Daffodil International University

Improvement Examination Maintenance System

Submitted By:

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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 "**Improvement Examination Maintenance System**", submitted by **Muttasim Billah Masum**, ID: **152-35-1281** 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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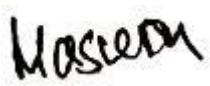
DECLARATION

I hereby declare that I have taken this project under the supervision of **Md Shohel Arman, Lecturer, Department of Software Engineering, Daffodil International University.** I also declare that this project doesn't have been submitted elsewhere for award of any degree.



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Acknowledgment

At first i would like to thank almighty Allah. However, i have taken efforts in this project. It would not have been possible without the kind support and help of many persons. I would like to extend my sincere thanks to all of them.

I am really grateful because i managed to complete my project within the time given by Project/Thesis Committee. I also sincerely thank our respected 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.

Finally, I would like to thank my parents for keeping me in their prayers and supporting me to be better at every step of the away. Without their love and support i would not be successful.

To sum up, without the help of the mentioned supports, the project would not be possible.

Dedication

I dedicate this project to my respectable Father and Mother, my supervisor, my Honorable teachers who are always dear and near to me. Without their patience, understanding, unsparing support, care, affection and love it was not possible to come up to this place.

Abstract

Improvement Examination Maintenance System is an online system where students can apply for Improvement or make-up Examination online. This project is intended to make the improvement and overlap exam management system easier to the teacher and the student. A huge number of students from various semesters needs to improve their result in various subjects by improvement exam and some of them are victim of exam overlap. The total processes of managing those exams are manual and time consuming. In which the student and also the teacher suffers long. So an online system is badly needed. In this system students can place their application through online by some clicks. Teachers and the authority can manage the student's application and complete validation process through this system. The specific course teacher can check if there is any candidate of his/her course. The authority can also publish the schedule of improvement exam using some process.

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Chapter 1

Introduction

Improvement / make-up Examination Maintenance System is intended to make the improvement and overlap exam maintenance system easier to the teacher and the student. Students have to login to the portal. Also teachers have to login to the portal. Students after login, decide to apply for improvement / make-up examination. Then student can fill up their application form. After fill up the application form teacher can check the Applicant list. After check the applicant list, teachers can view by Course and view by Course teacher name. Teachers can manage the student's application and complete validation process through this system. Teacher send the validate applicant list to authority. The authority can also publish the schedule of improvement or overlap exam at student portal.

1.1 Project Overview:

A huge number of students from various semesters need to improve their result in various subjects by improvement exam. Some of students are victim of make-up examination. Then student decide to apply for improvement / make-up examination. For applying students have to login to the portal. Also teachers have to login to the portal. Then student can fill up their application form. After fill up the application form teacher can check the Applicant list. The specific course teacher can check if there is any candidate of his/her course. Teachers can manage the student's application and complete validation process through this system. Teacher send the validate applicant list to authority. The authority can also publish the schedule of improvement or overlap exam at Diu notice board.

1.2 Project Purpose:

This project is intended to make the improvement and overlap exam maintenance system easier to the teacher and the student. This type of system does not exist in our university currently. Hopefully this online system will decrease the complexity of those improvements or overlap examination process.

1.2.1 Background:

Technical Perspective: We have been working in a real life project using PHP and MySQL Database.

Domain Perspective: i have tried to do something new like Improvement / make-up Examination Maintenance System. This type of system does not exist in our university currently.

1.2.2 Benefits:

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

- Students can place their application through online by some clicks.
- Teachers can manage the student's application.
- Teachers can complete validation process through this system.
- Specific course teacher can check if there is any candidate of his/her course.

1.2.3 Goals:

The main goals of this project is to-

- Making a User friendly and easy interface website.
- Decrease the complexity of those improvements or overlap examination process using this online system.
- Reduce the complexity of Exam committee.

