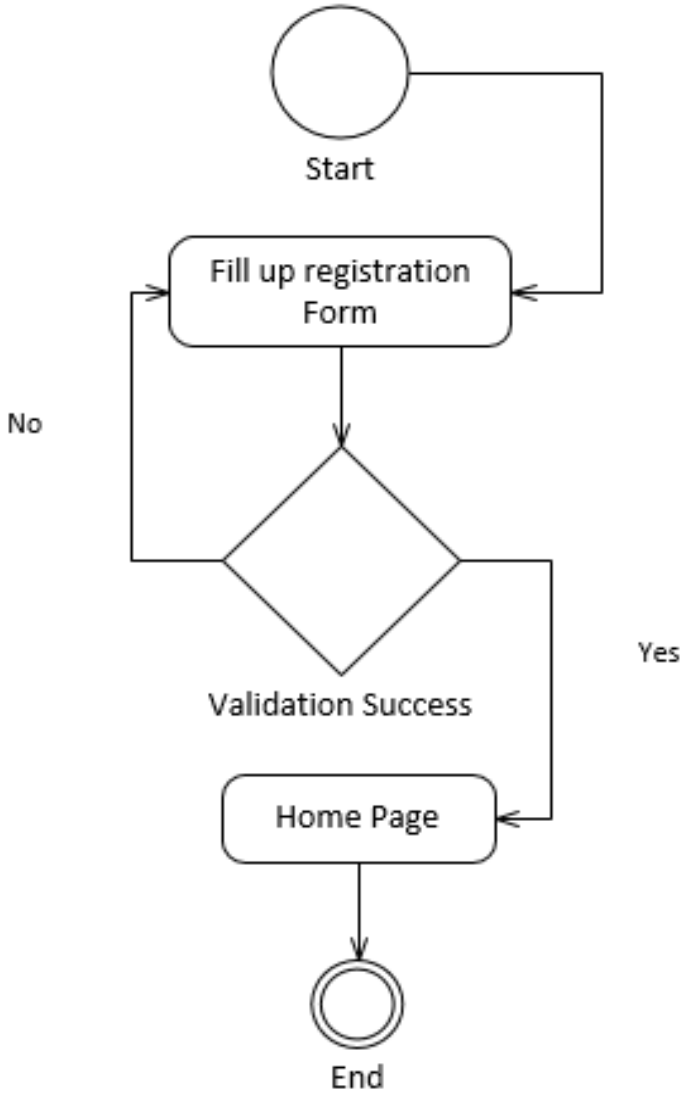

Figure 3.3.1: System Registration (Student Supervision System) [2]

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Input Routine:

Only teacher can input counselling routine. To input routine teacher has to open input routine page and has to input his/her counselling day and hour.

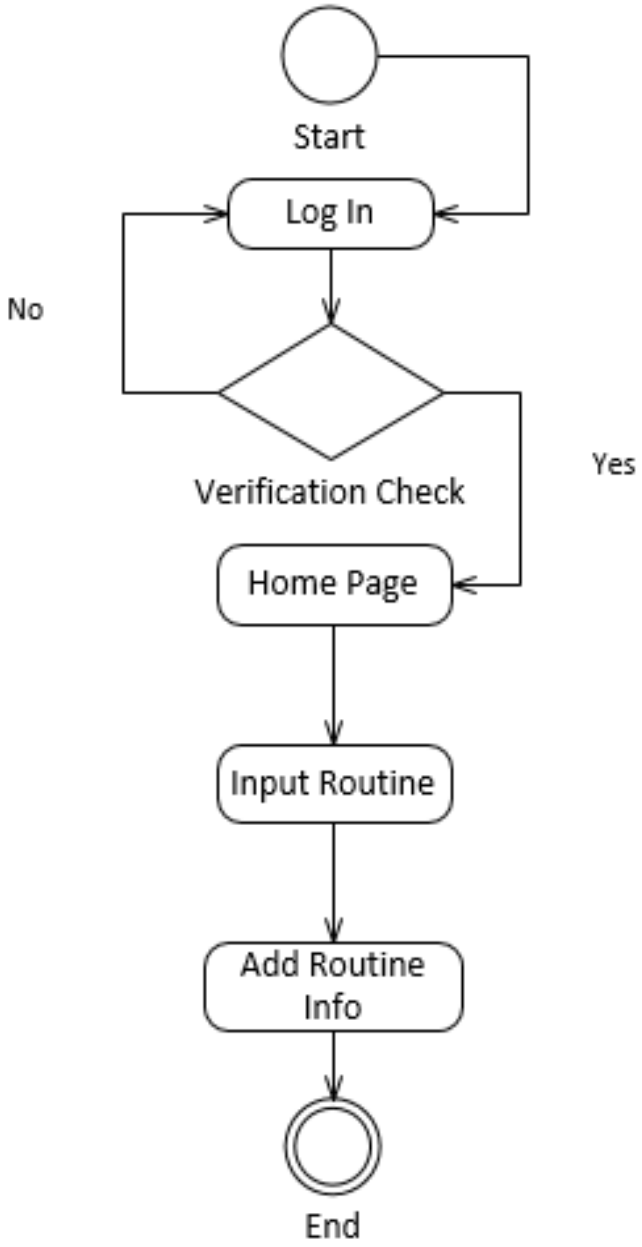

Figure 3.3.2: Input Routine (Student Supervision System) [2]

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View Routine:

All user can view routine. To view routine user has to select specific teacher from teacher list. Then they can view teacher's counselling routine.

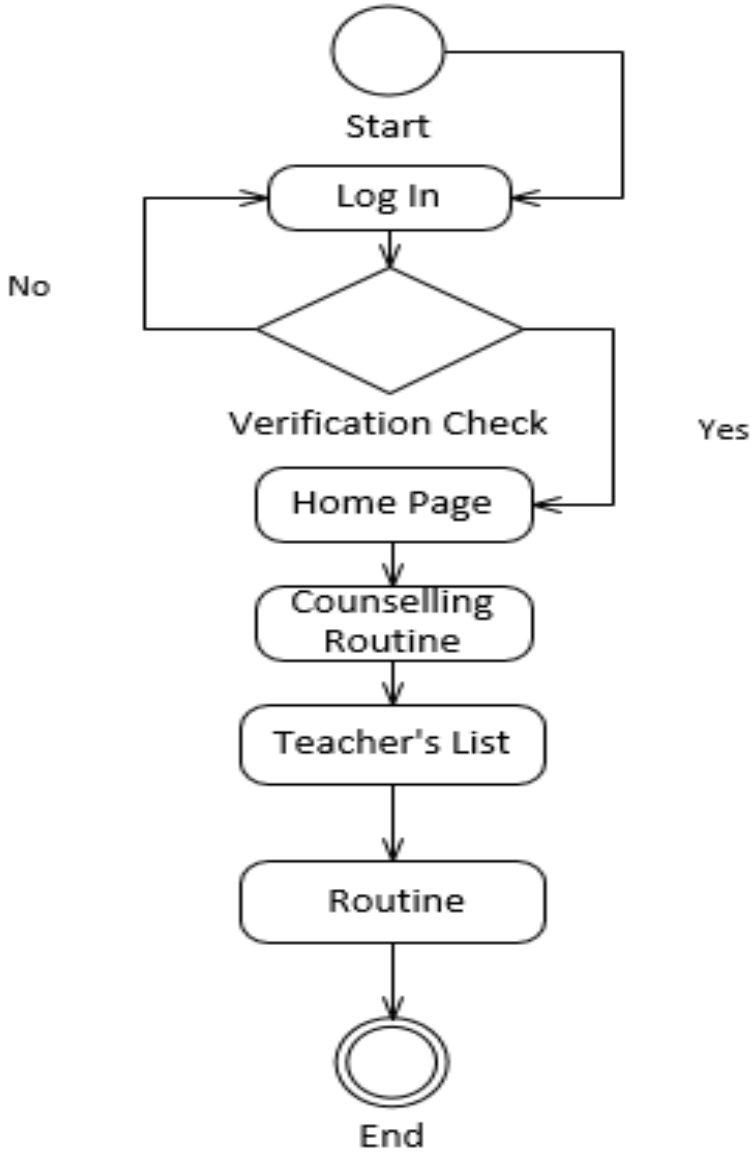

Figure 3.3.3: View Routine (Student Supervision System) [2]

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Appointment Request:

Here Student can request teacher for an appointment. Students have to view any specific teacher's counselling routine to request an appointment. From counselling routine they can ask for appointment in any specific counselling slot.

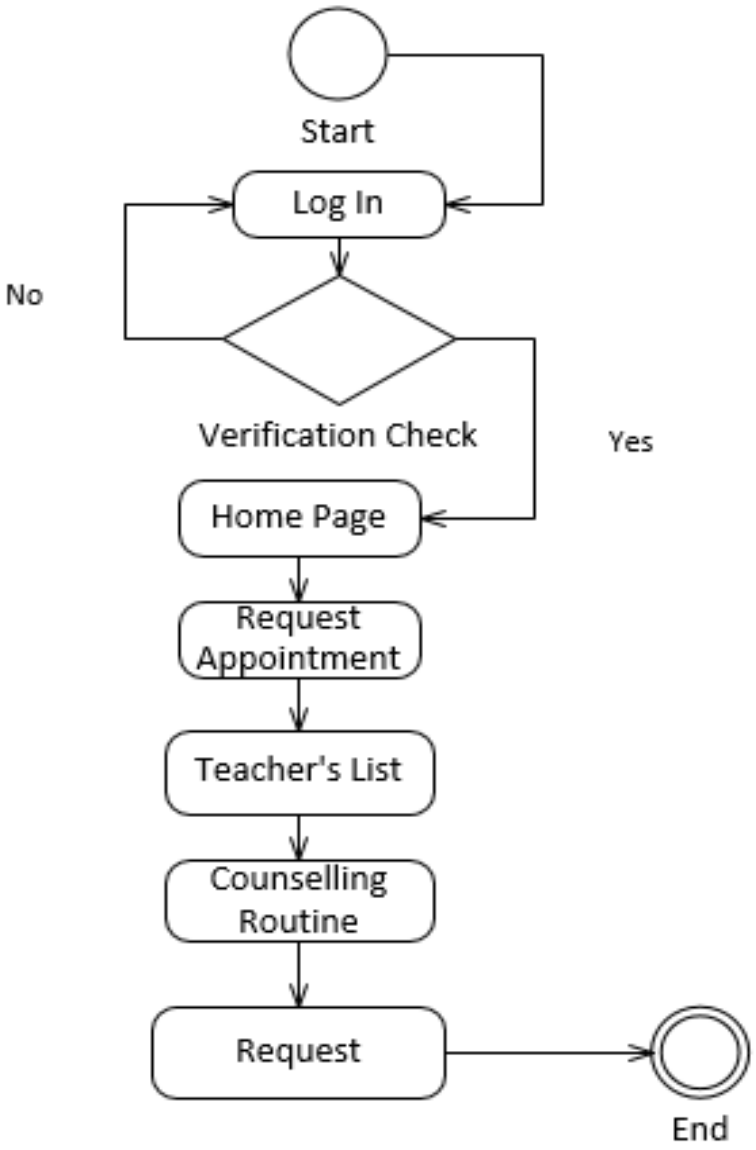

Figure 3.3.4: Appointment Request (Student Supervision System) [2]

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Send Message:

All user can send message to each other. To send message user have open message form and will write message. Then they can send the message.

