



Daffodil
International
University

Project/Thesis Assigning System

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A project submitted in partial fulfillment of the requirement for the
degree of Bachelor of Science in Software Engineering

Department of Software Engineering
DAFFODIL INTERNATIONAL UNIVERSITY

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APPROVAL

This project report titled “Thesis/Project Assigning System”, submitted by Md. Toufiq Elahi Plabon, ID No: 152-35-1206 to the Department of Software Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfilment of the requirements for the degree of B.Sc. in Software Engineering and approved as to its style and contents.

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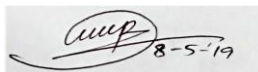
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Executive Summary

During last semester we students of the Daffodil International University have to take a three-credit course as the final project or thesis. For that understudies need to present their thought regarding the region where they need to work. After the submission of forms, the authority members check the submitted applications forms and enable them to partake and appoint a supervisor to each gathering based on their territory. All the procedure has traced above is done manually.

So this project is to start, evaluate and refine an online application that will do every one of those manual work into an automated version. It will help to save time and students can do apply for their thesis online, who come physically only for form submitting even committee could not give the time. Sometimes it happens that students do not submit their form on time. Therefore, our committee members face difficulties to organize all applicants forms and select their supervisor. In this project, there can reduce the complexity of the procedures by doing all task with synch. This report talks about the major of the online application, which gives establishment of online Thesis Assigning System with automated from a manual task like as enrollment for definite protection, from accommodation and so forth. To satisfy the necessity I likewise examined with proposal advisory group and our administrator.

Finally, I hope that this application the entire necessities elicitation which was additionally exceptionally accommodating to the (Thesis/Project Assigning System).

CHAPTER-1 INTRODUCTION

1.1 Introduction

we all are dependent on technology for any purpose. In the past, we would never have thought that at home we would be able to have a conversation on the far side. But now it has become a very ordinary matter to us. Even now we can study abroad while sitting at home, just for this development of technology. Even now we can study abroad while sitting at home. Just for this development of technology. We have got the chance to use various facilities of this kind in our university too. This system is also this kind that our students, teachers will be facilitated. This web application is extremely useful for understudies to present their undertaking and for a board of trustees to dole out the manager to students. The system will figure out how to do practically everything online. This application will discharge from the burden that we need to work physically.

1.2 Motivation

Sometimes due to a strict schedule, the timing of teachers and students do not match. It becomes impractical for the students who come from far away to adhere to a strict schedule. It also becomes confusing for our committee member to organize the applications hard copy and also waiting for student's submission on time. Due to modern technology, we can do many of our educational tasks online at our university. So I think that it will be easier for students and our faculty/committee like another task.

1.3 Objectives

The main purpose of our project is releasing the load from our committee member and make it digitalized. TPAS (Thesis/Project Assigning System) is a project to organize the whole procedure of applying for the final project or thesis and make the process easy and stress out for the committee who are monitoring all this manually. It includes form accommodation, application acknowledgement, supervisor determination, supervisor appointing and get informed about the updates online. The application has

the notification sending process that supervisor will notify about her student and student also see their supervisor update. They can also contact a supervisor with it. So they don't need to come physically to know the updates. I just want to make this system helpful for our committee, supervisor and students.

1.4 Expected Outcomes

- Easy to apply for the final project
- Easy to maintain applicants form
- No problem with the time schedule
- Easy to assign a supervisor
- Can see the application status online
- Easy to consult with a supervisor

1.5 Benefits of PTAS (Project/ Thesis Assigning System)

- **Save time and resources:** Since TPAS will help to get registered online and allow to apply for final defense. Help to directly submit the form within time.
- **View application status:** is any supervisor is given against that form or not student can view on application status
- **Can informed about Supervisor:** to get informed about his or her supervisor-student don't need to come university, they will be notified when there assigns a supervisor against them.
- **Well organization:** the committee can well organize the submitted application form without confusion.
- **Applicants information:** committee members can view the student's list and information online and manage them online without mismanagement.

CHAPTER 2 BACKGROUND

2.1 Introduction

In recent days most of us use various application for a different purpose. In the educational sector, we also do our work online. In daffodil university, there have lots of web application for an individual task like as teaching evaluation, pre-registration, attendance-system, google-classroom and many of these. But in this case of thesis assigning or project assigning, there have to do to all task manually. If it becomes online based, then it will be more comfortable for us. It will be also time-consuming. Committee members can monitor the submission online they need not handle the forms hard copy. Even they can assign the supervisor through the system and supervisor and student will be notified automatically. So this platform will be favorable to all. That is why we had decided to make an application to make it easier.

2.2 Related Work

It is a web-based application. Some similar applications are student portal, online application existing in our varsity. To upgrade our certificate, we need to apply by submitting an application form in the student portal and in the case of online application is have the similarity in form fill-up. And in the student portal the authority register students randomly with their id, here also committee register the supervisor as the same process. It is also kind of similar as our advising system. Here also need to assign a course to a student.

2.3 Scope of the Problem

There are many opportunities for PTAS (Project/Thesis Assigning System). Initially, it will apply to only the students for taking their thesis for our faculty (SWE). When it will complete successfully it can be used for another department.

- This system can be used for further appointing system.
- It can be used not only for software department but also for other departments.
- This can be used also for assigning the task to an employee.
- This system will generate the teacher-student meeting date

2.4 Challenges

It's a typical thing in playing out a movement is testing. There is no work exists without challenges. Likewise, we also faced some exception in our project. If it became possible to get student's data, then it will be possible to analyze the last semester students for defense permission. Students id could not be verified as don't get access to the student database.

CHAPTER 3 REQUIREMENTS SPECIFICATION

3.1 Requirement Collections and Analysis

The requirement is the most essential and critical components for fabricating applications. Prerequisites are gathered, shape partners. At the principal phase of arranging, we chatted with some customary individuals like as understudies, working individuals, relatives, individuals who are far from the family, study or work from the inn. To discover their impediments of the framework then we make arrangement to build up this product. We additionally made a few inquiries to distinguish their necessities.

3.2 Stakeholders

- Student
- Admin(committee)
- Supervisor

3.3 Functional Requirements

3.3.1 User Registration:

Features:

This module will allow a user of the system to register. A new user will add an unauthorized user will identify.

Reports:

Add a new user. Detect an unauthorized user.

3.3.2 Login: Admin login

Features:

This product will have the capacity to offer authorization to get to the site to the registered user. Counteract unregistered user to get to the software. An administrator can get to the entire system.

Reports:

This module will help to prevent unauthorized user's access and allow logged in registered user. By logging in the admin can get access to admin page and view the following summary.

3.3.3 Login: Student login

Features:

This product will have the capacity to offer authorization to get to the site to the registered user. Student can log in to the system and fill and submit the application form. Also student able to view the time and status.

Reports:

This module will allow to access the student portal and allow to apply for thesis. Can see the supervisor field also.

3.3.4 Login: Supervisor login

Features:

This module will give access to login to the system as a registered supervisor. The supervisor will be registered by the admin and can log in to the supervisor portal.

Reports:

This module will give access to the supervisor portal. Supervisor can see his/her student's information.

3.3.5 Home

Features:

Here the software will show the main page of the website. There will have the registration module and login module. There will show the number of registered students and the number of our registered supervisor. There has the gallery option.

Reports:

The module will give the accompanying report looking field the information that can be visible to clients. Store all registered student number and supervisors.

3.3.6 Home: Student**Features:**

This function is for student. Here will show the last date of submission with remaining time.

Reports:

In this module student will see their submission date and remaining time. This is only for student.

3.3.7 Application form:**Features:**

Student can fill-up application form online and apply for final defense and submit the form.

Reports:

Students are allowing to fill the form. After submitting the form get a successful message and ensure that the form successfully submitted.

3.3.8 Application status:**Features:**

When application form will submit against a student then the student will allow to see the application status.

Reports:

Students can see own application status.

3.3.9 My supervisor:

Features:

This module is for view selected supervisor name.

Reports:

Show assigned supervisor name and details.

3.3.10 Home: Admin

Features:

This module is in admin portal after accessing the portal admin can see the application list with details.

Reports:

All submitted application will view here with a details function where will view the details.

3.3.11 Role:

Features:

This module is for view all role of the system

Reports:

Show all created role of the system like student, admin, supervisor etc.

3.3.12 Create Role:

Features:

Admin can create role here. Only admin can get access on this.

Reports:

System will send a successful message.

3.3.13 Delete Role:

Features:

With this module admin can delete role of system.

Reports:

This module gives access the admin to delete a role. Send a successful message.

3.3.14 Edit Role:

Features:

This module is for update a role.

Reports:

This module permits the admin to update an existing role. Send a successful message.

3.3.15 Students:

Features:

Admin will see all registered student's info here.

Reports:

This module will show the students list.

3.3.16 Supervisor:

Features:

Supervisors list will be shown here with a role change action.

Reports:

All registered supervisor by admin will show in the supervisor module.

3.3.17 Set timer:**Features:**

This module is allowed admin to set a submission time to apply for.

Reports:

System sends a successful message as notification.

3.3.18 Edit timer:**Features:**

Admin can update submission date or time of submission if necessary by this module.

Reports:

This action will reply with a successful message.

3.3.19 Home: Supervisor**Features:**

This module is for supervisor. To login the system supervisor will get access to home page and can see the students list whom are under his/her.