1.3 Stakeholders:

The main stakeholder's are-

- Developer
- Teacher
- Student

1.4 Project Schedule:

1.4.1 Gantt Chart:

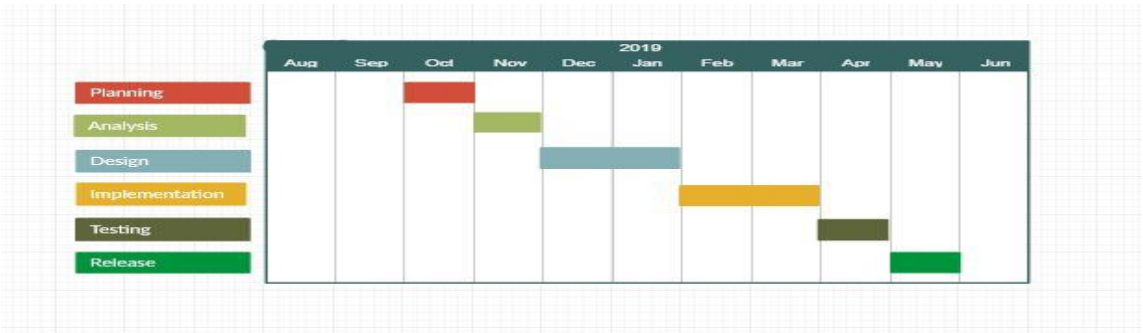


Figure 1.1: Gantt chart for Improvement Examination Maintenance System

1.4.2 Milestone:

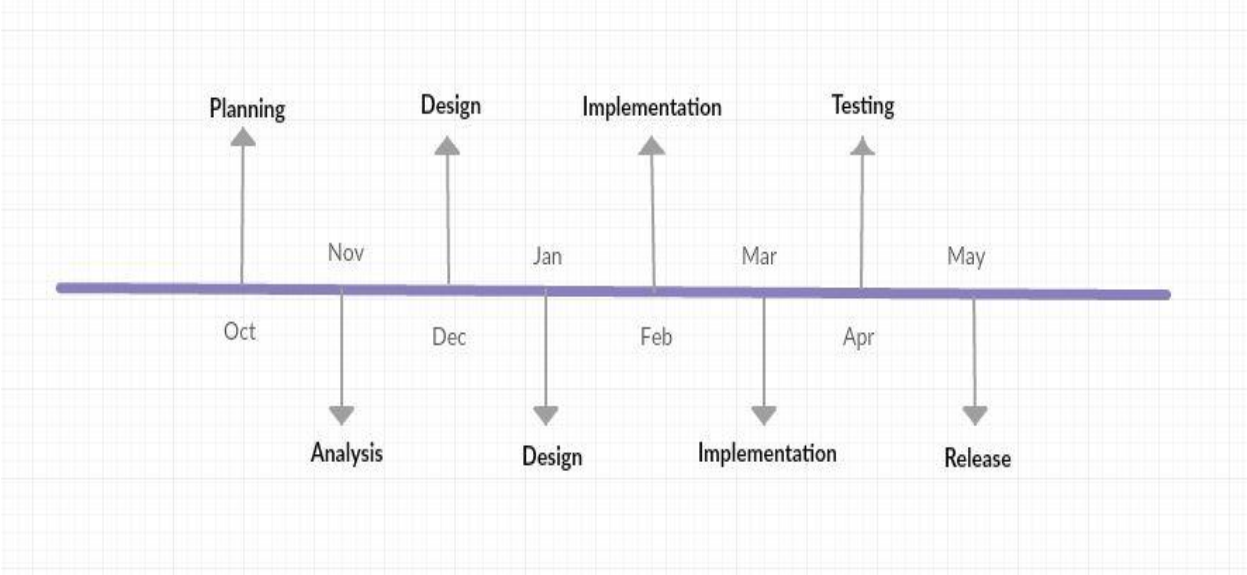


Figure 1.2: Milestone for Improvement Examination Maintenance System

Chapter 2

Software Requirement Specification:

All requirement specification described in this section based on this project.

2.1 Functional Requirements:

FR-01	**Student Registration**
Description	Without register student in this system he/she will only be able to see the website. To apply for examination the student must need to register in this system. This module will help the student to register in this system.
Stakeholders	Student

FR-02	**Apply Examination**
Description	Only registered student can apply the Improvement or make-up examination .This module will help the student to apply for Improvement or make-up examination
Stakeholders	Student

FR-03	**Teacher Registration**
Description	Without register Teacher in this system he/she will only be able to see the website. To manage the student application the teacher must need to register in this system. This module will help the teacher to register in this system.
Stakeholders	Teacher

FR-04	**Manage Student Application**
Description	Only registered teacher can manage the student's application and complete validation process through this system.
Stakeholders	Teacher

FR-05	Feedback
Description	Teacher can manage the student's application and complete validation process through this system .Then teacher can also publish the schedule of improvement or overlap exam at student portal.
Stakeholders	Teacher

2.2 Data Requirements:

2.3 Performance Requirements:

2.3.1 Speed and Latency Requirements:

This system required a fair speed especially when a student can apply for improvement or overlap Examination and teacher can manage the student's application.

PR-01	Page Refresh Rate
Description	While the teachers and students browsing this system the page will show within a moment. It also depends on teachers and students internet connection.
Stakeholders	Student, Teacher

2.3.2 Accuracy Requirements:

There are nothing specific accuracy requirements.