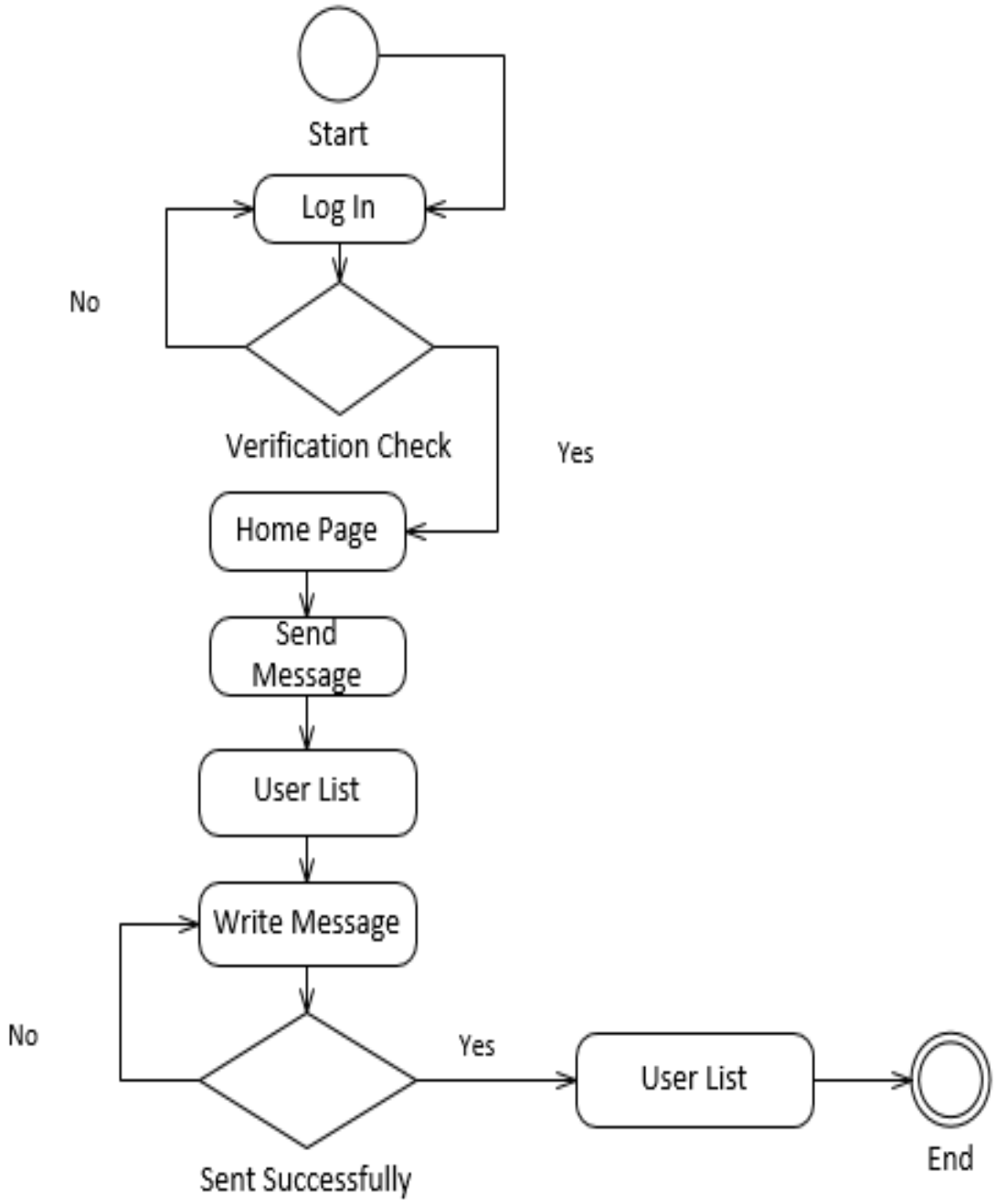

Figure 3.3.5: Send Message (Student Supervision System) [2]

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Upload File:

While contacting each other any user can ask other to send a file/document online. User has to open message box and has to choose desired file/document he/she wants to send from pc and then he/she can upload it.

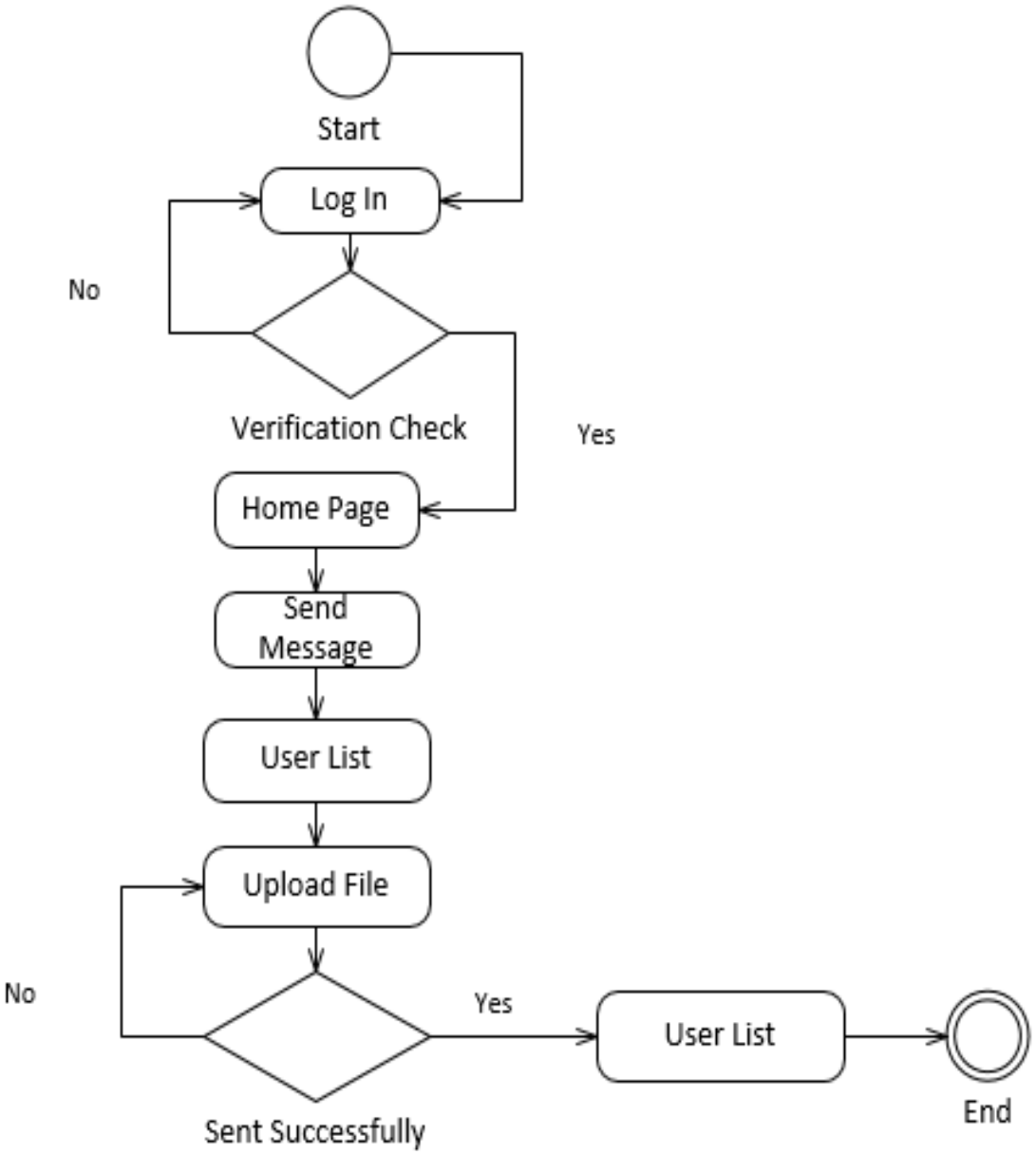

Figure 3.3.6: Upload File (Student Supervision System) [2]

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3.4 Sequence Diagram

System Registration:

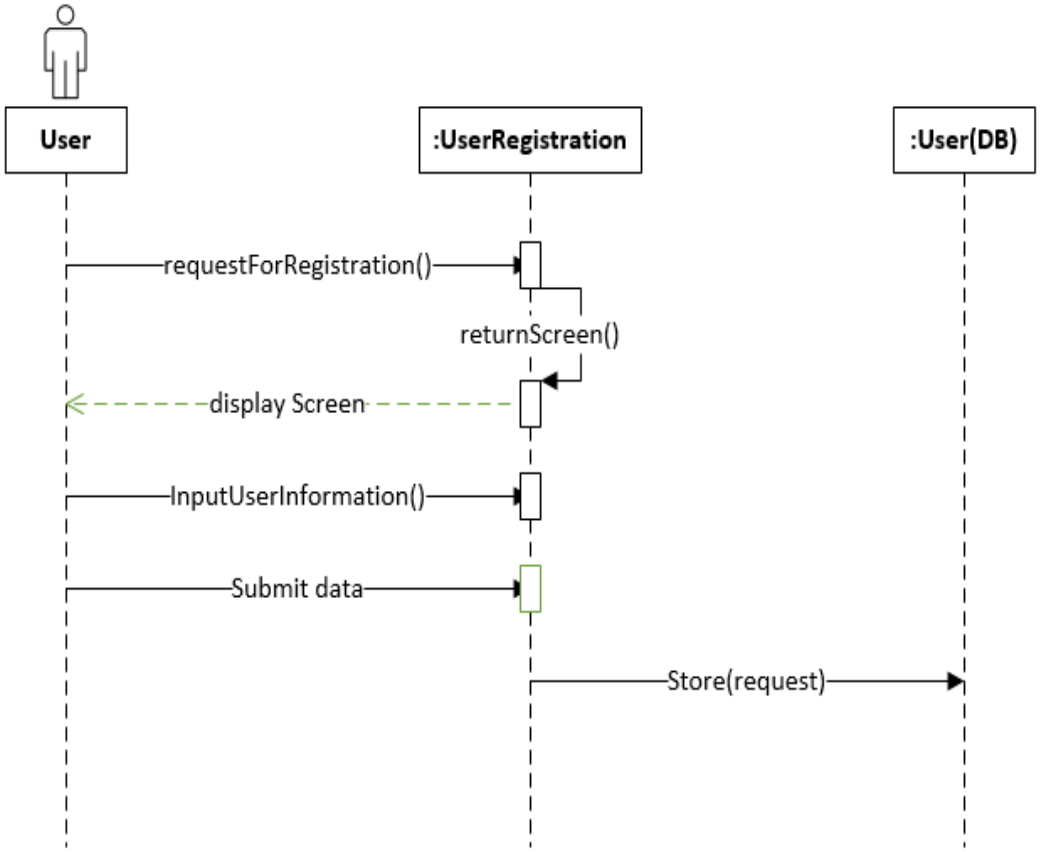

Figure 3.4.1: Sequence Diagram for System Registration [2]

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Input Routine:

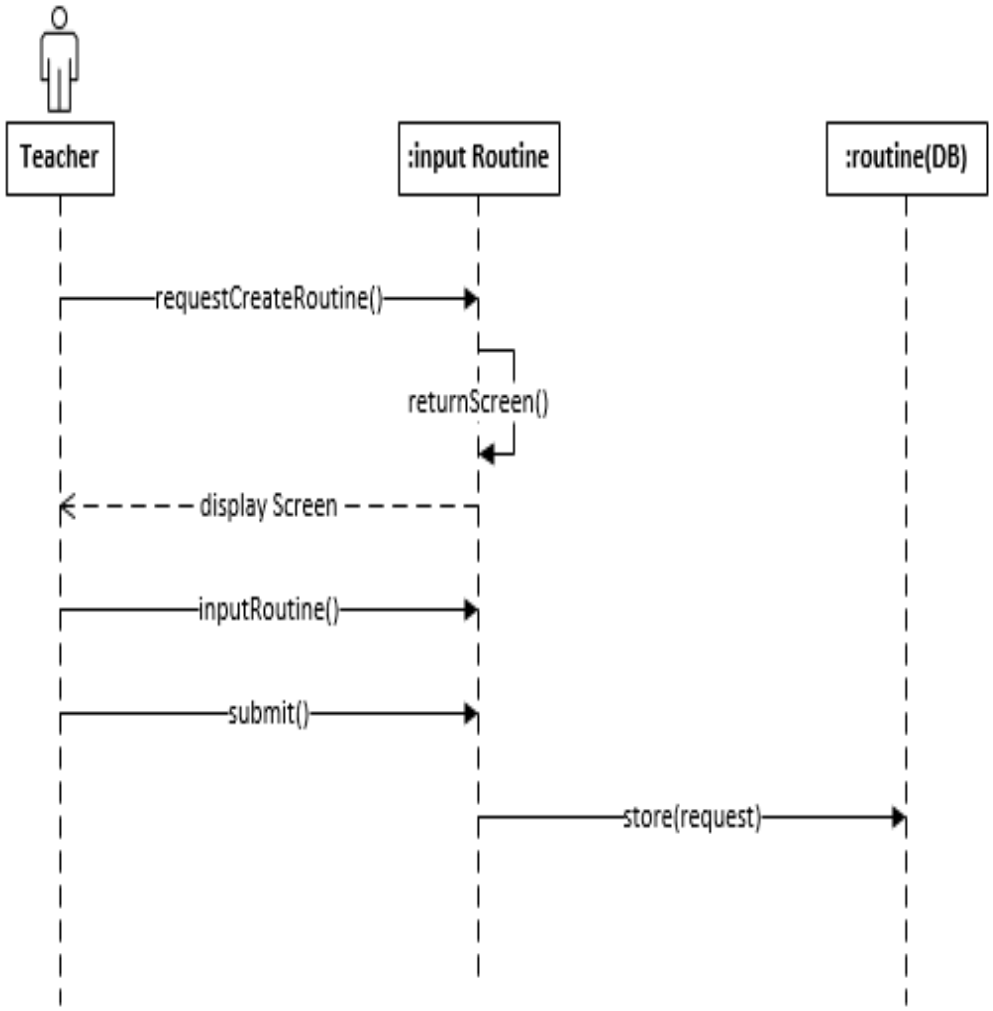

Figure 3.4.2: Sequence Diagram for Input Routine [2]

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View Routine:

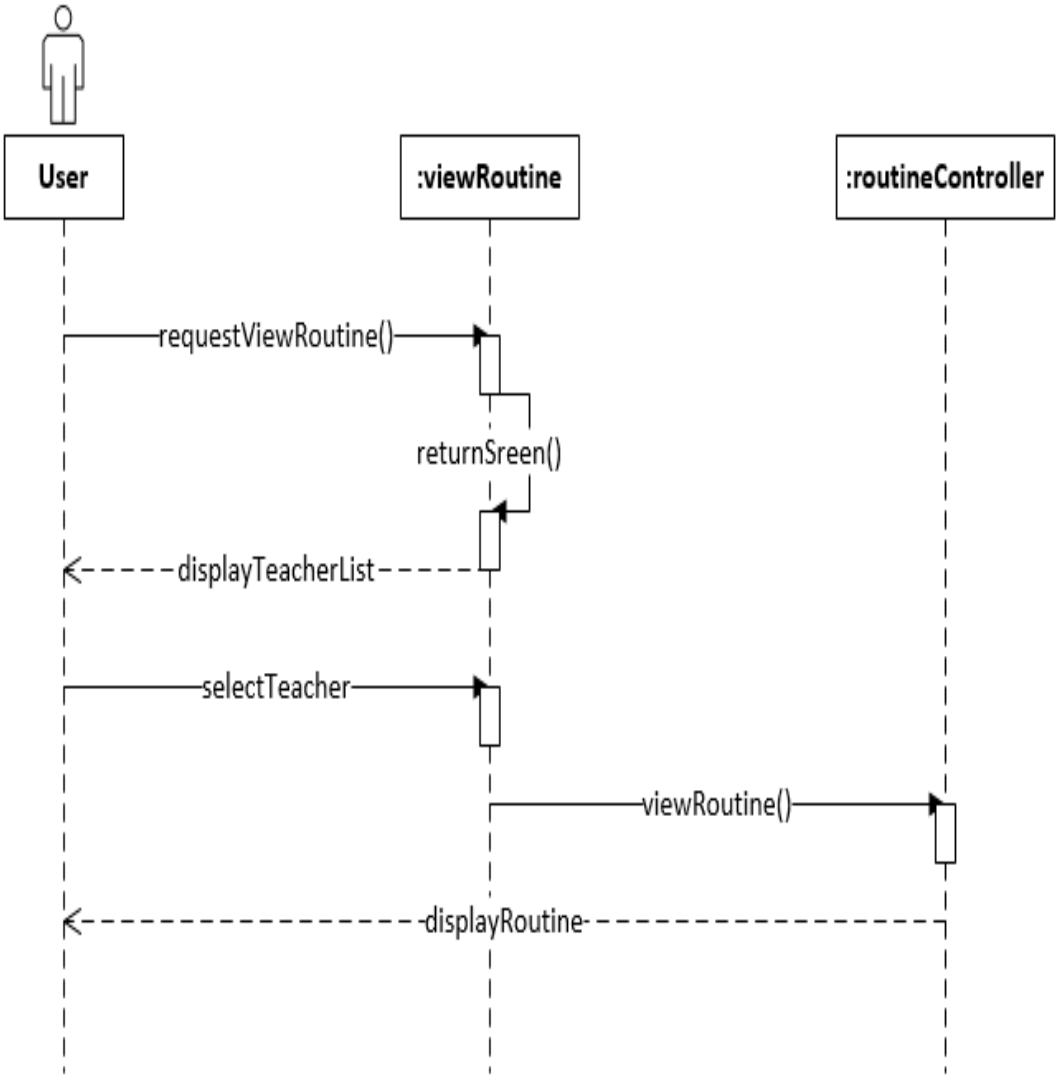

Figure 3.4.3: Sequence Diagram for View Routine [2]

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Appointment Request:

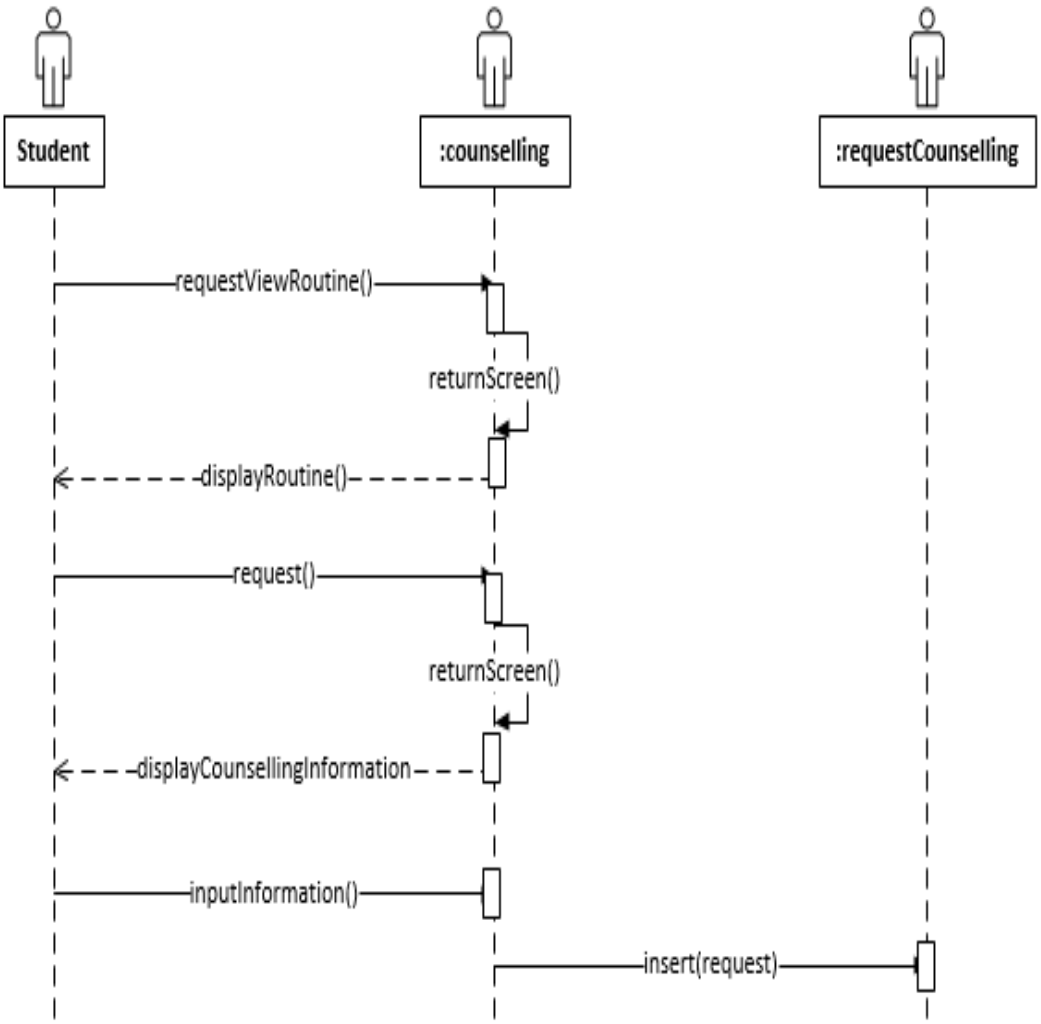

Figure 3.4.4: Sequence Diagram for Appointment Request [2]

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Send Message:

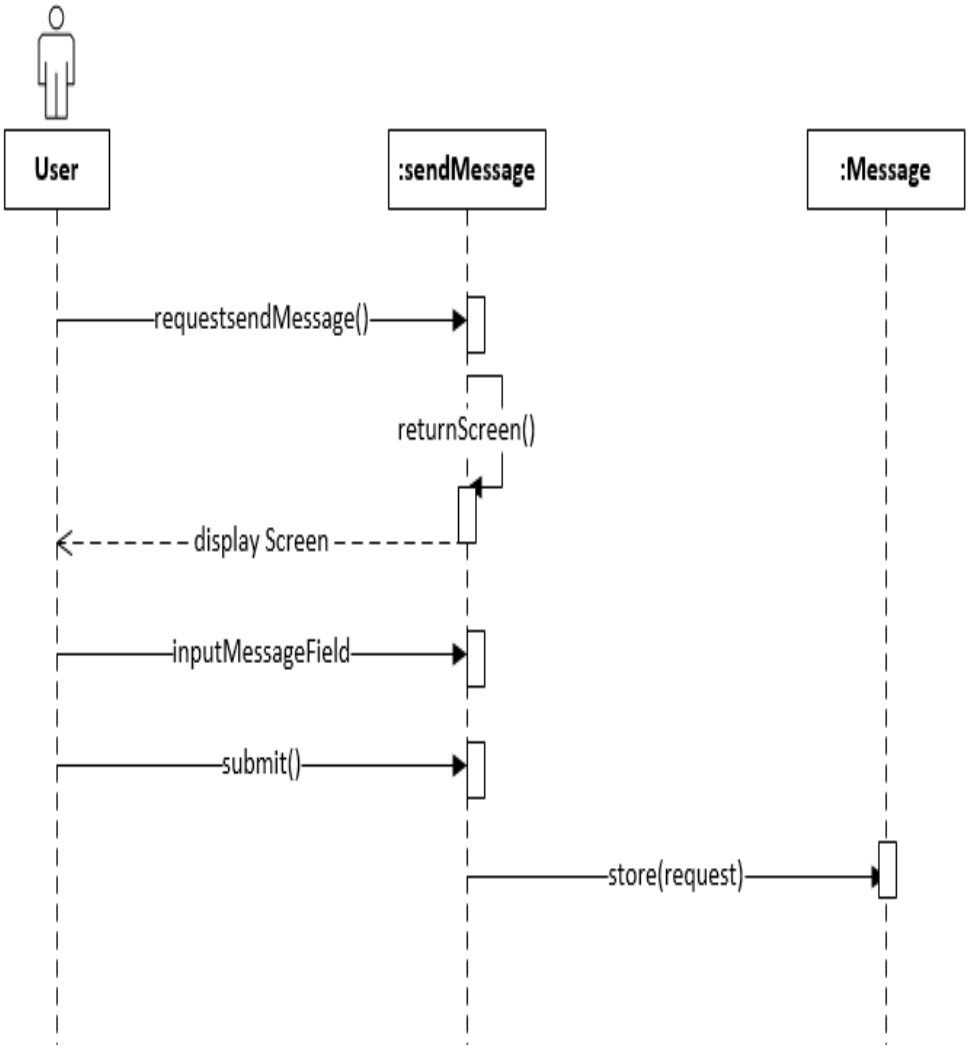

Figure 3.4.5: Sequence Diagram for Send Message [2]

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Upload File:

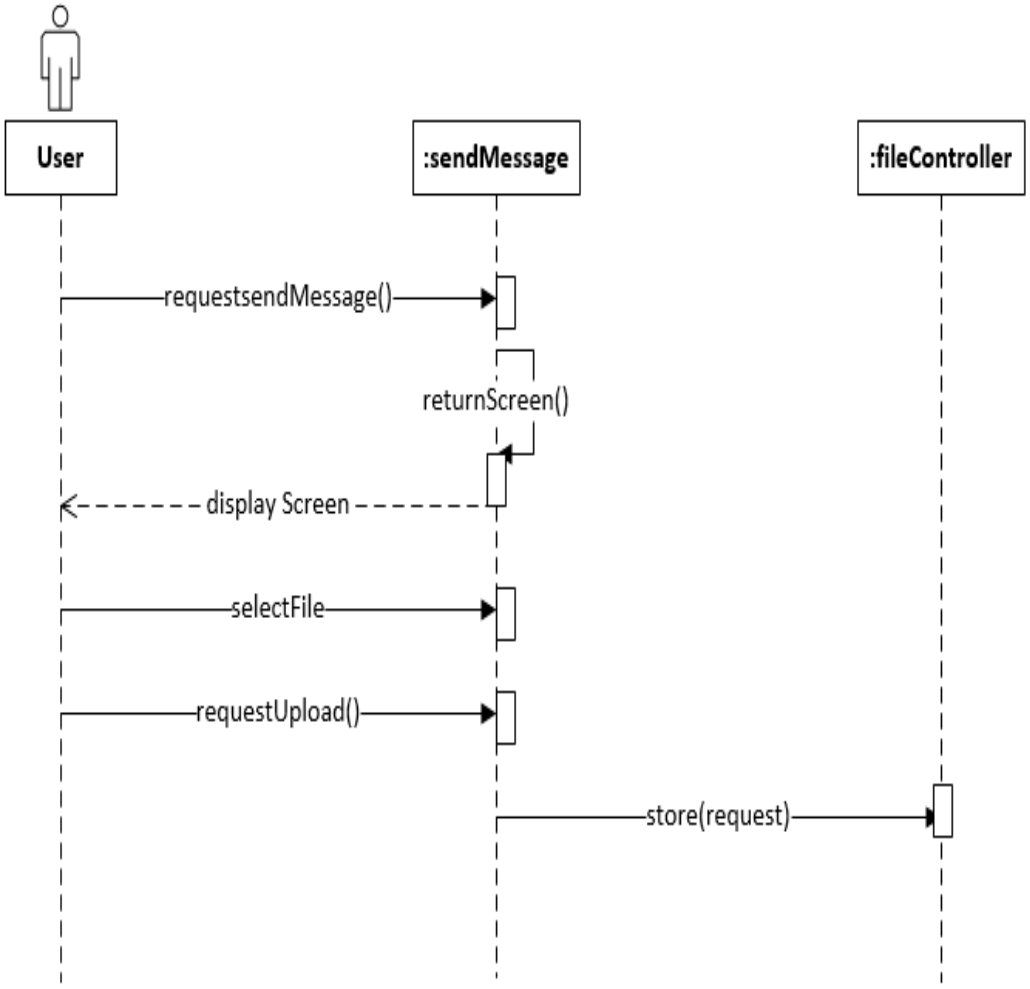

Figure 3.4.6: Sequence Diagram for Upload File [2]

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CHAPTER 04

4. System Design Specification

4.1 Class Diagram

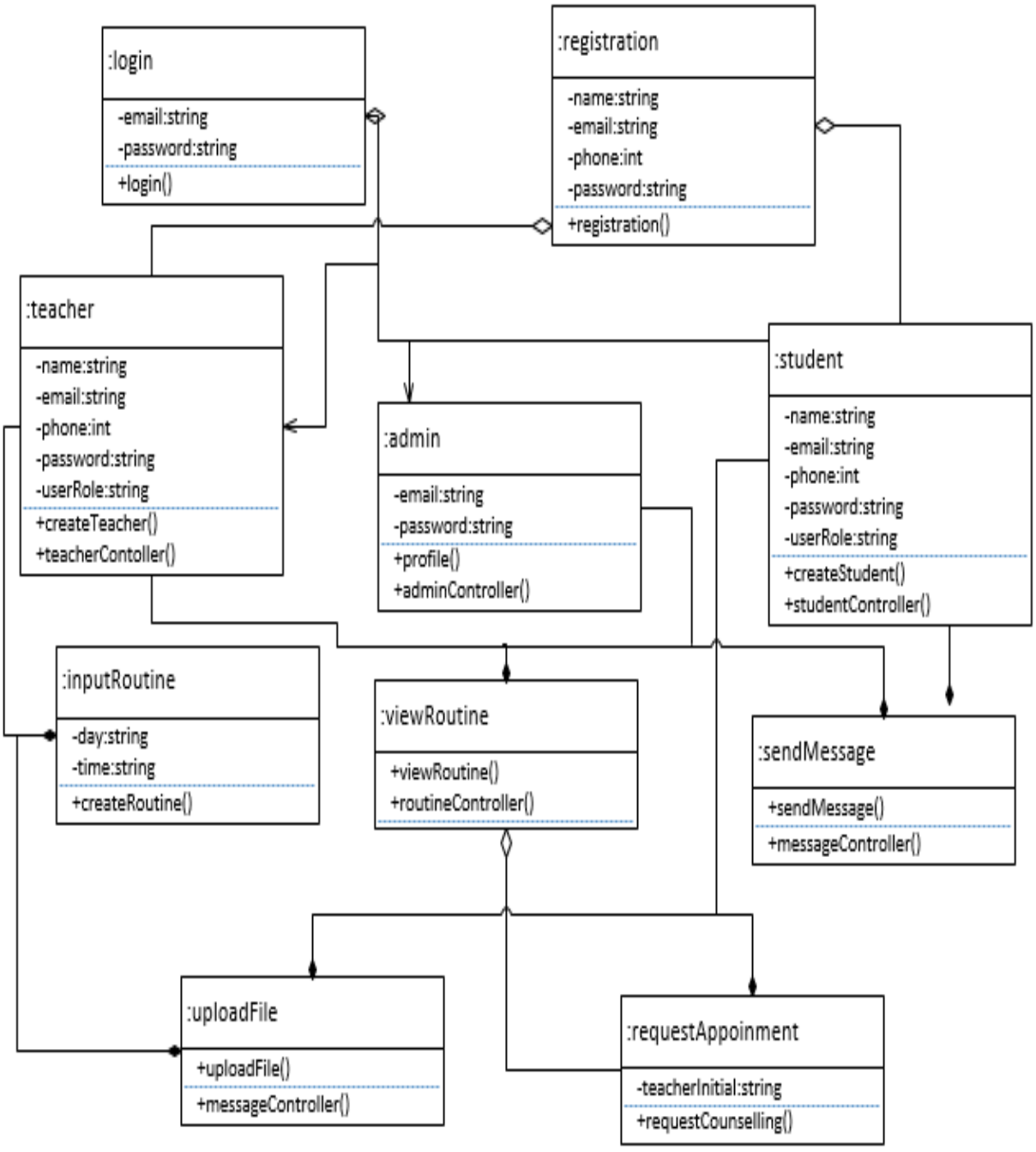

Figure 4.1: Class Diagram (Student Supervision System) [2]

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4.2 Entity Relationship Diagram