Reports:

By logged in system will give access to this home page.

3.4 Non-functional Requirements

3.4.1 Performance Requirements

Performance maintaining is very important in software. In software engineering and requirement engineering non-functional requirement is a requirement that specifies various criteria that are used to judge the operation of the system instead of specific requirements. To ensure good software it is important to maintain a well and good performance of the system. Performance requirements define acceptable response times for system functionalities.

- The run time of the project for user interface screens shall not take time more than two seconds.
- The login system shall be justified inside five seconds.
- The queries shall more responsive and return results inside five seconds.
- The system shall consume very little of primary memory.

3.4.2 Security Requirements:

- user service representatives and admin will be able to login to the leave management system.
- user service representatives will have access to the leave management and scheduling subsystem.
- admin will have access to the management subsystem as well as the leave management and scheduling subsystems.
- access to the various subsystems will be protected by a user login screen that requires a valid user id.

3.4.3 Software Quality Attributes:

3.4.3.1 Standards compliance

There shall be consistency in variable names within the system. The graphical user interface shall have a consistent look and feel.

3.4.3.2 Reliability

Determine the variables required to set up the required reliability quality of the product at time of conveyance.

3.4.3.3 Availability

The shall be available 24*7. Means all the time whenever user wants.

3.4.3.4 Maintainability

The leave management system is being developed in PHP. PHP is an object-oriented language and shall be easy to maintain.

3.4.3.5 Portability

The leave management system shall run in any device that contains internet and MySQL access database.

3.5 System Analysis

3.5.1 Use Case Model

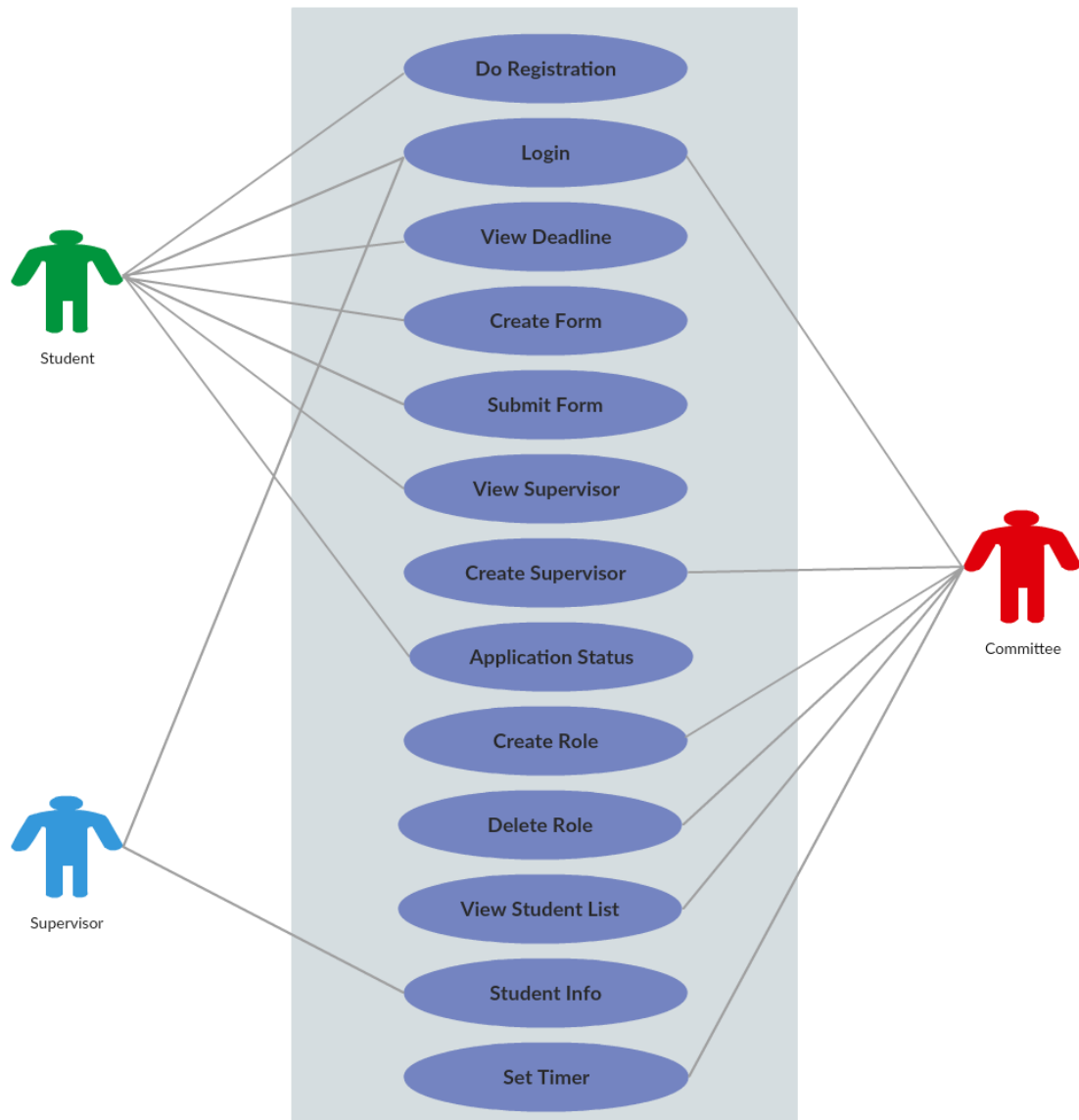


Figure 1: Use Case

In this model has three actors Admin, Student and supervisor. Admin can control the main processing of application acceptance. Only admin the power of creating a supervisor, role, set time, assigned supervisor. The student will allow registering, login, and after login they can apply for their thesis, they view the deadline date, their supervisor name and rules. Supervisor the third actor of the system will view the student's info who are under on his or her.

3.5.2 Data Flow Diagram (DFD)

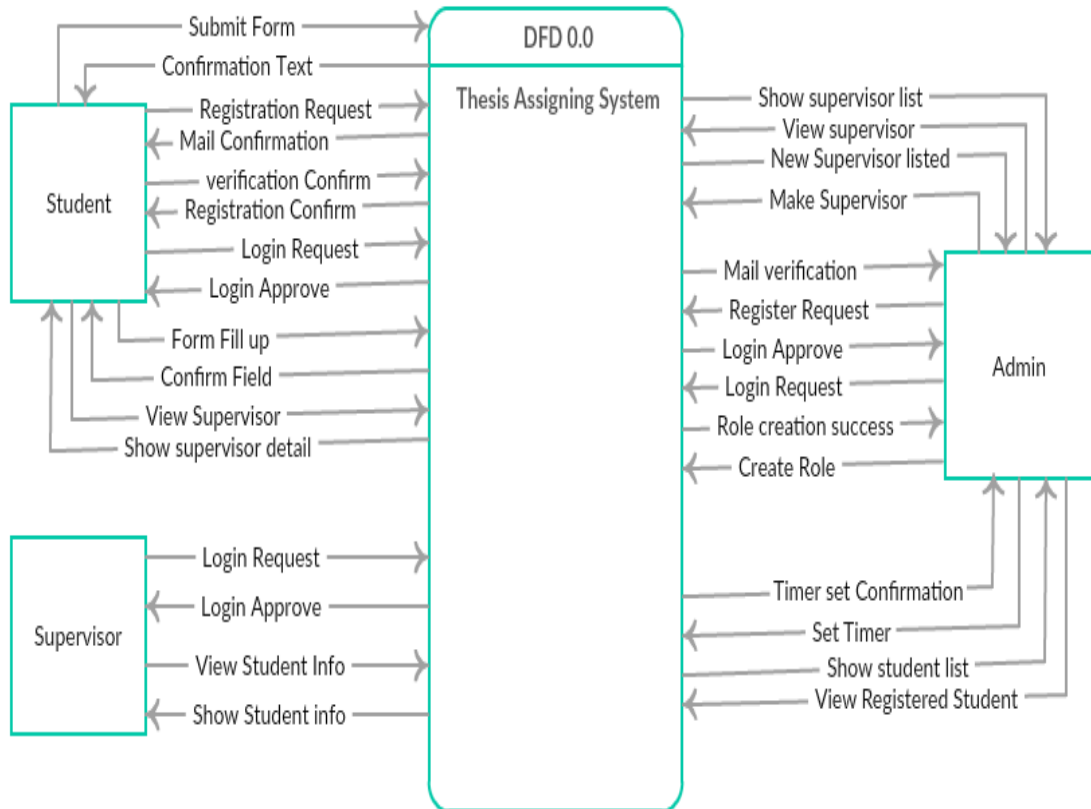


Figure 2: DFD

3.5.3 Entity Relationship Diagram(ERD)

Entity Relationship diagram of our project is given below:

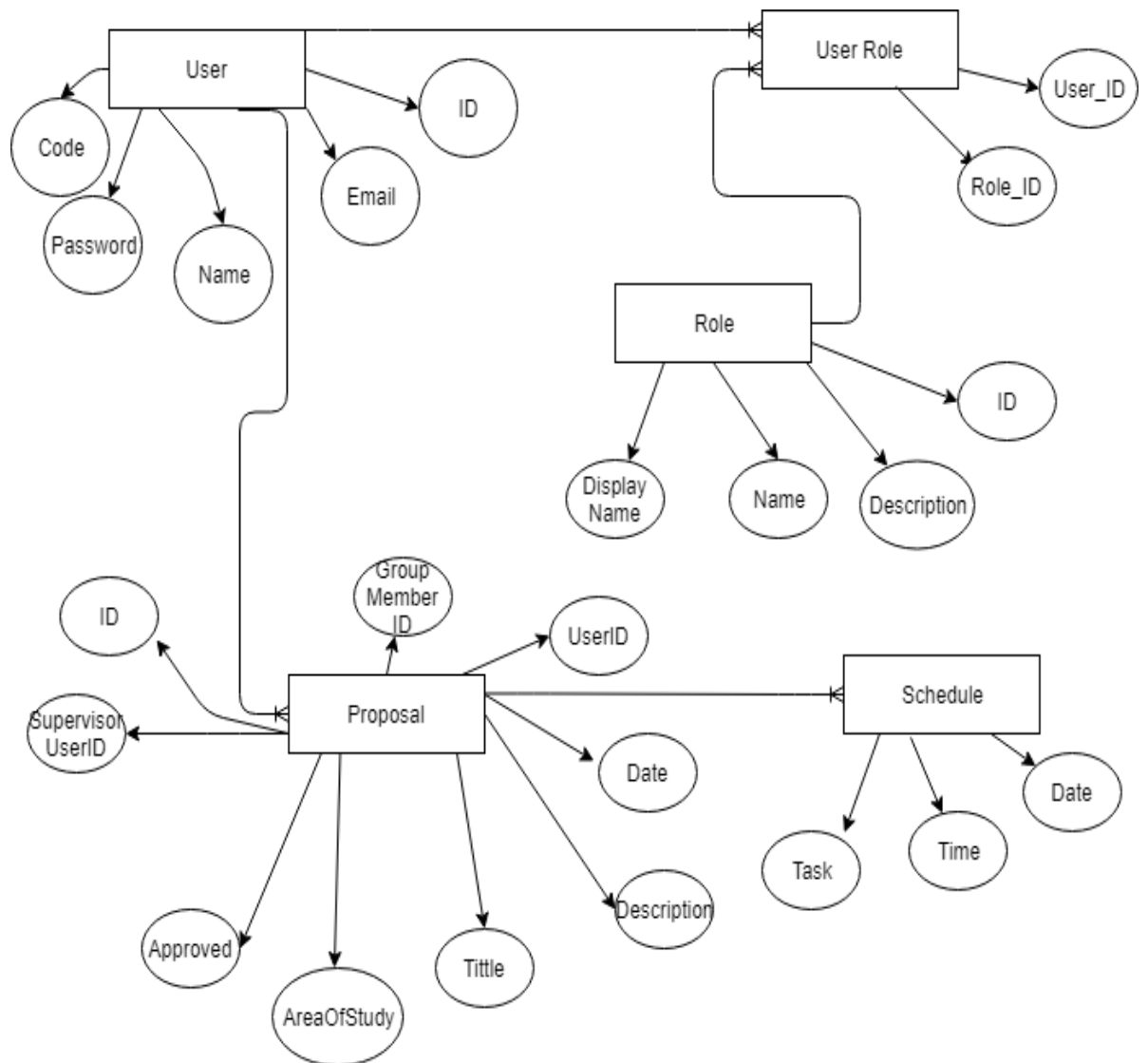


Figure 3: ER Diagram

3.5.4 Sequence Diagram

A sequence diagram is a diagram where interactions between classes are shown as parallel vertical lines and the process that lives simultaneously with horizontal line and exchange message.

Admin Perspective Sequence Diagram

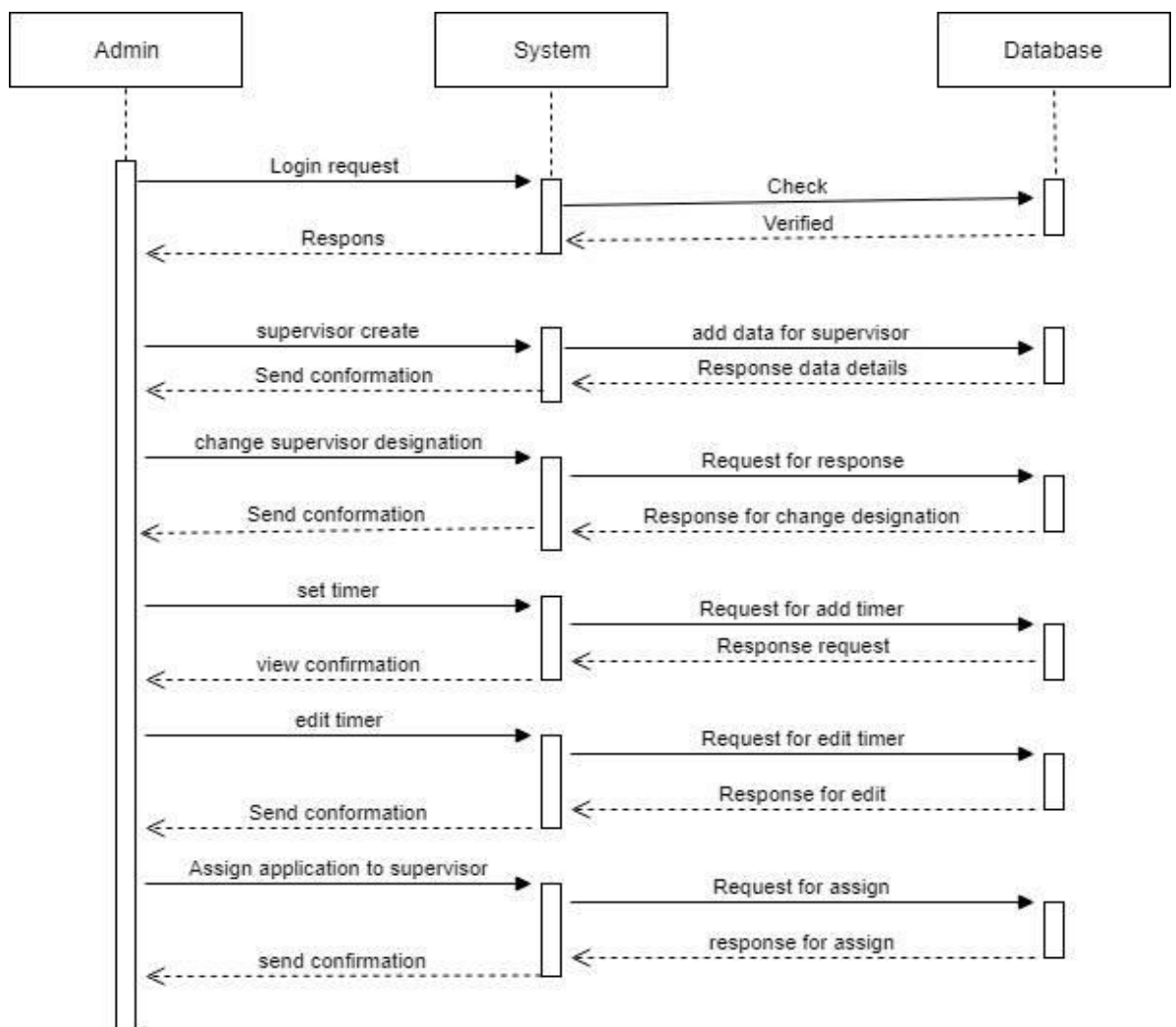
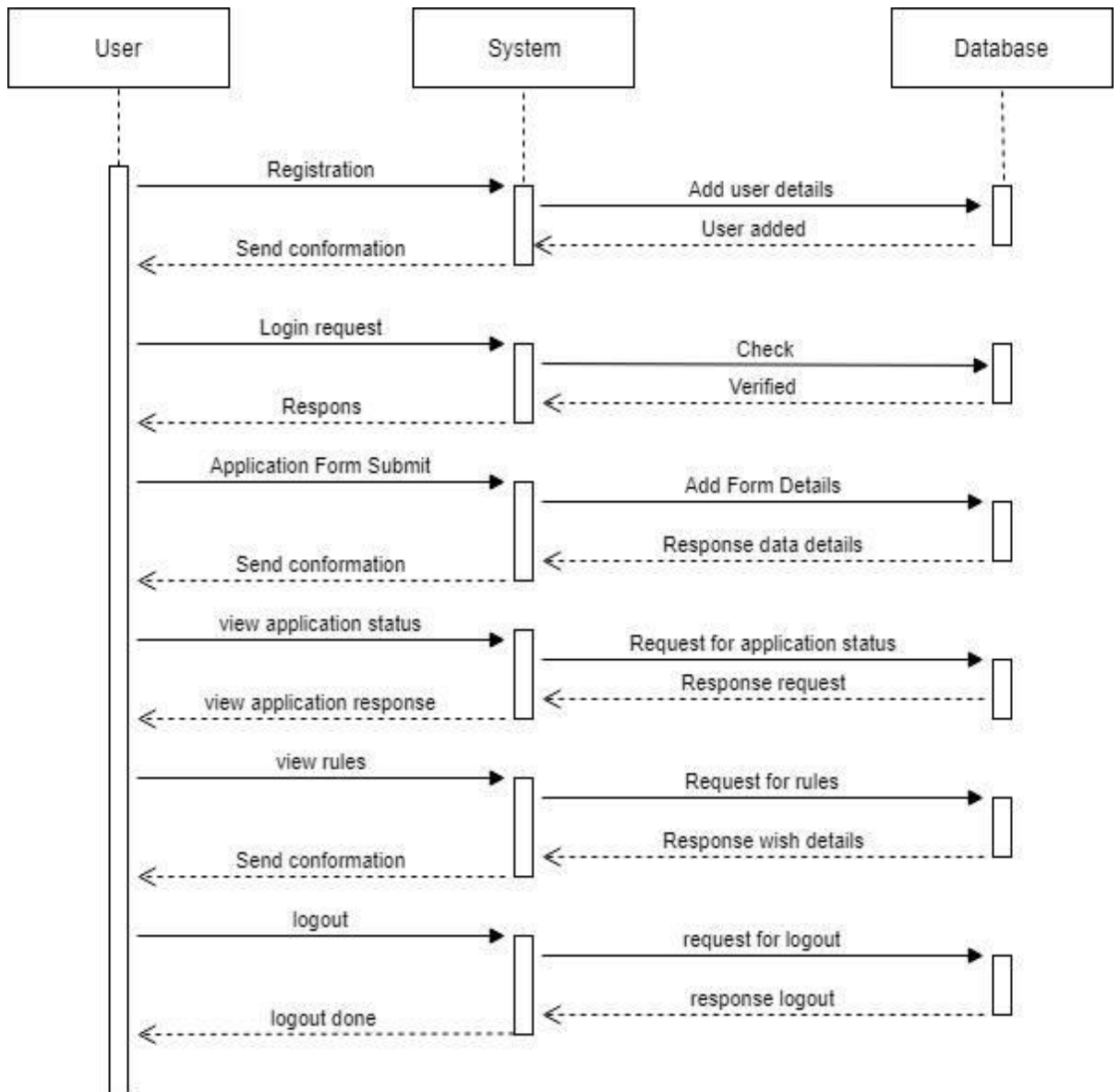