2.3.3 Capacity Requirements:

The system is able to manage all the information Students, Teachers and Applications.

PR-02	At first the system will contain all the registered teacher and student information
Description	The information of registered teacher and student will be stored in database.
Stakeholders	Student, Teacher

PR-03	The system will contain all the Applicant information.
Description	The Applicant information will be stored in database.
Stakeholders	Student

2.4 Dependability Requirements:

2.4.1 Reliability Requirements:

This is an examination maintenance related project that's why it will be very sensitive for teacher and student. The main goal of our project, it decreases the complexity of those improvement or overlap examination process. In this way i will be able to achieve the reliability of users.

2.4.2 Availability Requirements:

Availability is more necessary for this project.

DR-01	Must be available the system at 24x7
Description	• Must be available the system at 24 hours in a day. • Must be updated the system regularly.
Stakeholders	Student, teacher, System Developer

2.4.3 Robustness and Fault Tolerance Requirements:

DR-02	The system manages over access.
Description	Sometimes multiple users can over access to this system. The system can handle multiple user access. The system has almost ensured 0% crush.
Stakeholders	N/A

2.4.4 Safety Critical Requirements:

There are no specific safety critical requirements.

2.5 Maintainability and Supportability

2.5.1 Maintenance Requirements

MS-01	The system can support to browse this site in any time.
Description	Student can access the site and apply to improve or make-up examination any time. Teacher can manage the student's application and complete validation process through this system.
Stakeholders	Teacher, Student

2.5.2 Supportability Requirements

There are no specific supportability requirements.

2.5.3 Adaptability Requirements

There are no specific adaptability requirements.

2.6 Security Requirements

This system has some security requirements. Like-

- Username/Password
- Validation
- Authentication

2.6.1 Access Requirements

To get access the all module the system provide validation and authentication process.

SR-01	This system gives security policy.
Description	Without register student and teacher in this system he/she will be not able to access the website. This mechanism provides security services.
Stakeholders	Teacher, Student

2.6.2 Integrity Requirements

To protect data all username and password are stored in encrypted form. It's not easy to decrypt the username and password.

2.6.3 Privacy Requirements

This system has some privacy strategies. Like- Validation and Authentication. All data are stored in database. All username and password are stored in encrypted form. It's hard to decrypt. This mechanism provides users privacy.

SR-02	All data will be protected
Description	All data are protected. All data are stored in database using encrypted form. It's not easy to decrypt.
Stakeholders	Teacher, Student

2.7 Usability and Human Integrity Requirements

2.7.1 Ease of Use Requirements

This system is very easy for use and also understandable.

2.7.2 Understand-ability and Politeness Requirements

This system is very easy for understand and also usable.

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 Student
AR-2: Log in as a Teacher
AR-3: Log out as a Student
AR-4: Log out as a Teacher

Chapter 3

Scope of the Study

3.1 use Case Diagram:

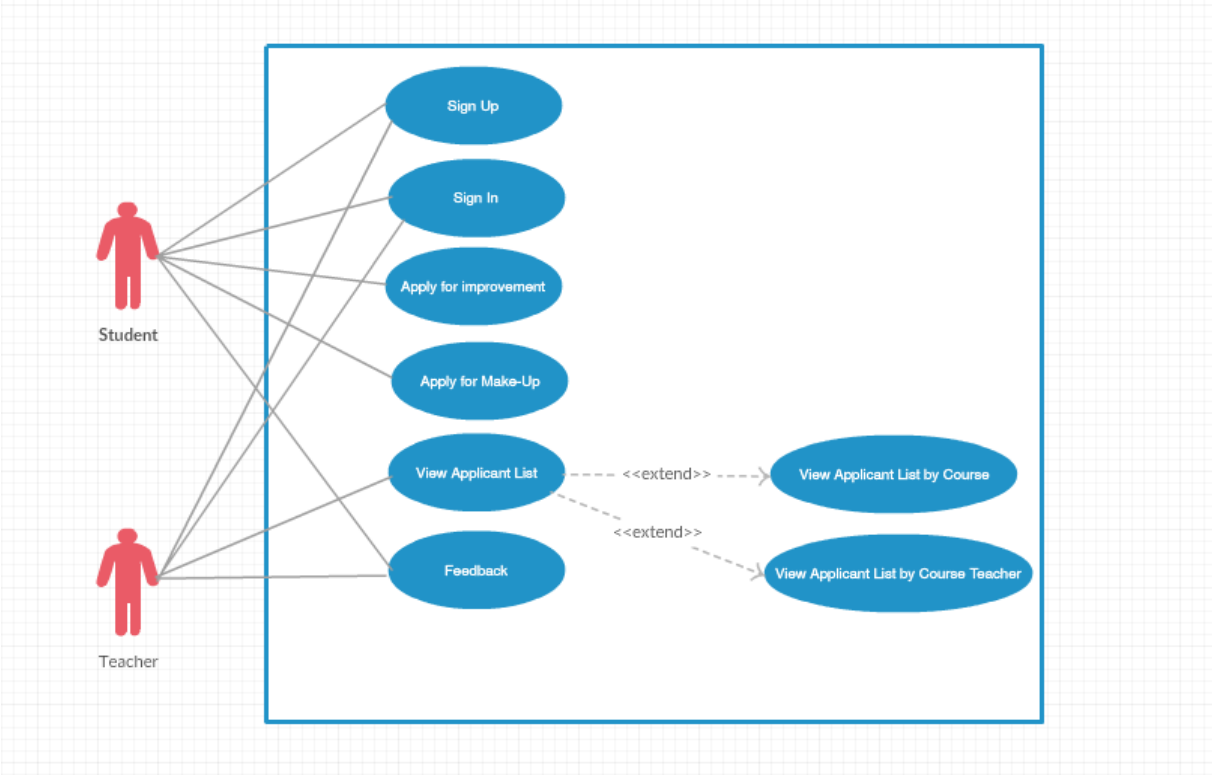


Figure 3.1: Use case Diagram for Improvement Examination Maintenance System

3.2 Use case Description:

Use Case-01	Sign Up
Goal	Student Sign Up is important for accessing the site for apply Improvement or make-up examination. Teacher Sign Up is important for accessing the site for access the applicant list.
Preconditions	N/A
Success End Condition	Registered successfully and access the system.
Failed End Condition	Can't enter into the system.

Actors	Teacher Student	
Trigger	Sign up to the system.	
Description	**Step**	**Action**
	1	Push Sign Up Button
	1.1 1.2 1.3	Put Username Put teacher ID / Student ID Put Password
	2	Push Registration Button
Alternative Flows	N/A	
Quality Requirements	Don't provide the teacher ID / Student ID and password to others.	

Use Case-02	Sign In	
Goal	Student Sign in is important for accessing the site for apply Improvement or make-up examination. Teacher Sign In is important for accessing the site for access the applicant list.	
Preconditions	Need to Sign Up and put the accurate teacher ID / Student ID and password.	
Success End Condition	Come into the system and access the system all feature.	
Failed End Condition	Student Can't Apply Improvement or make-up examination and teacher Can't access the applicant list.	
Actors	Student ,Teacher	
Trigger	Sign In to the system.	
Description	**Step**	**Action**
	1	Sign Up to the system
	1.1 1.2	Put teacher ID / Student ID Put Password
	2	Give correct teacher ID / Student ID and password for sign In.
	3	Push Sign In Button.
Alternative Flows	N/A	

Quality Requirements	Don’t provide the teacher ID / Student ID and password to others.

Use Case-03	Apply For Improvement / Make-up	
Goal	Student Can Apply for Improvement or make-up examination.	
Preconditions	Need to Sign In and put the accurate Student ID and password.	
Success End Condition	Student can Apply in exam successfully.	
Failed End Condition	Student Can’t Apply Improvement or make-up examination	
Actors	Student	
Trigger	Sign In to the system.	
Description	**Step**	**Action**
	1	Sign Up As a Student
	2	Push Application form
	2.1 2.2 2.3 2.4 2.5 2.6	Put Full name Put Student ID Put Semester Put Name of Exam Put a valid reason Put exam info
	2.6.1 2.6.2 2.6.3 2.6.4	Course Code Course title Credit Instructor's Initial
	3	Push submit Button
Alternative Flows	N/A	
Quality Requirements	Properly Fill Up Application form.	

Use Case-04	View Applicant list	
Goal	Teacher Can View applicant list.	
Preconditions	Need to Sign Up and put the accurate teacher ID / Student ID and password.	
Success End Condition	Teachers can view applicant list by course code/name. Teachers can view applicant list by course Teachers name.	
Failed End Condition	Teachers Can't view applicant list.	
Actors	Teacher	
Trigger	Sign In to the system.	
Description	1	Sign Up As a Teacher
	2	Push Applicant List Button
	3.1	Put view by course
	3.2	Put view by course teacher
Alternative Flows	N/A	