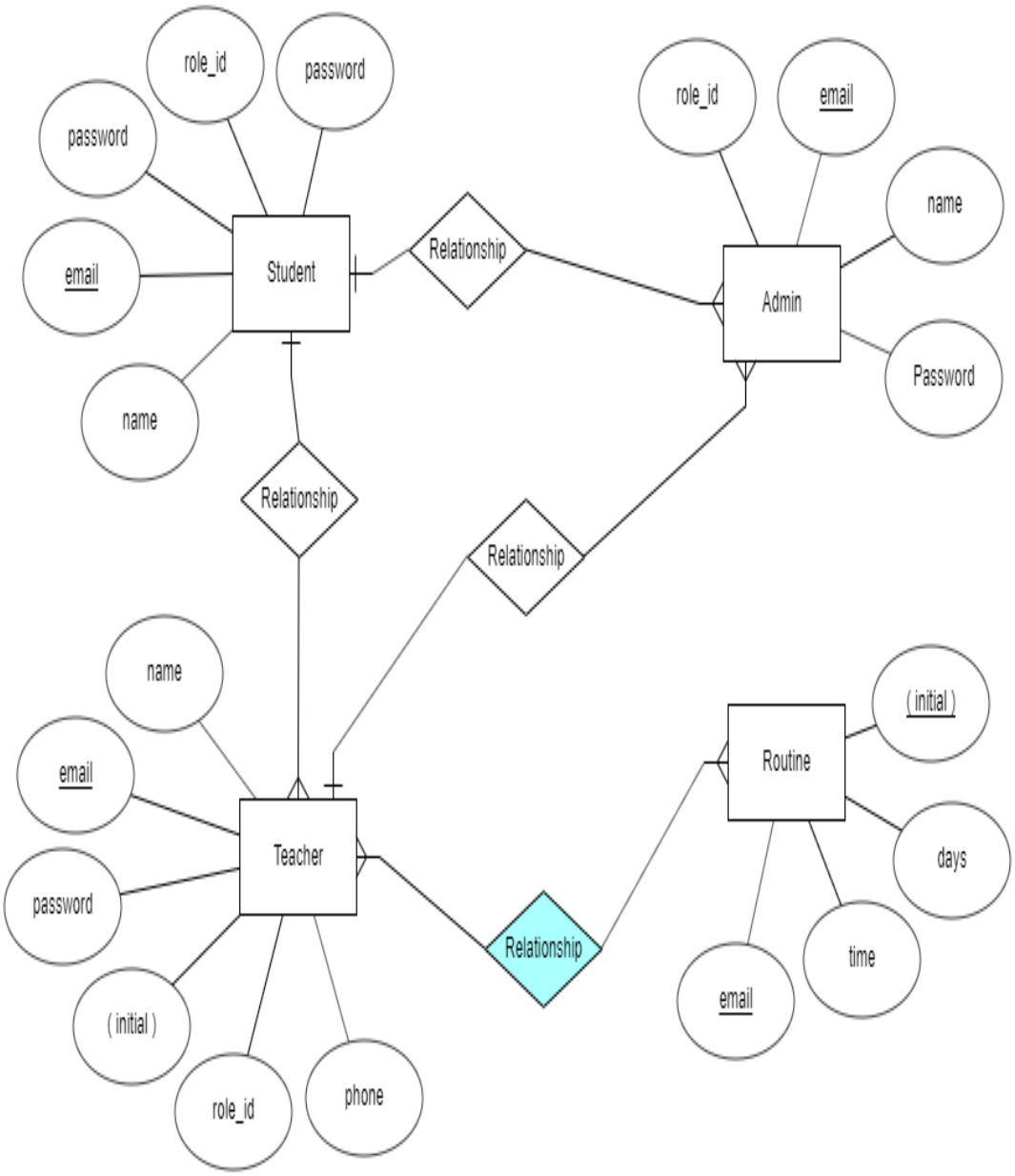

Figure 4.2: ER Diagram (Student Supervision System) [1]

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4.3 Development Tools and Technology

4.3.1 User Interface Technology

1. HTML 5
2. CSS 3
3. Bootstrap 4
4. jQuery Plugins
5. Brackets Editor

4.3.2 Implementation Tools and Platforms

1. PHP 7
2. LARAVEL Framework
3. MySQL
4. XAMMP
5. Windows PowerShell
6. Atom IDE

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CHAPTER 05

5. System Testing

5.1 Testing Feature

5.1.1 Feature to be tested

1. Registration
2. Log In
3. Input Routine
4. View Routine
5. Email Messaging
6. Upload File

5.1.2 Feature not to be tested

1. File format for download
2. Documents type

5.2 Testing Strategies

5.2.1 Test Approach

1. System will be tested manually.
2. The system will be tested based on user acceptancy.

5.2.2 Test Criteria

1. Integration: This test will be considered to be successful if object design architecture meets the requirements if not test will considered to be failed.
2. Component: Test will be considered to be passed if the object design meets the requirements and considered to be fail if not.
3. System: The test will pass if the case meets functional and non-functional requirements and if it doesn't meet the requirements it will considered to be fail.

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5.2.3 Suspension and Resumption

1. Regression Testing: The system should work properly after any changes occurs in system.
2. Build Acceptance Testing: This test will considered to be passed if every build is successful if not the system will try to build it again.
3. System Design Test: System should response properly if design is changed.

5.2.4 Testing Schedule

Test Phase	Time	Tested By
Test Plan Creation	5 days	Md. Robiul Islam
Test Specification Creation	7 days	Md. Robiul Islam
Component Testing	10 days	Md. Robiul Islam
Integration Testing	10 days	Md. Robiul Islam
System Testing	7 days	Md. Robiul Islam

Table 5.1: Testing Schedule

5.3 Test Cases

	Test Case: 01	Test Case Name: Registration

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	System: Student Supervision System		Subsystem: N/A		
	Pre-Condition: User should use a DIU email address to register in system.				
Step	Action	Test Data	Expected Result	Actual Result	Pass/Fail
1.	When user give an email address without domain name.	Name:Robi Email: robiulislam@gmail User Role: Student Phone:0180000567 Password:123456	The system will display a message to input a valid email id.	Registration is not successful	Pass
2.	When user doesn't fill up any information.	Name: Email: User Role: Phone: Password:	A message will be displayed to fill up the registration form.	Registration is not done and message is displayed.	Pass
3.	User miss one text field while registering.	Name:Robi Email: User Role: Student Phone:0180000567 Password:123456	The system should display a message to fill up all the field in the registration form.	Registration is not done.	Pass
4	User provide all information correctly.	Name:Robi Email: robiulislam@gmail.com User Role: Student Phone:0180000567 Password:123456	A notification of successful registration will be shown.	Registered successfully	Pass

Table 5.3.1: Test Case for System Registration

	Test Case: 02			Test Case Name: Log In	
	System: Student Supervision System			Subsystem: N/A	
	Pre-Condition: User should be log in with valid email id and password.				
Step	Action	Test Data	Expected Result	Actual Result	Pass/Fail

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1.	User input a wrong email address.	Email: robiulislam@gmail Password:123456	The system will display a message to input a valid email id.	Login failed	Pass
2.	When user enter a wrong password.	Email: robiulislam@gmail.com Password:123444	Notification to give a valid password will be shown.	Wrong Password	Pass
3.	When user doesn't fill up any field.	Email: Password:	A message will be displayed to fill up the email and password.	Login failed	Pass
4.	User provide correct email id and password.	Email: robiulislam@gmail.com Password:123456	Log in will be successful.	Successful login	Pass

Table 5.3.2: Test Case for Login

Test Case: 03		Test Case Name: Input Routine		
System: Student Supervision System		Subsystem: N/A		
Pre-Condition: Teacher must input one counselling slot at a time.				
Step	Action	Expected Result	Pass/Fail	Comment
1.	User miss one text field while providing counselling routine.	The system will display a message to fill up all field.	Pass	All fields are required.
2.	User fill up all required field correctly.	Routine input is successful.	Pass	All field needs to fill up correctly.
3.	When user doesn't fill up any field.	A message will be displayed to fill up the day and time field.	Pass	Day and time field is required.

Table 5.3.3: Test Case for Input Routine

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Test Case: 04		Test Case Name: View Routine		
System: Student Supervision System		Subsystem: N/A		
Pre-Condition: All user should log in to system.				
Step	Action	Expected Result	Pass/Fail	Comment
1.	User select any teacher to see counselling routine.	Teacher's information is shown.	Pass	Have to select teacher from teacher list.
2.	User select any specific teacher's routine.	Counselling routine is shown.	Pass	Have to select one routine at the same time.
3	Student doesn't select any teacher and want see routine.	Counselling routine will not be displayed.	Pass	Specific teacher needs to be selected.

Table 5.3.4: Test Case for View Routine

Test Case: 05		Test Case Name: Send Message		
System: Student Supervision System		Subsystem: N/A		
Pre-Condition: All user should be logged in to the system.				
Step	Action	Expected Result	Pass/Fail	Comment
1.	Student select teacher to send messages.	A text field will be displayed to write message.	Pass	One message can be sent at a time.

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2.	User send the message without writing anything.	A message will be displayed to write something.	Pass	Message can't be empty.
3.	User write messages and send it to recipient.	A message will be displayed to notify that message sent successfully.	Pass	Message can't be empty.

Table 5.3.5: Test Case for Send Message

Test Case: 06		Test Case Name: Upload File		
System: Student Supervision System		Subsystem: N/A		
Pre-Condition: Must be Logged in to the system.				
Step	Action	Expected Result	Pass/Fail	Comment
1.	User select teacher to send a file.	A field will be displayed to choose file.	Pass	User have to choose which file they want to upload.
2.	User press upload button to upload chosen file.	A message will be displayed to notify that file is uploaded successfully.	Pass	File needs to be selected.
3.	User send messages without uploading any file.	No file is sent.	Pass	File needs to be uploaded.

Table 5.3.6: Test Case for Upload File

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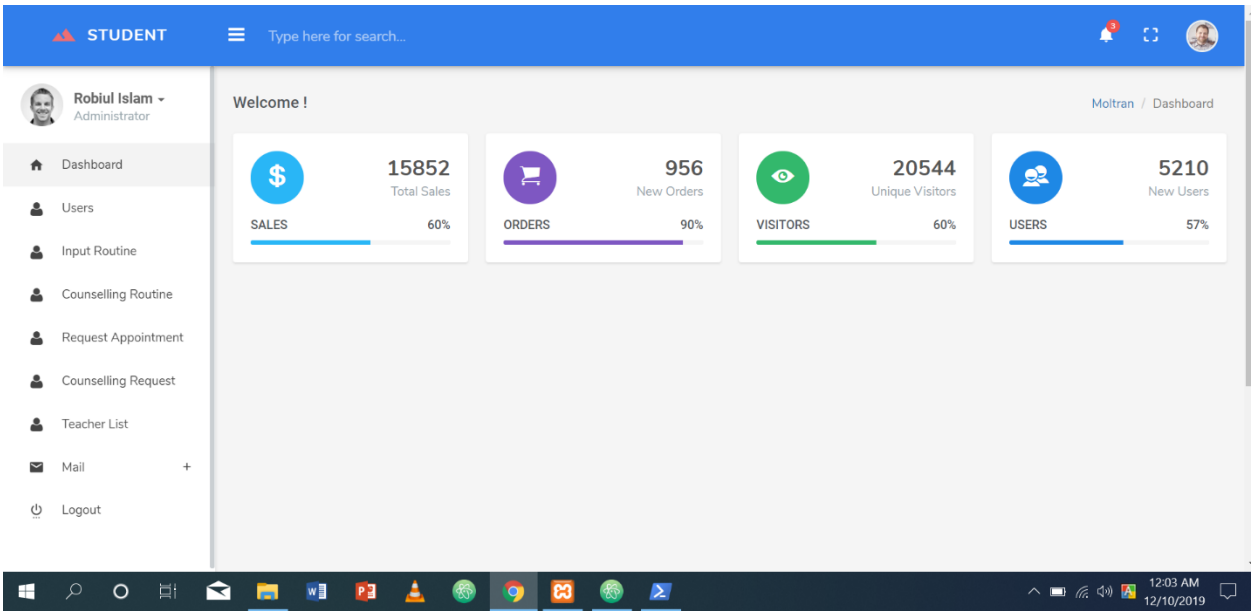
CHAPTER 06

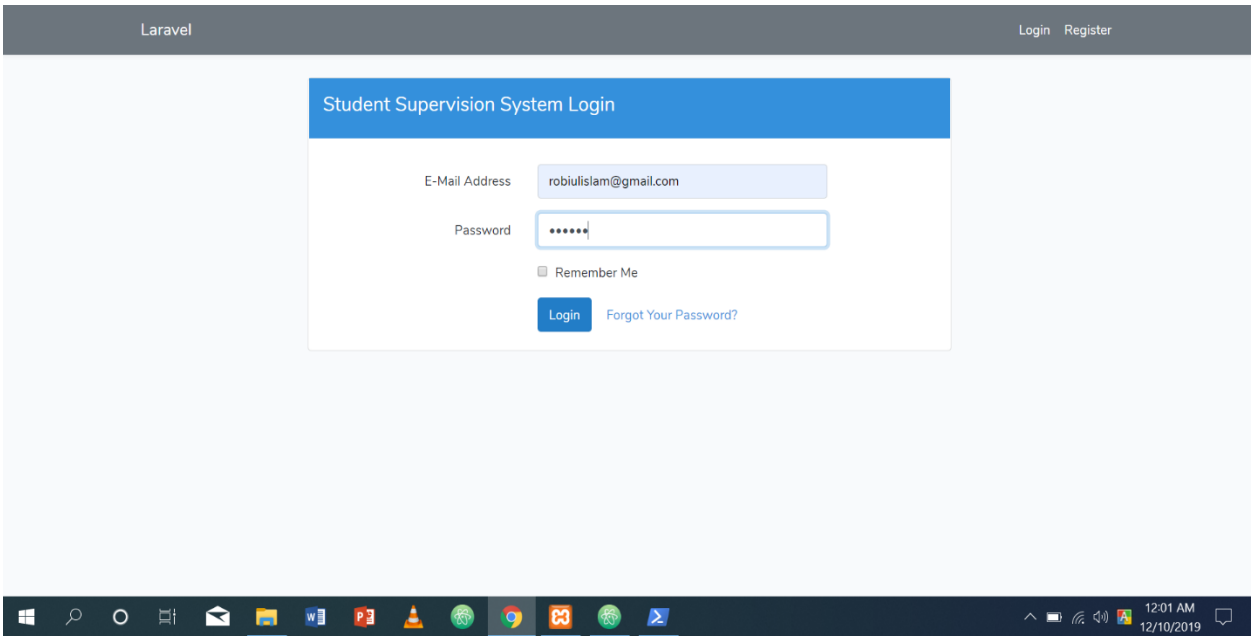
6. User Manual

6.1 User Manual (User Type: Admin)

This the view of Admin Panel. Admin can monitor the whole system from here.