Figure 4: Sequence Diagram (admin)

User Perspective Sequence diagram



3.5.5 Activity Flowchart

Activity diagram is also an important diagram in UML. This diagram basically a flowchart which describe the flow from one activity to other activity.

Flowchart (Activity of Student)

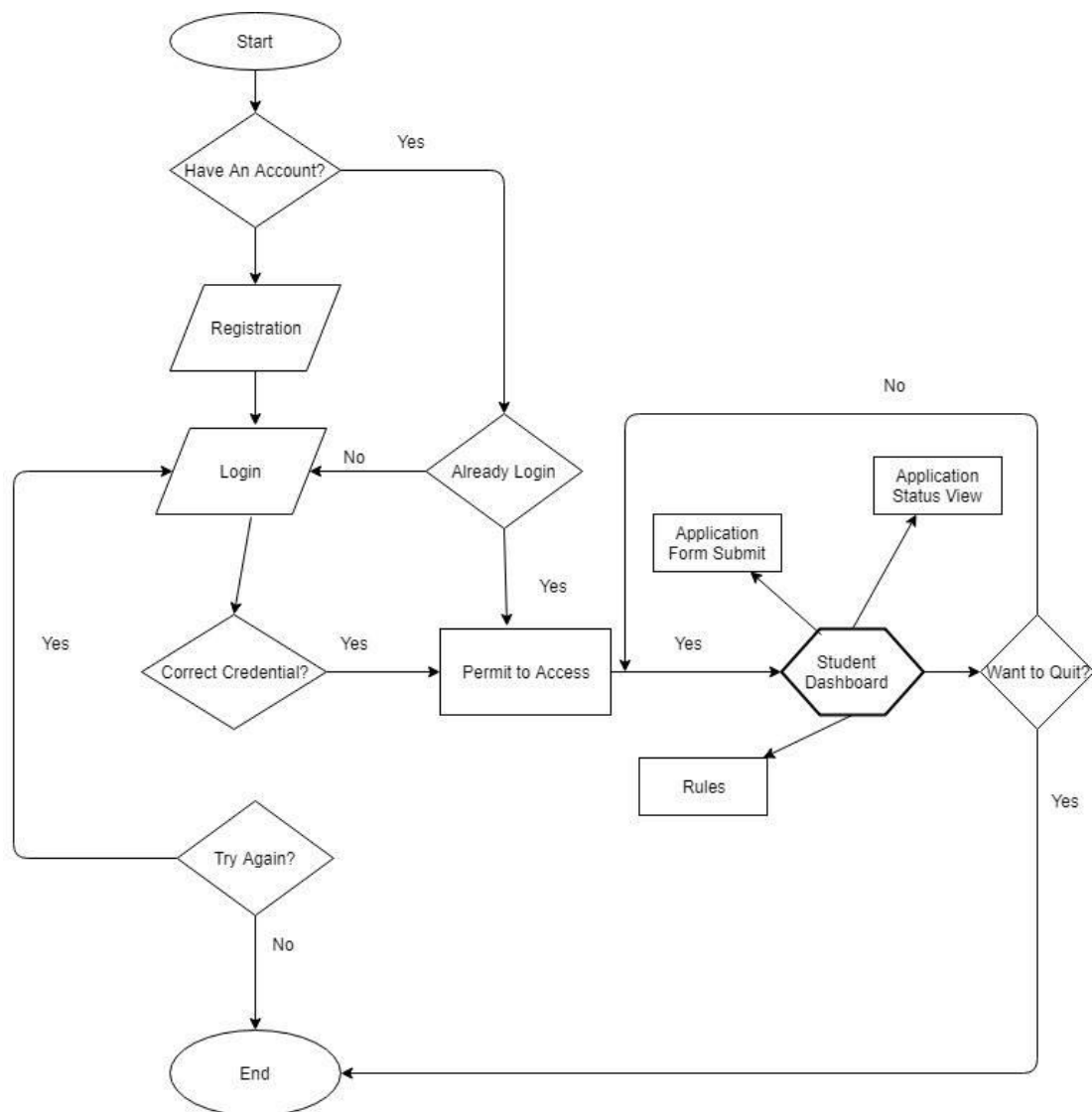


Figure 5: Activity Flowchart (student)

Flowchart (Activity of Admin)

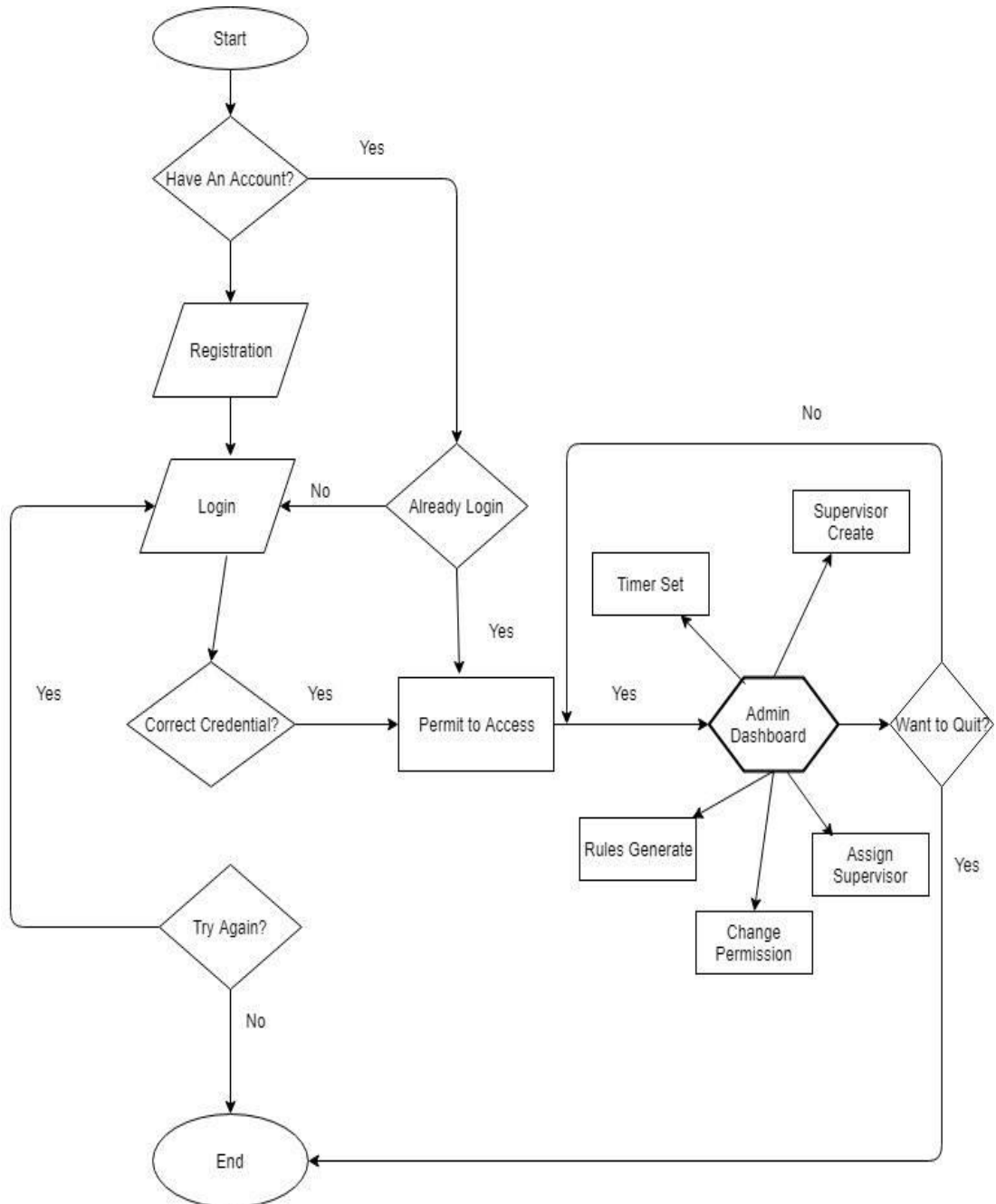


Figure 6: Activity Flowchart (admin)