3.3 Activity Diagram:

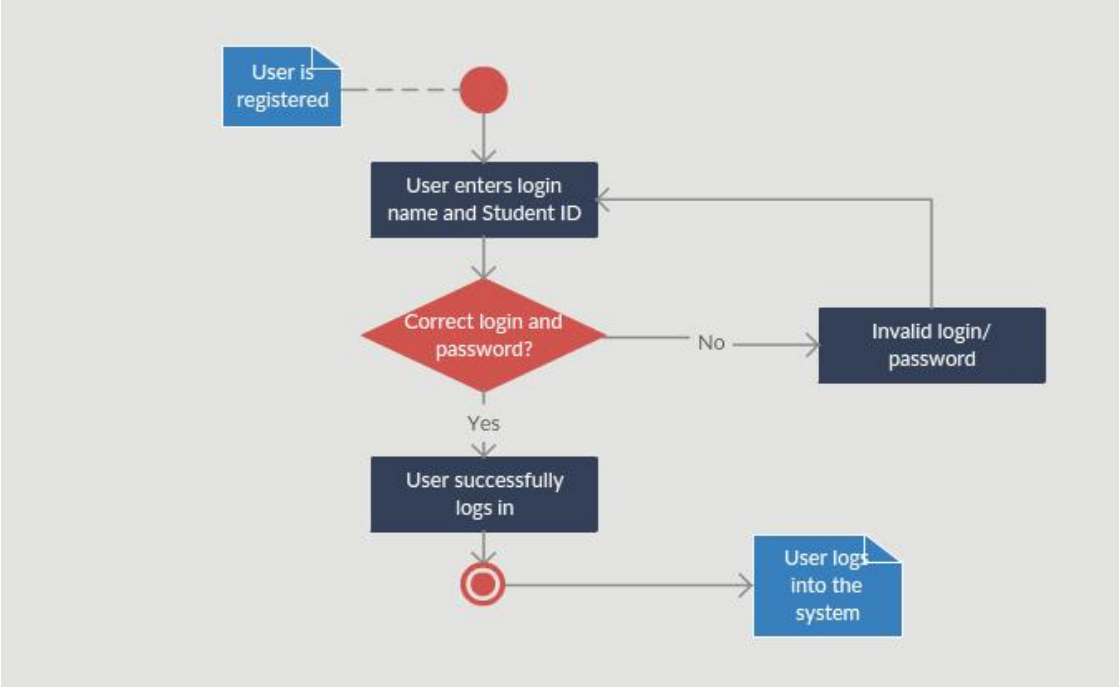


Figure 3.2: Activity diagram for Sign In