This is Login Page. Here admin will provide email id and password to login to the system.



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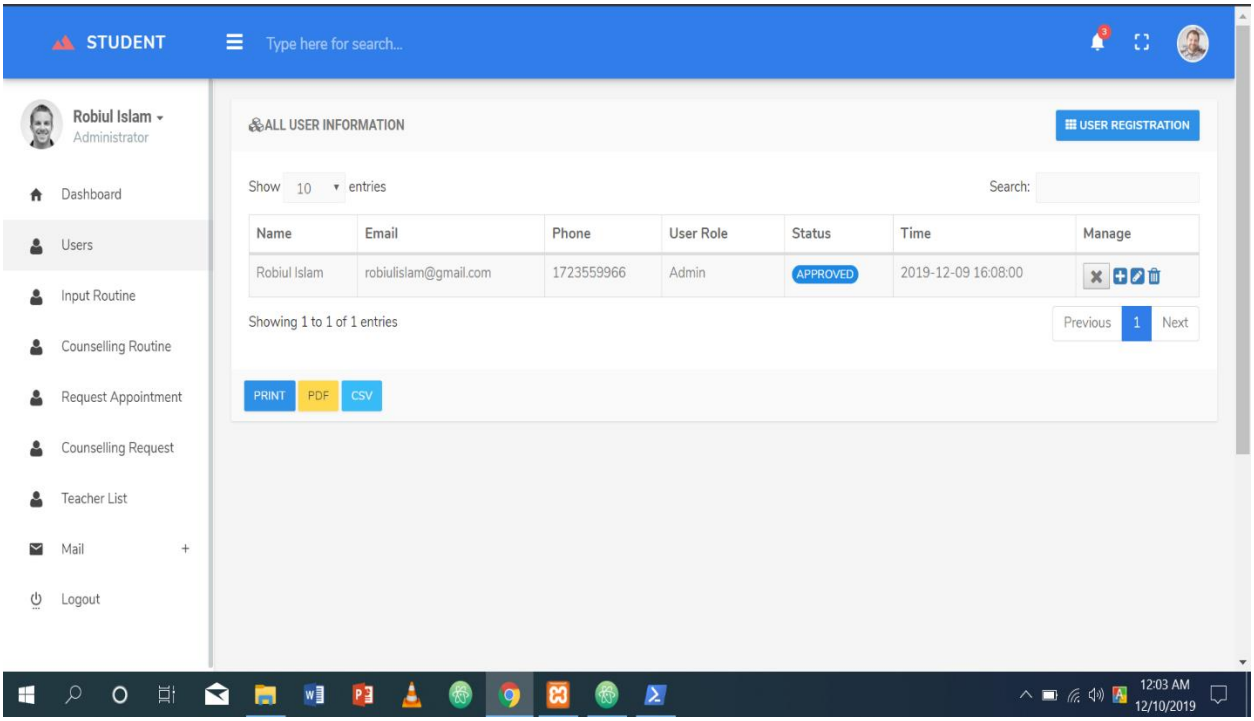
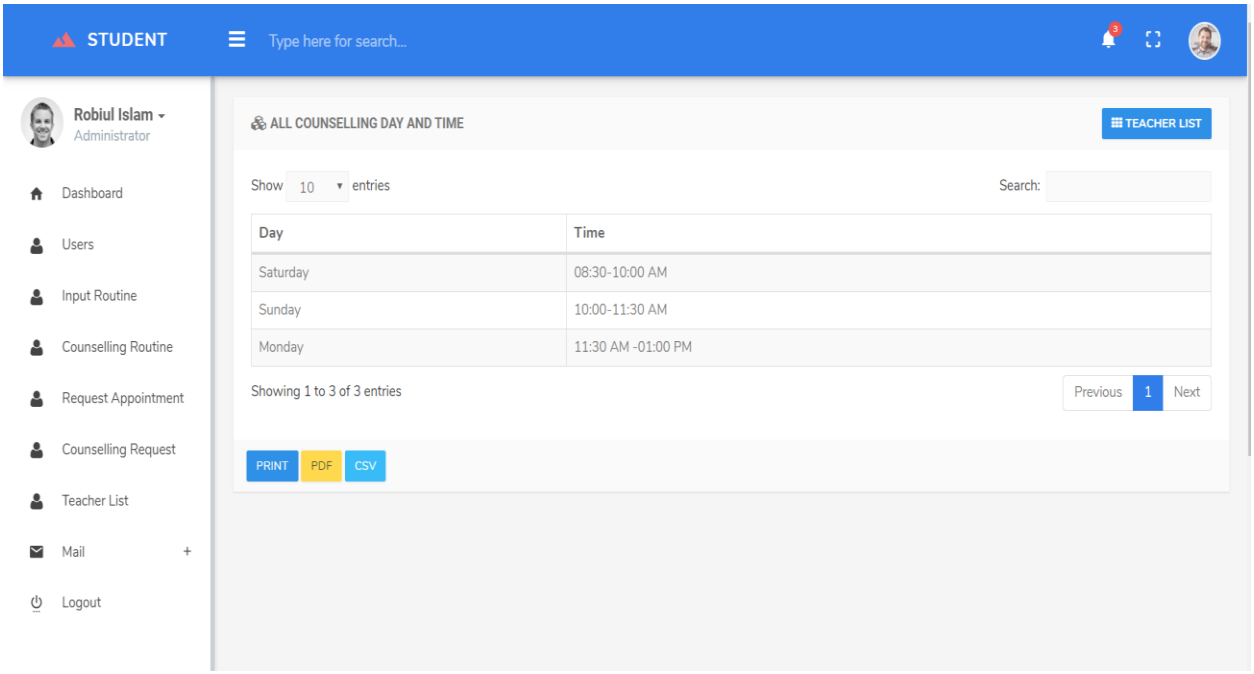
When new user register to the system, admin can approve or reject registration from here.



Admin can view any teacher's counselling routine.



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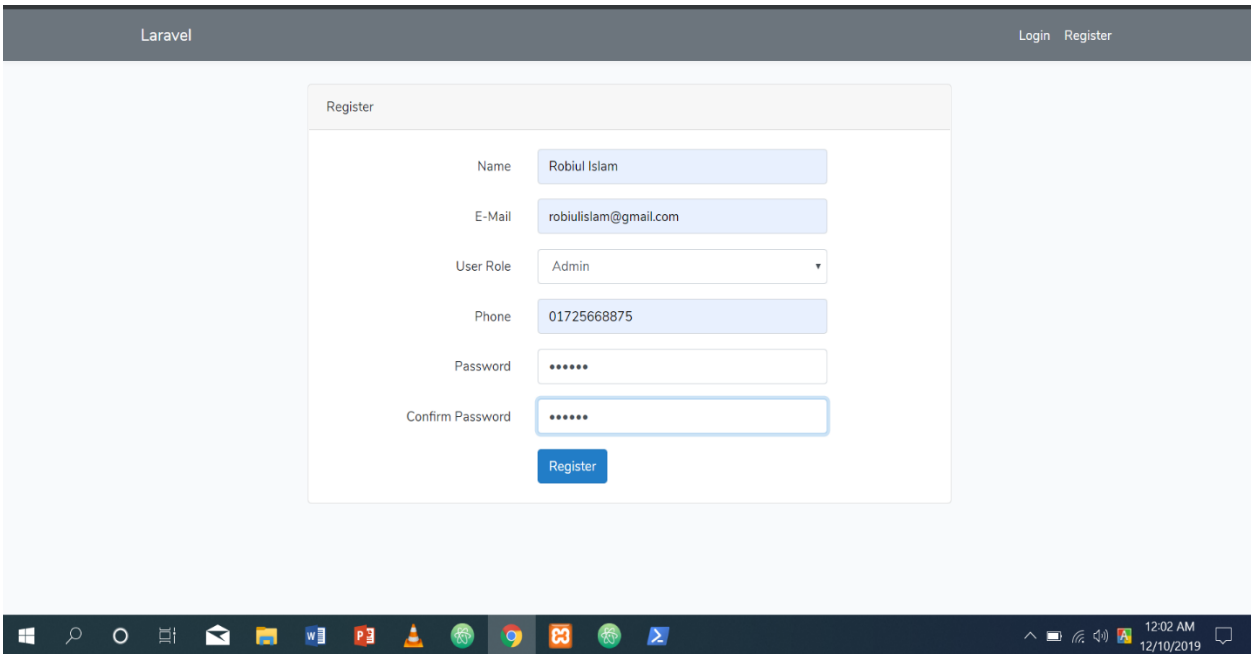
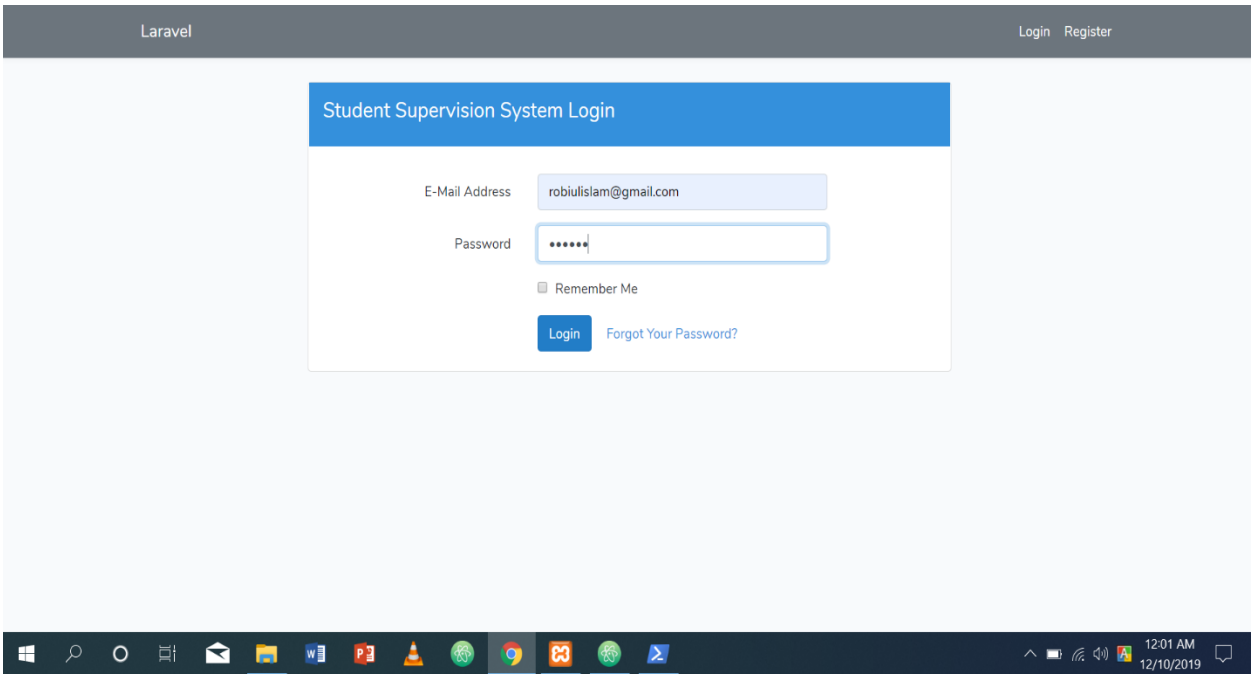
6.2 User Manual (User Type: Teacher)

Techer have to register to the system by clicking register button from this page.