CHAPTER-4 SYSTEM DESIGN SPECIFICATION

4.1 Software Language or Framework

Here, some Languages and frameworks are used for this project. Now, that is given below:

- PHP
- HTML5
- CSS3
- Java Script
- Zizaco Entrust
- JQuery
- Bootstrap
- Laravel PHP framework

4.2 Development Tools and Technology

4.2.1 User Interface Technology

Here, some Interface technologies are used for this project. Now, that is given below:

- CSS Framework and Bootstrap
- Laravel

4.2.2 Implementation Tools & Platforms

Here, some tools are used for this project. Now, that is given below:

- Sublime Text Editor 3
- Xampp Server

4.3 Release Requirements

- The first release version 1.0

CHAPTER-5 SOFTWARE OUTPUT SCREEN

Our system is an online based system. Here our system's screenshots are given below:

5.1 Home Page

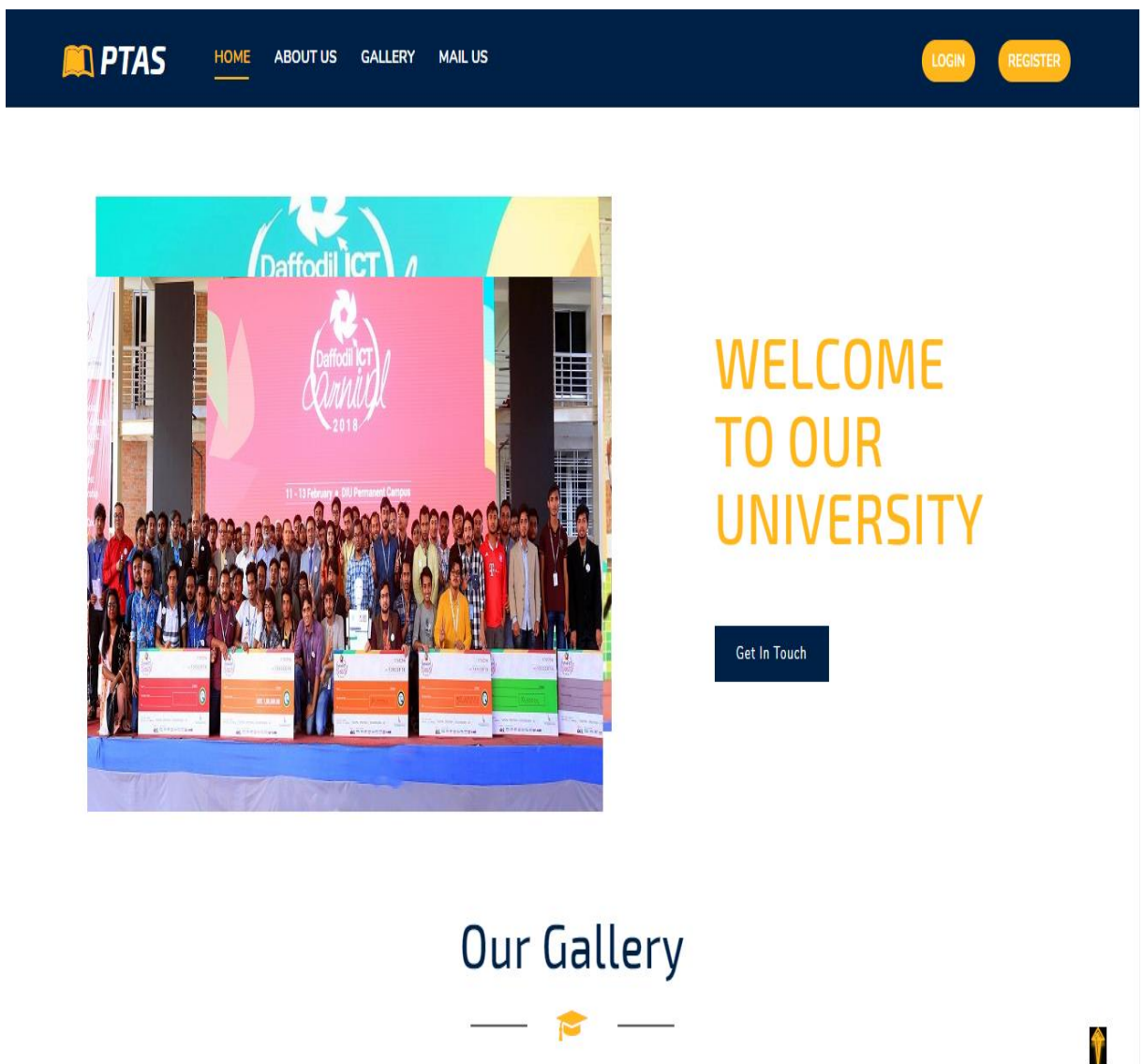


Figure 10: home page

5.2 Home Page Gallery

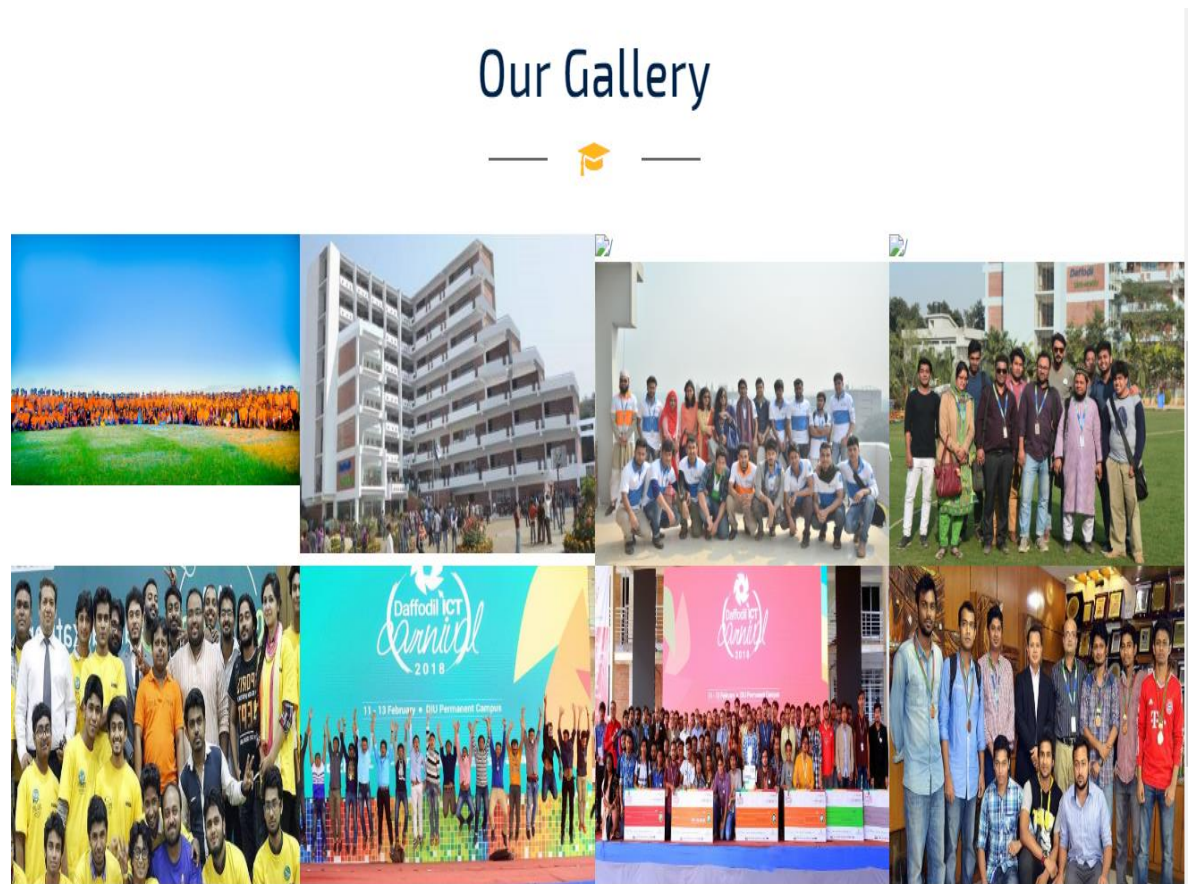
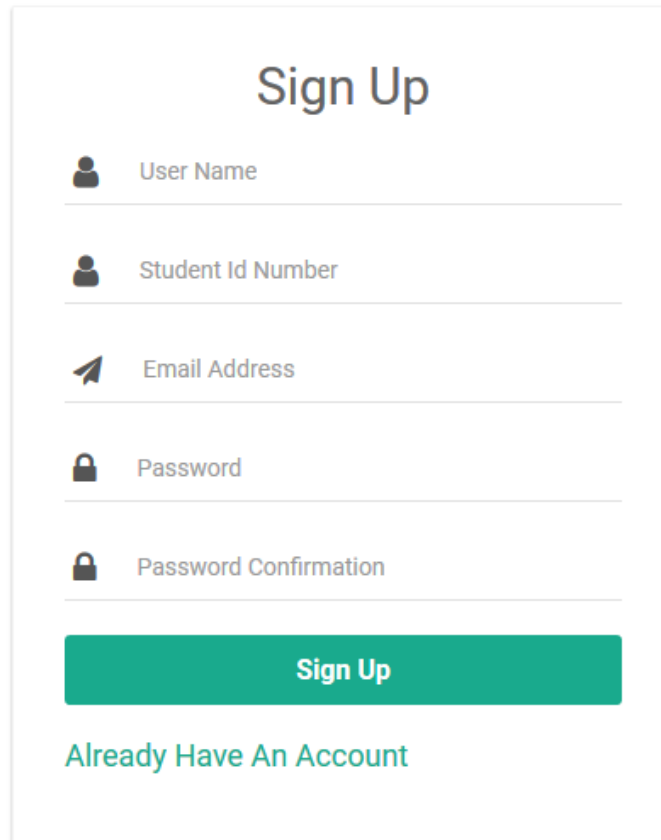


Figure 11: home page

This is the view of system's homepage. Here have the module of registration and login. User can visit our gallery. User can get knowledge about us and also get our mail address.