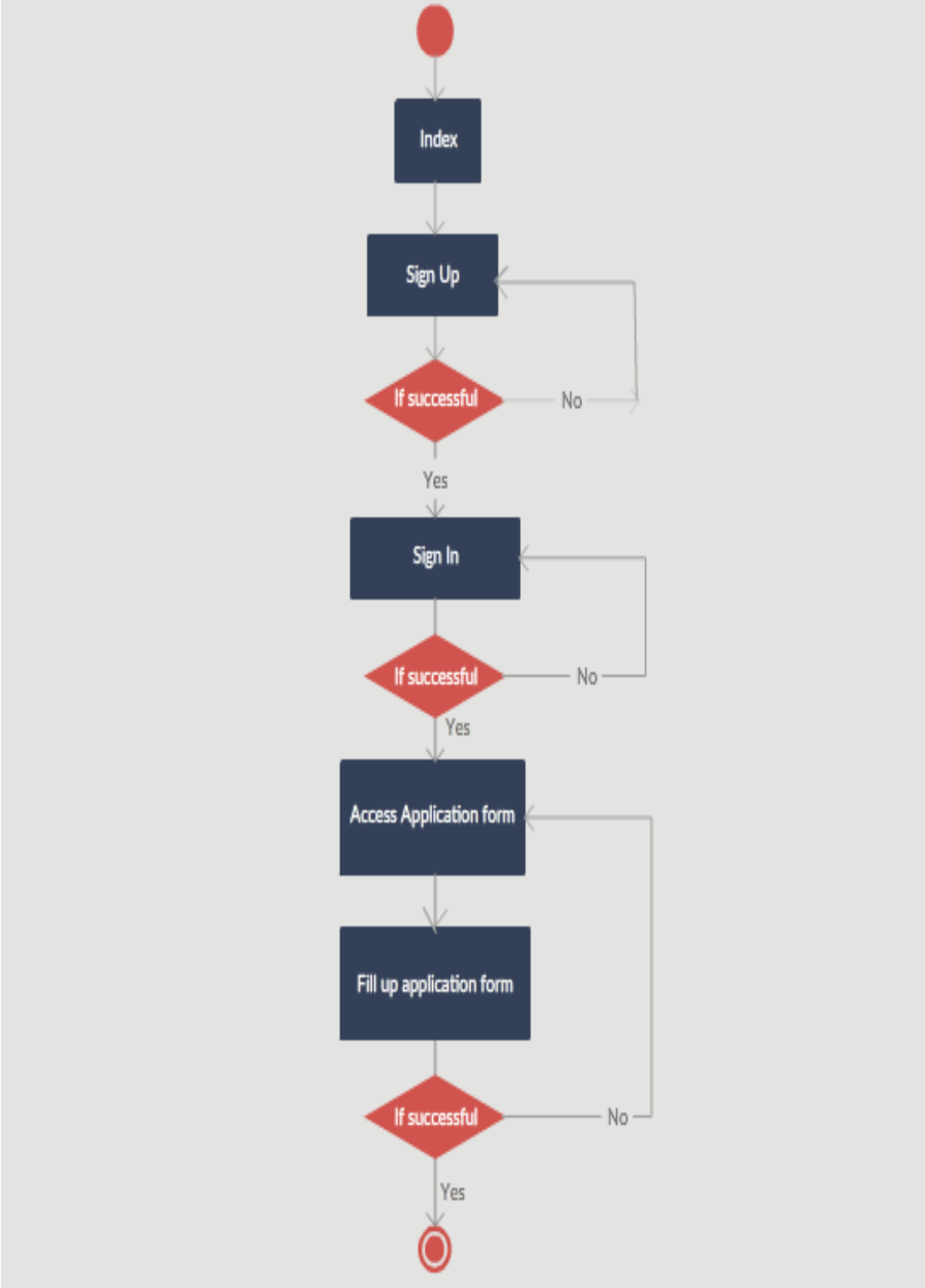


Figure 3.3: Activity diagram for Student

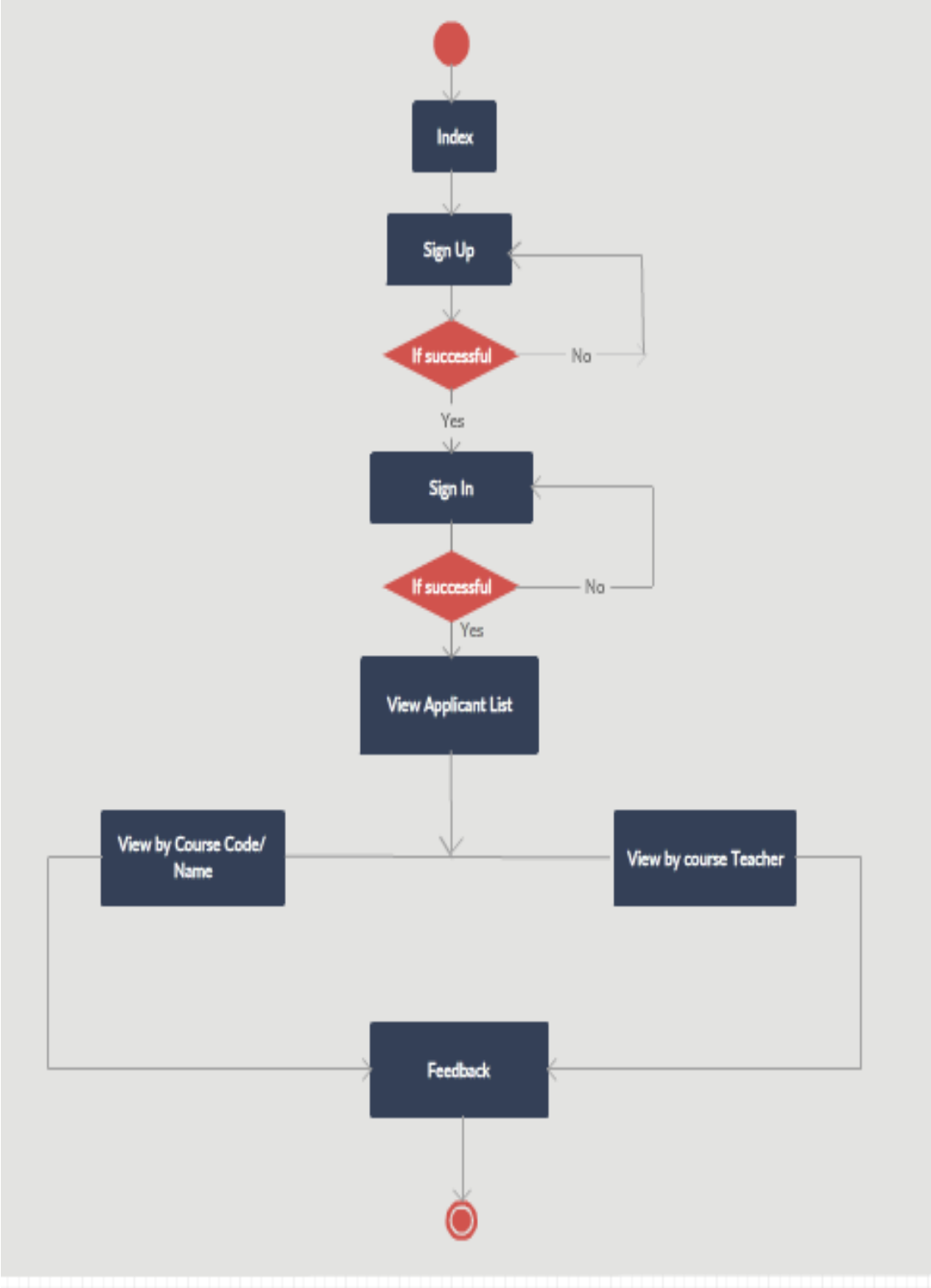