Teacher will login to the system from this page.



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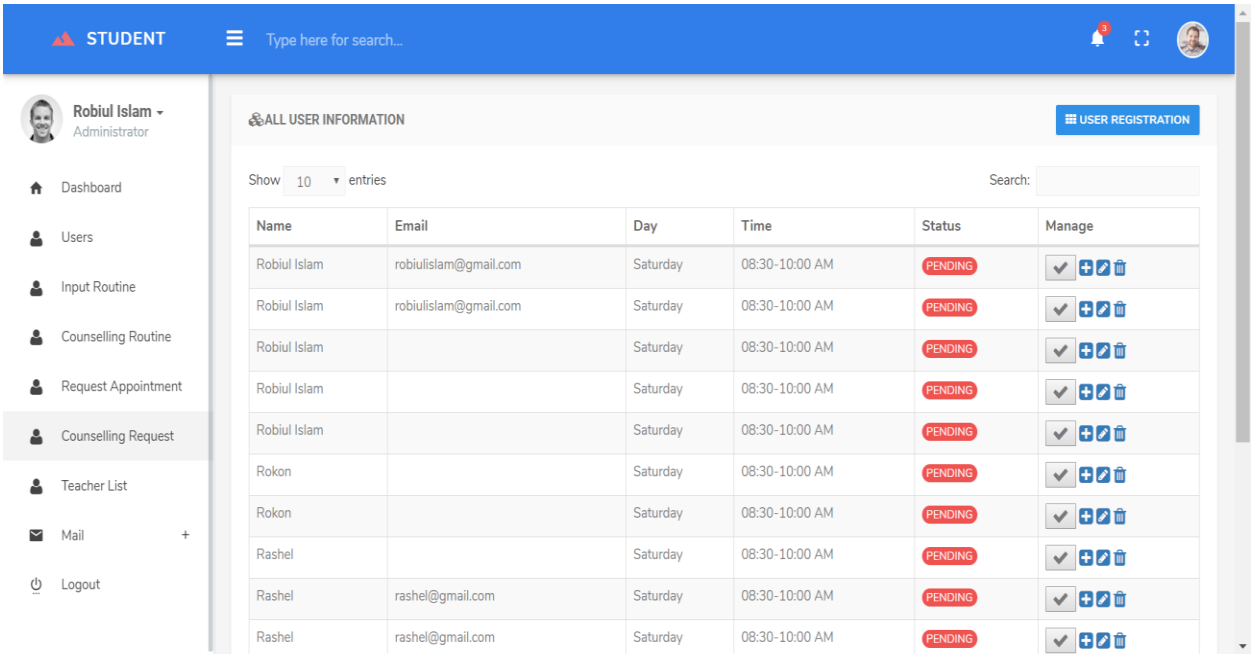
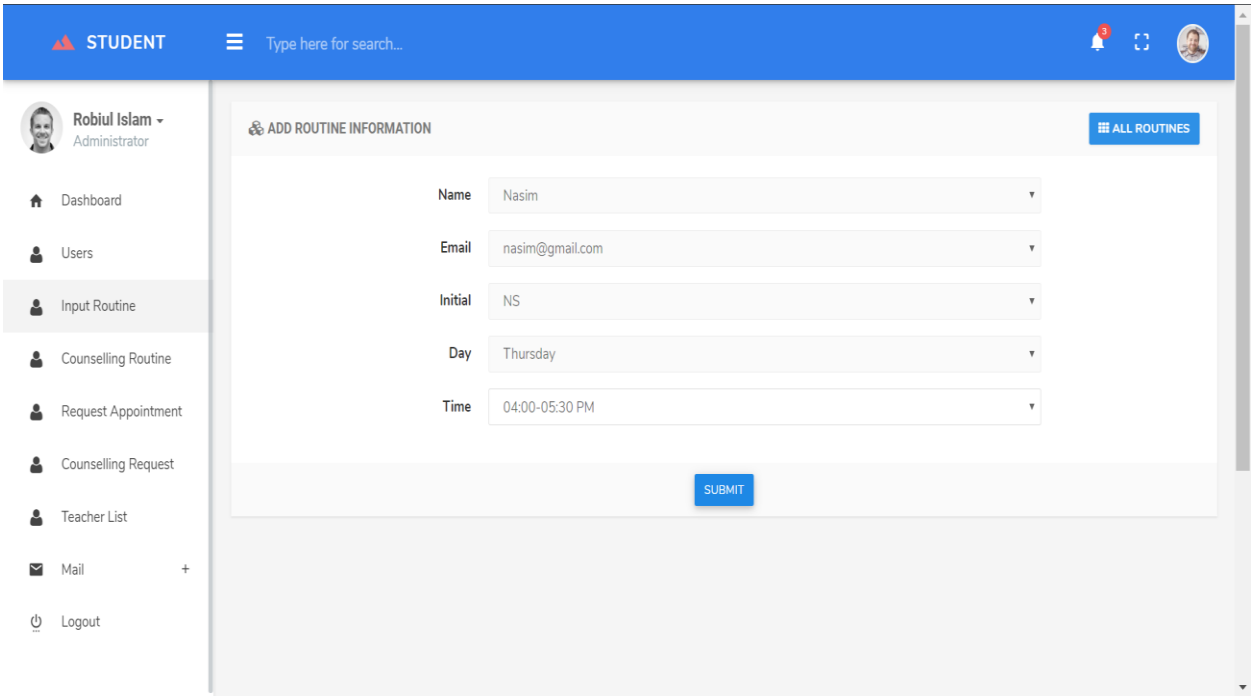
Teacher can see all the pending counselling request in this page and can accept or deny request.



In this page teacher will input his/her counselling routine.



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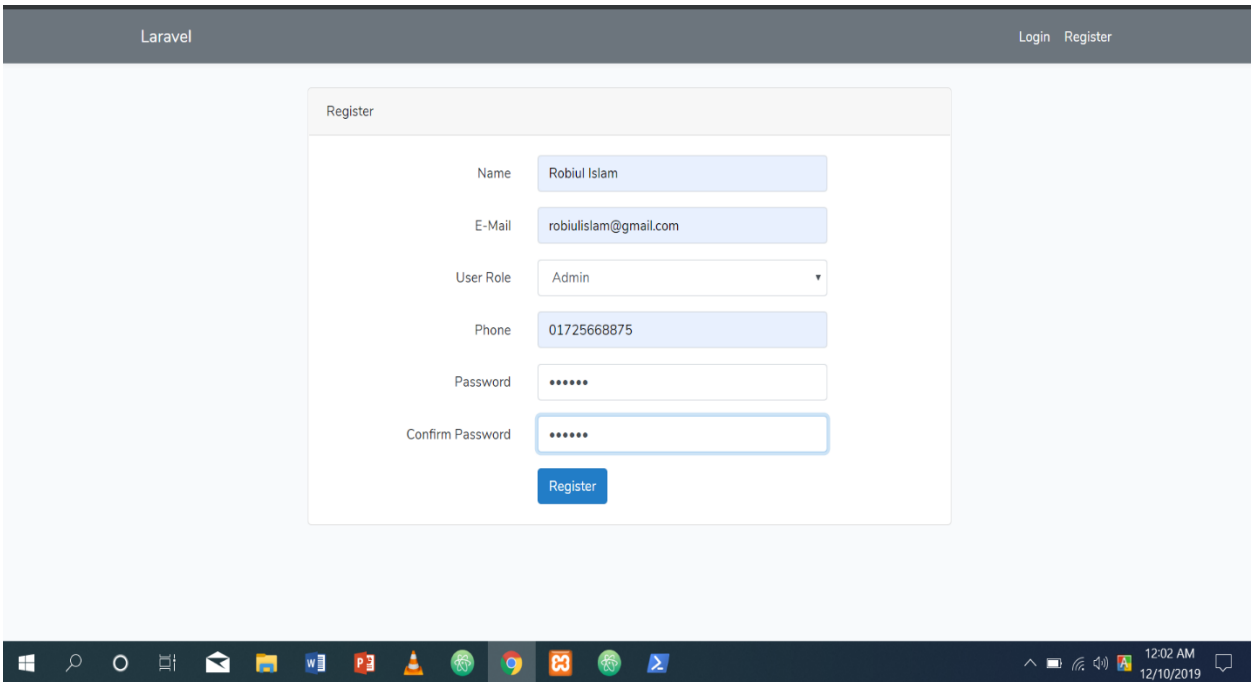
6.3 User Manual (User Type: Student)

This is the home page of the system. In this page user will find login and registration button.

New user will register to the system from this page.