5.3 Registration Page

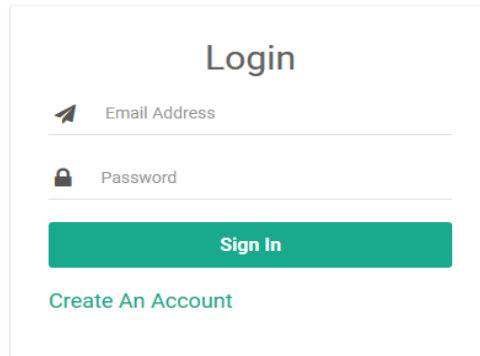


The registration page features a white background with a light gray border. At the top center, the text "Sign Up" is displayed in a large, bold, black font. Below this, there are five input fields, each with a small icon to its left and a horizontal line below it. The fields are: "User Name" (with a person icon), "Student Id Number" (with a person icon), "Email Address" (with an envelope icon), "Password" (with a lock icon), and "Password Confirmation" (with a lock icon). At the bottom of the form, there is a prominent green rectangular button with the text "Sign Up" in white. Below the button, the text "Already Have An Account" is written in a teal color.

Figure 12: Registration page

This is the registration page of the system. Unregistered user need to do registration to login the system like student. Or if user has there any existing account then they shall click on “Already Have an Account”.

5.4 Login Page



The image shows a login form with the following elements:

- Title:** Login
- Input Fields:** Email Address (with an envelope icon) and Password (with a lock icon).
- Buttons:** A green "Sign In" button and a "Create An Account" link below it.

Figure 13: Login Page

This is the Login page for all registered user. Registered user has to provide their valid email address and password to get login access to the system.

5.5 Student Home Page

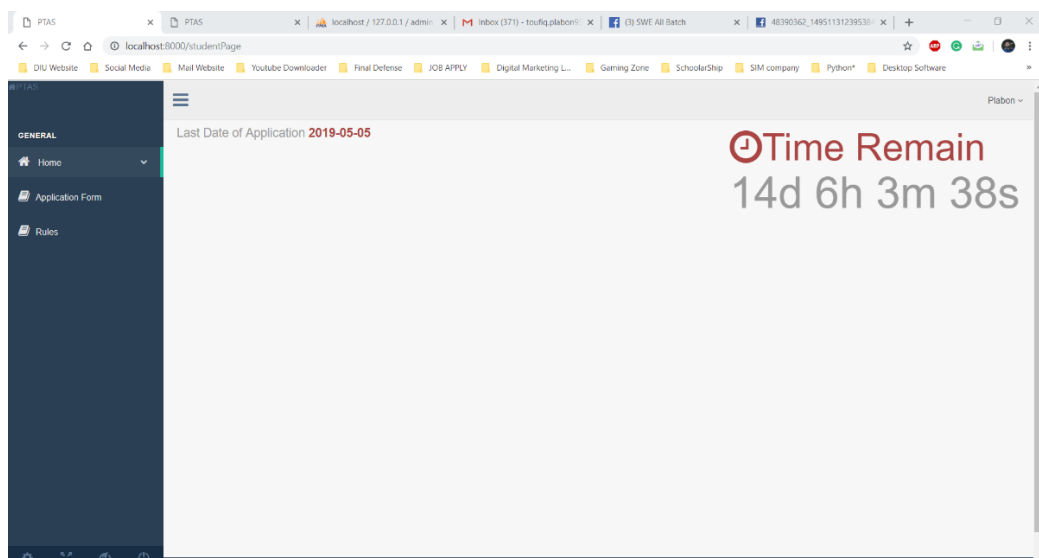
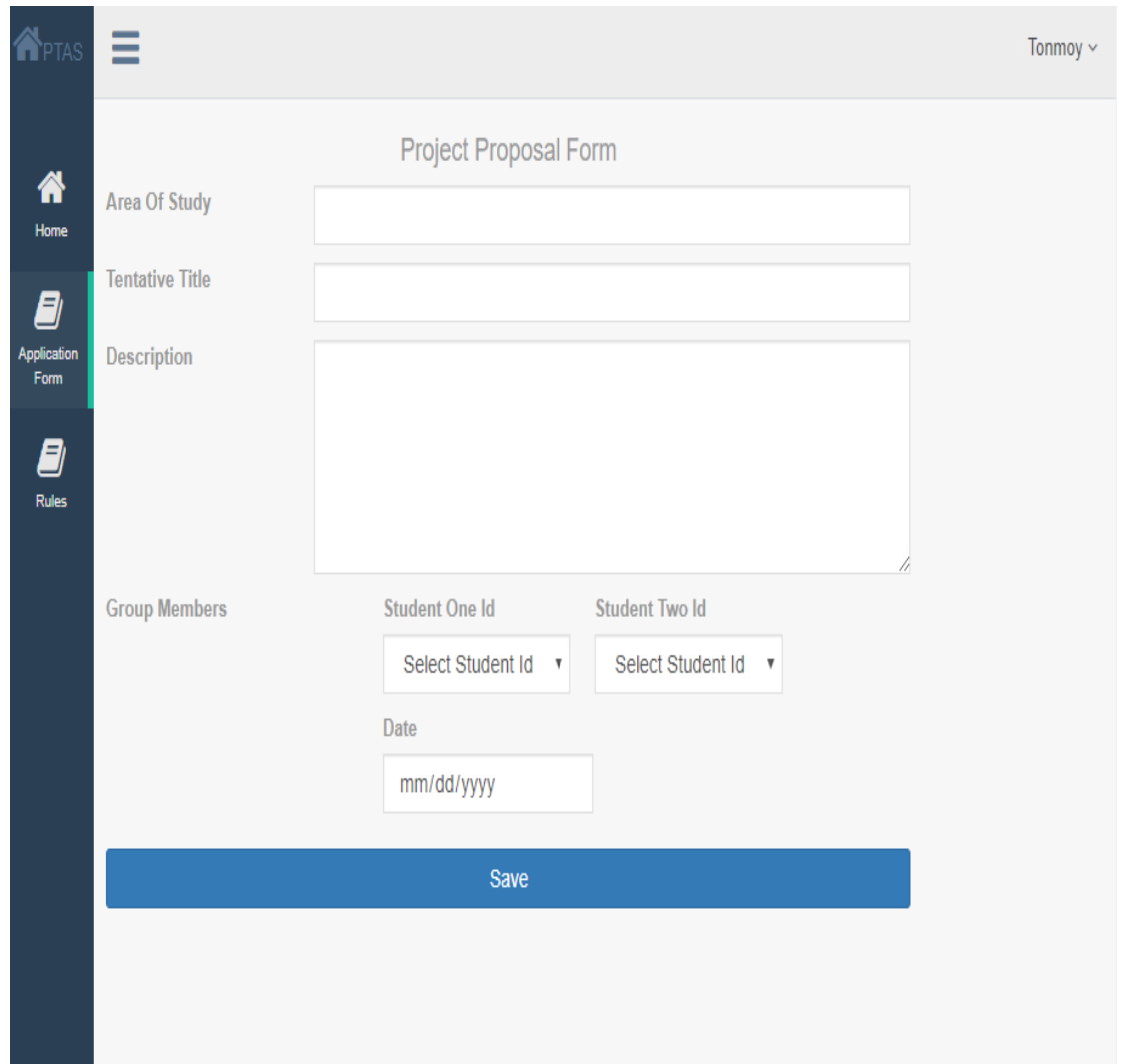


Figure 14: home page (student)

When a student login to the system he/ she can see the timer on their home page. That will alert student about the remaining time to submit the application.

5.6 Application Form



The screenshot displays a web application interface for a 'Project Proposal Form'. On the left, a dark blue sidebar contains navigation icons for 'Home', 'Application Form' (highlighted), and 'Rules'. The top right corner shows the user's name 'Tonmoy' with a dropdown arrow. The main content area is titled 'Project Proposal Form' and includes the following fields:

- Area Of Study:** A single-line text input field.
- Tentative Title:** A single-line text input field.
- Description:** A large multi-line text area.
- Group Members:** A section containing two dropdown menus labeled 'Student One Id' and 'Student Two Id', each with the placeholder text 'Select Student Id'.
- Date:** A text input field with a placeholder 'mm/dd/yyyy'.