Figure 3.4: Activity diagram for Teacher

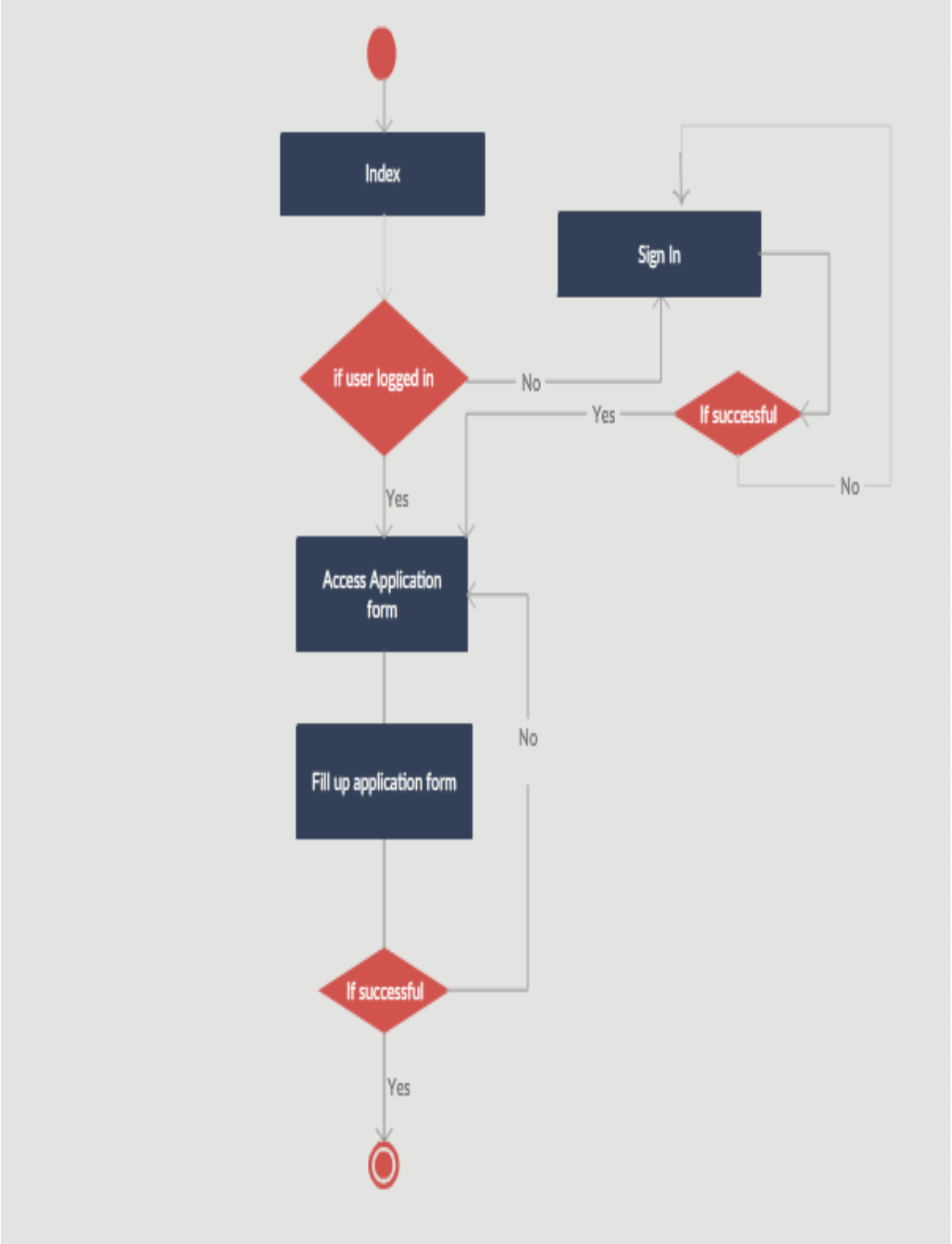


Figure 3.5: Activity diagram for apply in exam