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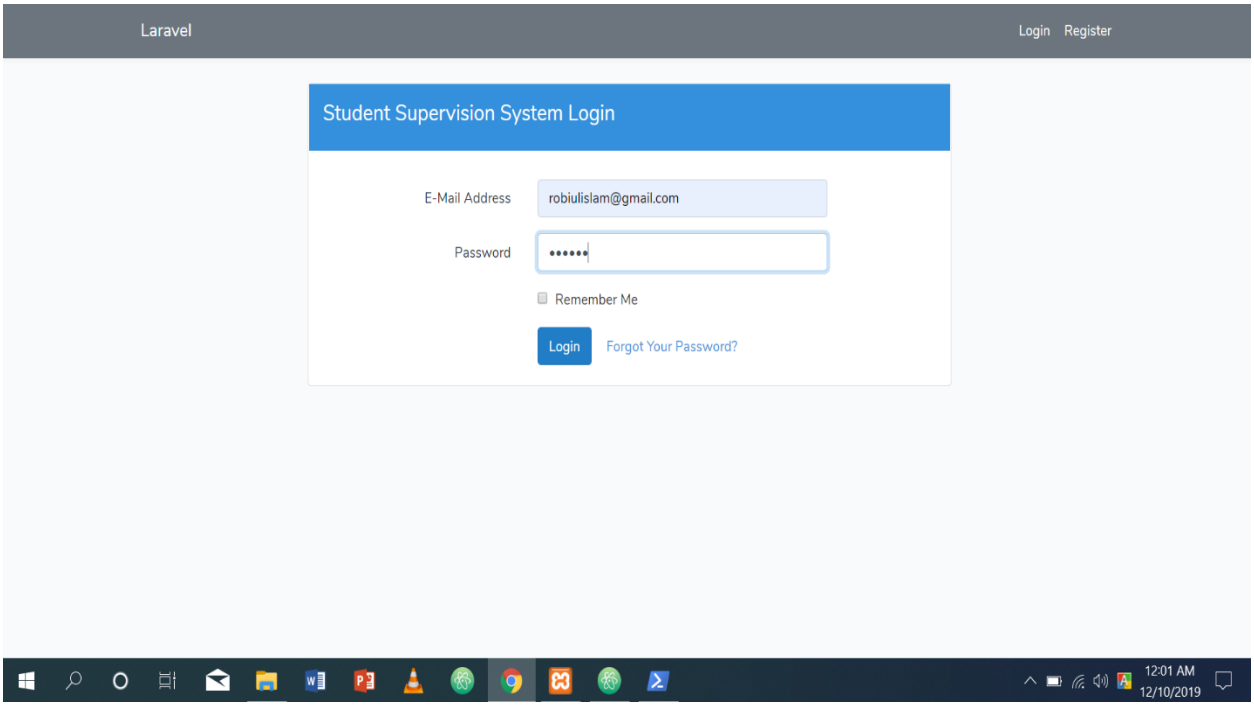
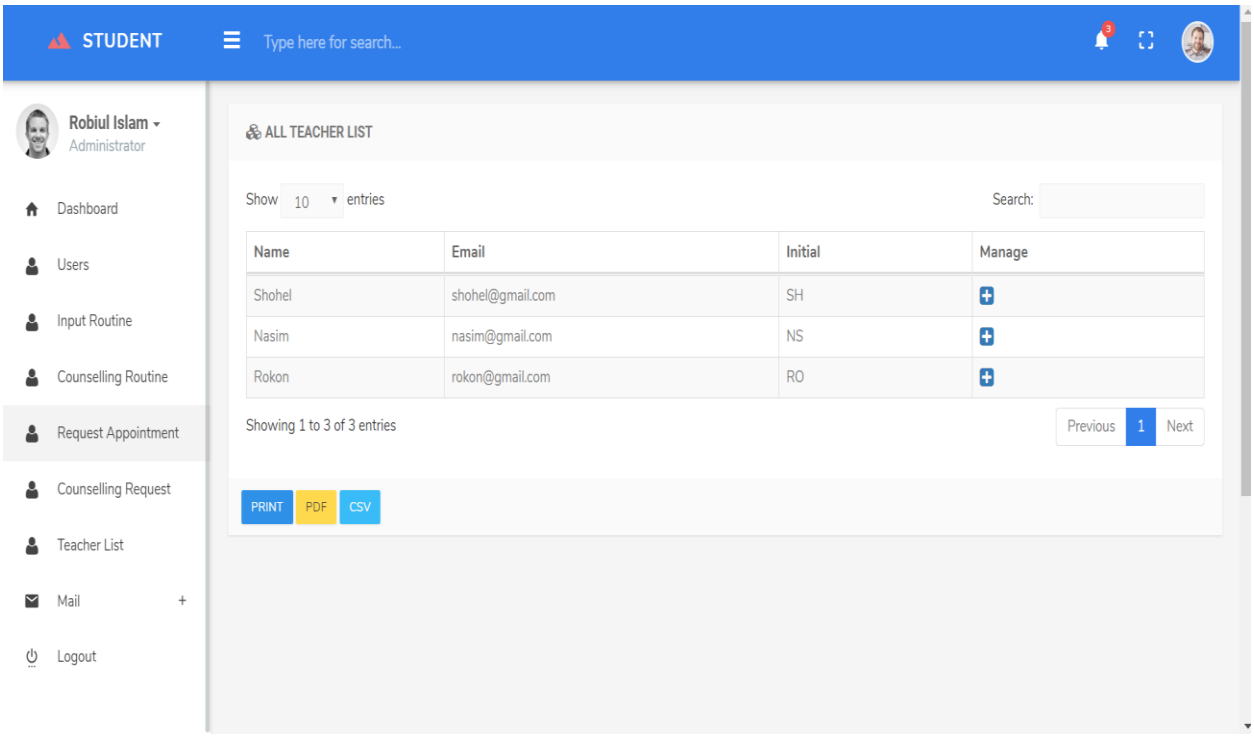
Login page from where students will login to the system.



From this page students will select specific teacher name to view counselling routine.



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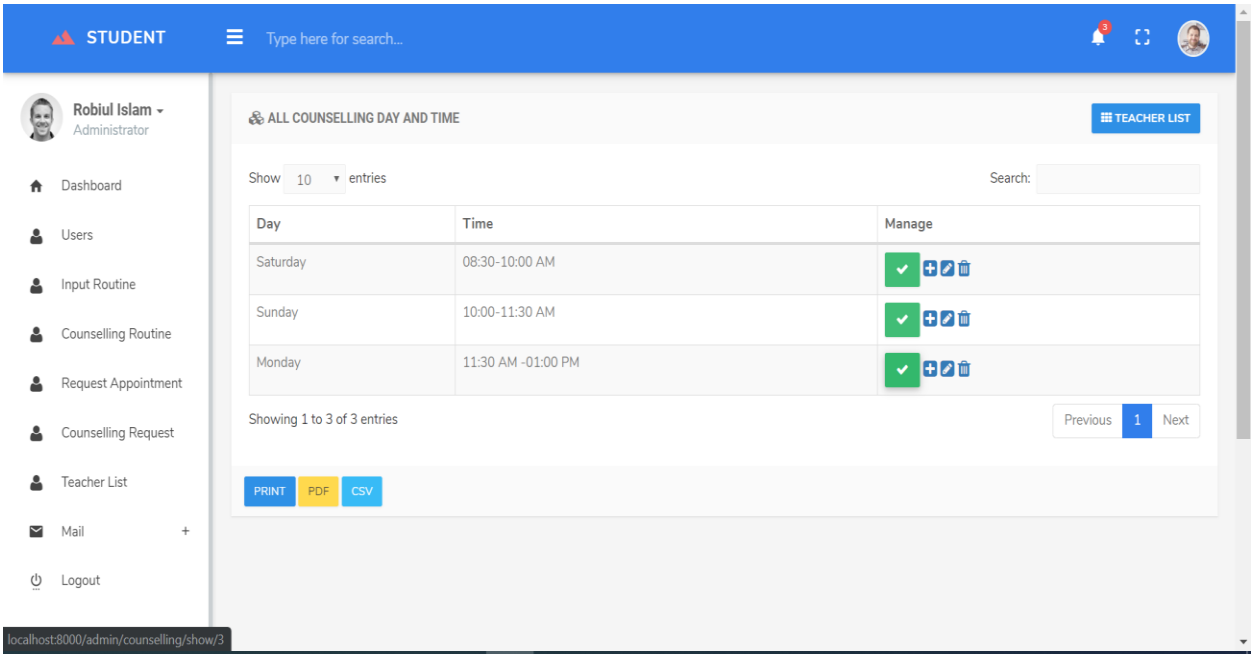
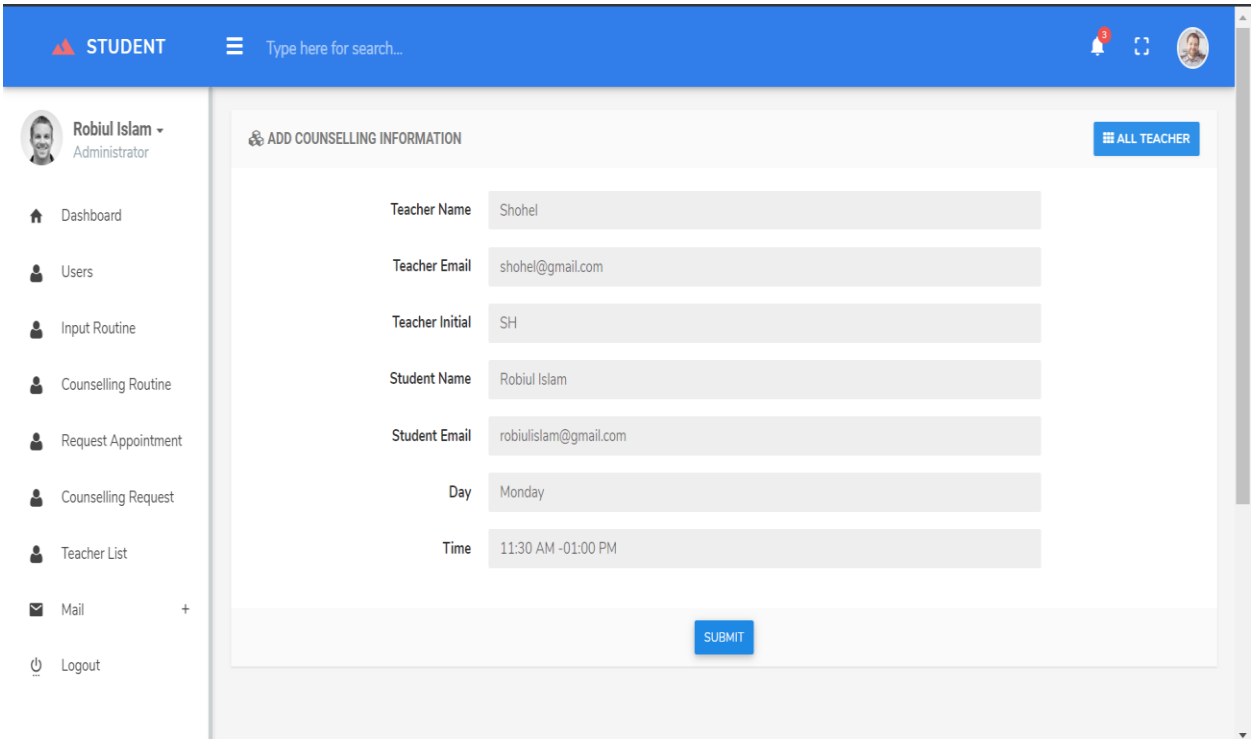
In this page student can view teacher's counselling routine and can request for appointment.



To send counselling request students have to fill this form in this page.



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CHAPTER 07

7. Project Summary

7.1 GitHub Link

Link: https://github.com/robiulislam5567

7.2 Critical Evaluation

Technology is improving day by day. We have limitations to keep up with everything each day. New technologies can be implemented to make this system (Student Supervision System) better. Though no approach is spare to make this system flawless there has some limitations in this system.

7.3 Obstacles and Achievements

Due to the advancement and regular upgradation it's very difficult to work with new technology. This project is running on localhost in feature. The system will help students to view teacher's counselling hours in the easiest way. They will also be able to make appointment via online.

7.4 Future Scope

Online Supervision System will be used to assign counseling time to desired students who seek for an appointment with a specific teacher via online. They can also communicate each other and share file. Thus the Online Supervision System will make easier the student counseling process. The system will make student counselling process much easier and convenient. To increase the efficiency of this system can be added.

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CONCLUSION

Although the system "Student Supervision System" is developed without lacking of efforts to make the student counselling easier there is some limitations exists in the system. I have tried by best eliminate those limitations. This system is currently running on localhost. In future the system will be taken on web. This project is grown distinctly for Daffodil Internationals University.

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APPENDIX

This report may include any supporting material, which is not essential for the main body of the report.

These could be-

1. Detail user requirements
2. Tables
3. Diagrams
4. Project literature review
5. Test plan and results
6. User Manual

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