A prominent blue 'Save' button is located at the bottom of the form.

Figure 15: Application form

Here is the application form. This online version of application form which we will have to fill and submit. Here student will fill the mandatory field and save to the software.

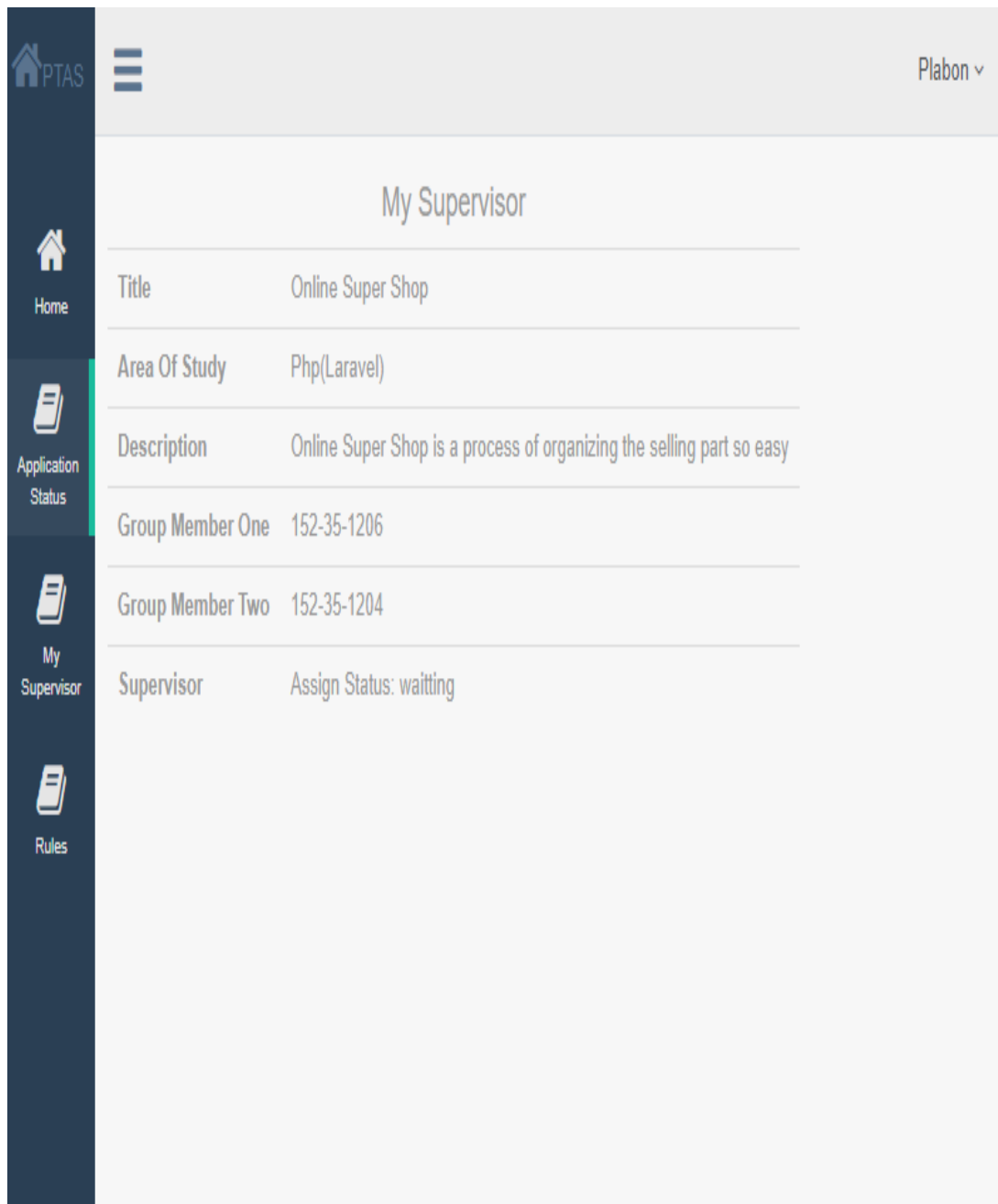
5.7 Rules

Tas Rules	
Serial	Rules
1	Student Can't Copy A Topics From Internet

Figure 16: Rules

There will provide some rules for students. These rules have to follow to do the final project or thesis. So it is mandatory for a student to maintain.

5.8 My Supervisor



The screenshot shows a web application interface. On the left is a dark blue sidebar with navigation icons and labels: Home, Application Status (highlighted with a green bar), My Supervisor, and Rules. The top header is light gray with a home icon, 'PTAS', a menu icon, and a user name 'Plabon' with a dropdown arrow. The main content area is titled 'My Supervisor' and contains a table with the following data:

My Supervisor	
Title	Online Super Shop
Area Of Study	Php(Laravel)
Description	Online Super Shop is a process of organizing the selling part so easy
Group Member One	152-35-1206
Group Member Two	152-35-1204
Supervisor	Assign Status: waitting

Figure 17: My Supervisor

When a supervisor is signed for a student, the student will see his supervisor's information in his “My supervisor” module.

5.9 Home Page Admin

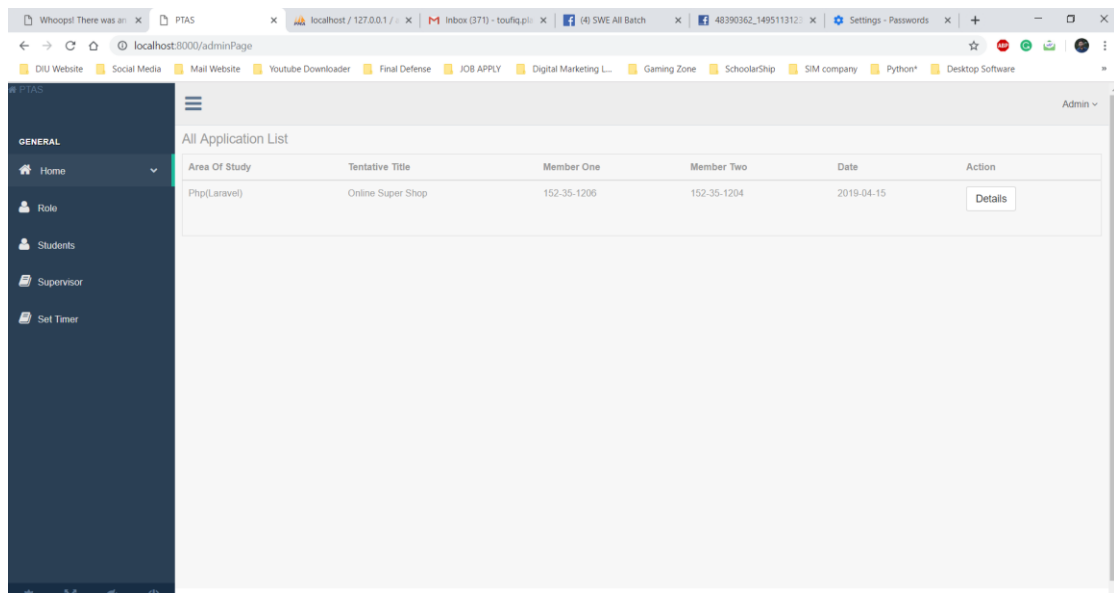


Figure 18: homepage (admin)

When admin will login to the system then will see the submitted application data. All list of application with details will view here so that admin can assign the supervisor against an application.

5.10 Set Timer

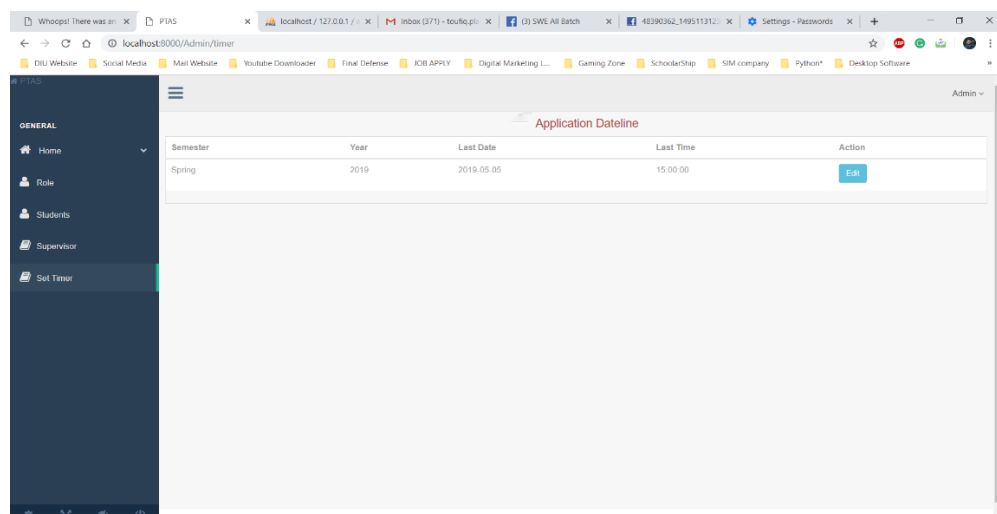


Figure 19: Set timer

This module is only for administration. Only exam committee will define the last date of submission. Committee members also able to update the submission date.

5.11 Supervisors

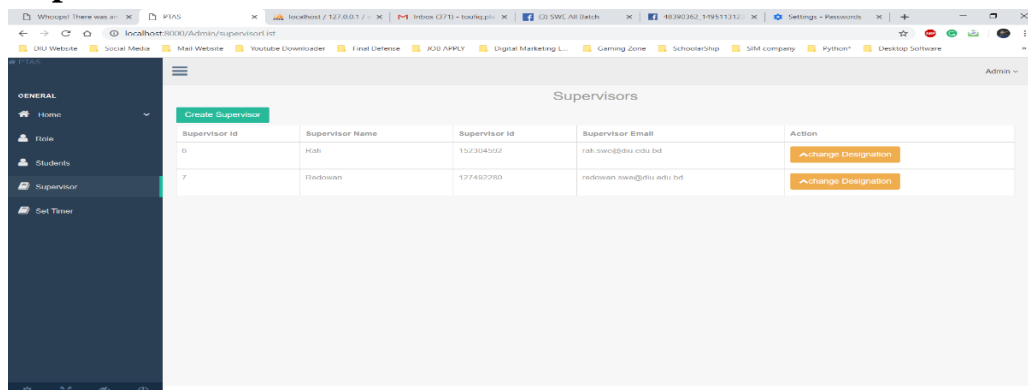


Figure 20: Supervisor

Admin will create the supervisor. Admin also can change the supervisor designation. By changing the designation, a supervisor will get the role of admin. Because sometimes an admin leads a supervisor's role also.

5.12 Assign Supervisor

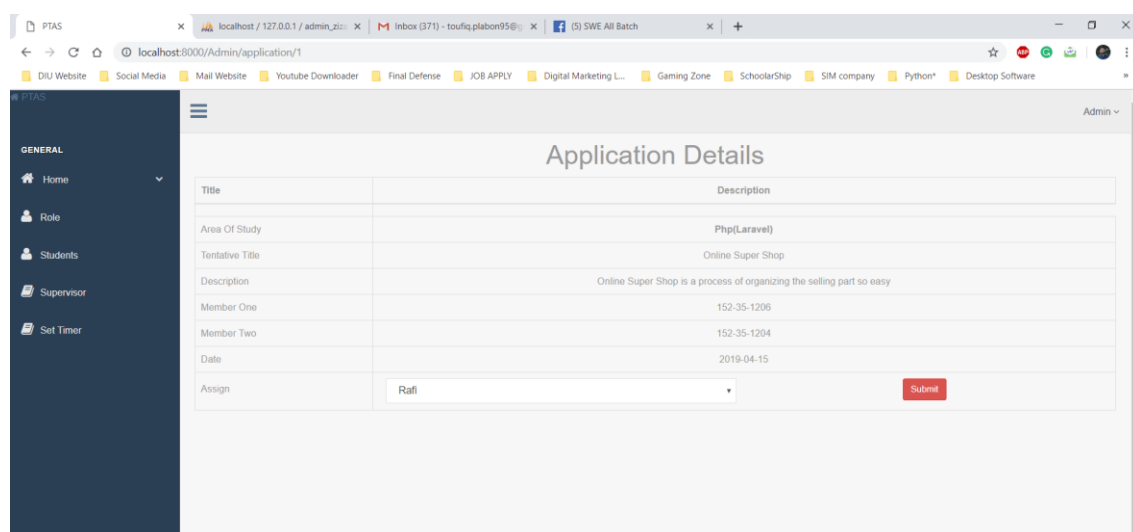
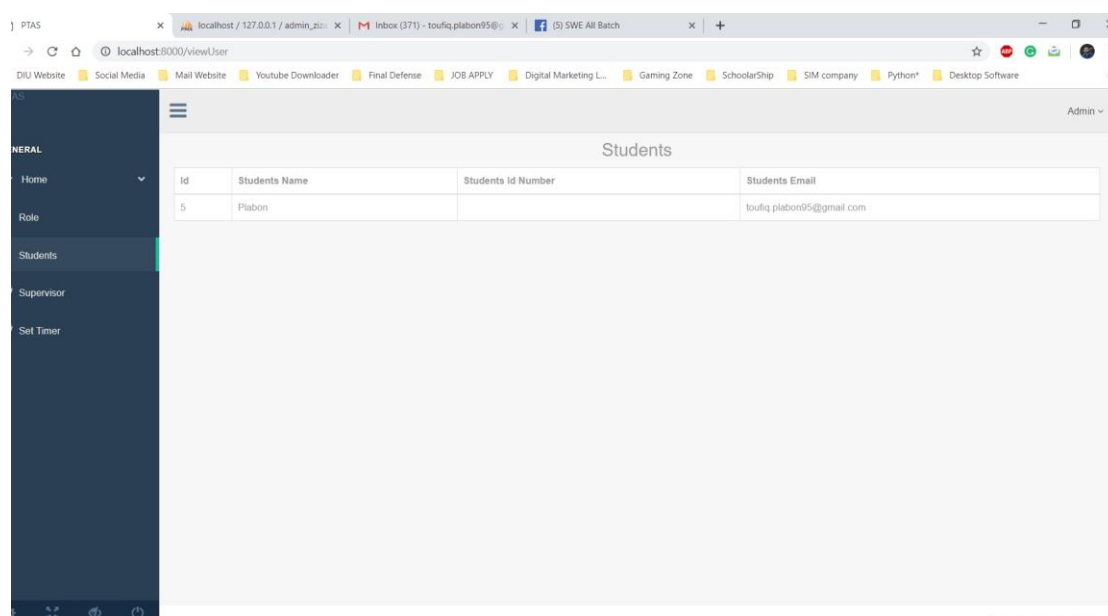


Figure 1: Assign Supervisor

Here against an application form a supervisor will assign by admin. In application details admin will see the topic and idea about a project or thesis and based on this they will assign a supervisor for the team.

5.13 Student list



Id	Students Name	Students Id Number	Students Email
5	Plabon		toufiq.plabon95@gmail.com

Figure 22: All Registered Student

Students who get registered to the system admin will able to see their list. All data will show from database.

CHAPTER-6 TESTING

6.1 Importance of Testing

- Testing finds errors on our application program.
- It is used for both validation and verification to develop a product.
- It is used for effective error identification.
- It makes sure customer reliability and satisfaction.
- Make sure quality of our application.
- Make sure great performance of our application.
- Required to stay in software business.

6.2 Testing Parts

- Registration
- Login
- From Create
- From Submit
- Supervisor Create
- Supervisor Assign

6.3 Testing Environment

- Requirement
- Test data
- Web application
- Database server
- Operating system(OS)
- Browser

6.4 Test Cases

Feature Name	Test Case ID	Summary	Precondition	Execution Steps	Expected Result	Actual Result	Priority
Login	DBS_01	Verify that application should be login by verified users.	The user must have permission to operate the function	1.click on login button 2.with successful login go to next steps(student portal, Admin portal, Supervisor portal)	The user should be login Successfully	pass	High
Application form	DBS_02	Required fill can't be empty	The user must have permission to operate the function	1.click on the button. 2.fill up all required steps.	The application should be execute successfully.	Pass	high
Submit application	DBS_03	Verify that required fill aren't empty	The user must have permission to operate the function	1.open the application 2. will show up a confirmation message.	The application should be execute successfully.	pass	high
Add supervisor	DBS_04	Have to do add supervisor	The user must have permission to operate the function	By registering, the supervisor must be added.	The application should be execute successfully	Pass	high
Assign supervisor	DBS_05	Assign supervisor for individual students	The user must have permission to operate the function	1.Click the application form. 2. To the all registered students will give a registered supervisor.	The user should be execute successful	pass	high
Create new role	DBS_06	Verify that allow admin to create a new roll	The user must have permission to operate the function	1.Click the button. 2.To create a new roll.	The application should be execute successfully	pass	medium
logout	DBS_07	Verify that user should be able to log out from the system	The user must have permission to operate the function	1.click on logout button 2.the application will give an alert of logout	User should be able to logout successfully	pass	high

Table 1: Test Case

CHAPTER-7 CONCLUSION AND FUTURE SCOPE

7.1 Discussion and Conclusion

I think it will be the new feature for Daffodil International University, and I hope it will be helpful for its main purpose. Student committee and supervisor will be benefited using this site. I am already described all the feature and procedures that were followed while developing the application. This document specially mentions the details of the project, how it was developed, the primary requirement, as well as various features and functionalities of the project and the procedures followed in achieving these objectives.

I have encouraged to develop this type of application because most of the time the committee pass a hard time due to accepting a late submission. For committee, it also hard to handle the hard copies of application sometimes one I be lost. Even for students, it becomes complex to come physically due to some problem and get committee members schedule. Our student need to come again to know their supervisor name. if this project executes successfully then all task can have done online.

7.2 Future Scope

The system has been developed with future development possibilities

- Student supervisor online counseling.
- Monitoring task.
- Give new task.
- Counseling/ meeting time generate.

REFERENCE

- ❖ <https://github.com/Zizaco/entrust/issues>
- ❖ <https://www.mysql.com/>
- ❖ <https://creately.com/>
- ❖ <http://getbootstrap.com/>
- ❖ www.sciencedirect.com