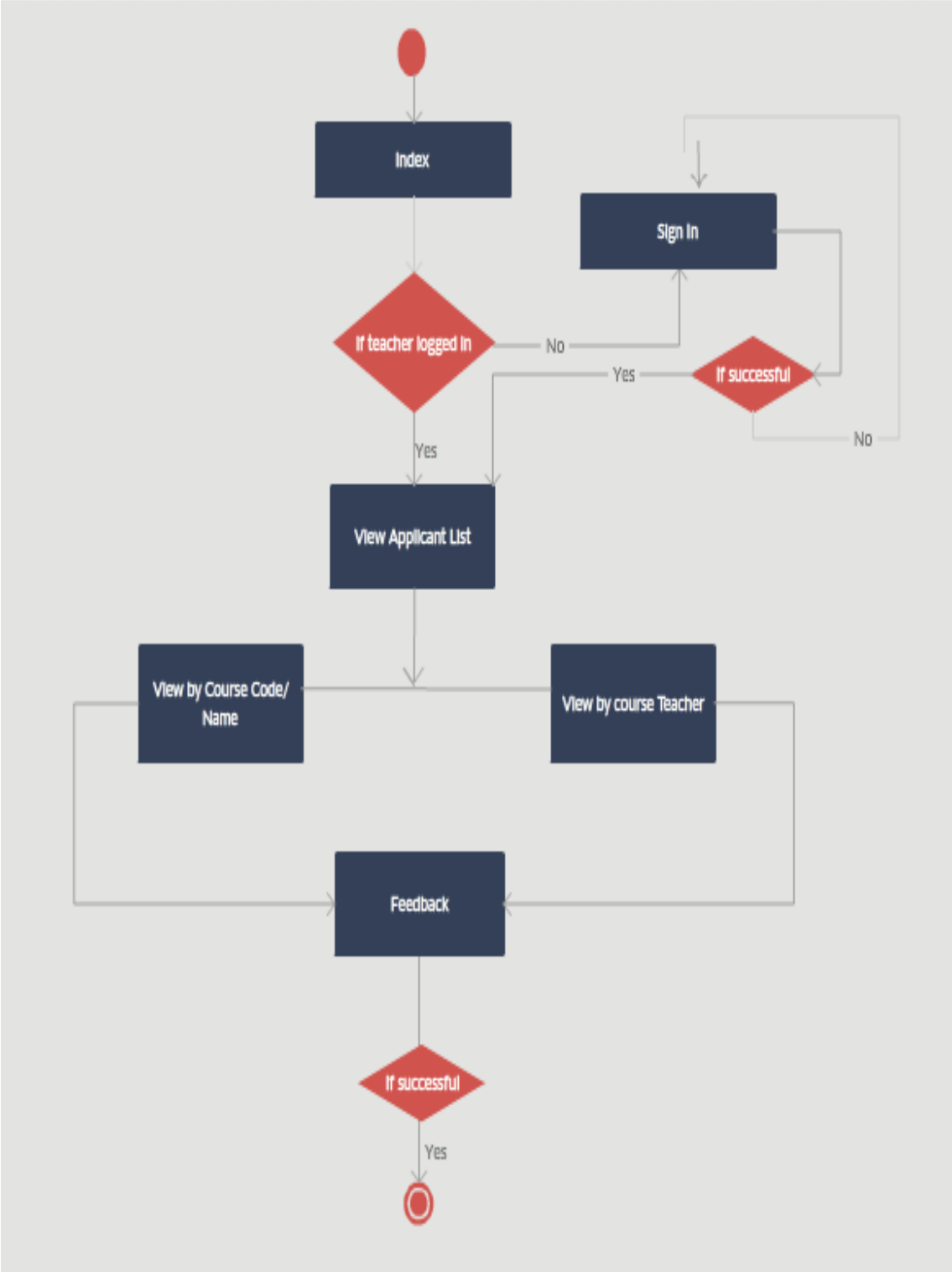


Figure 3.6: Activity diagram for Accessing Applicant list

3.4 System Sequence Diagram:

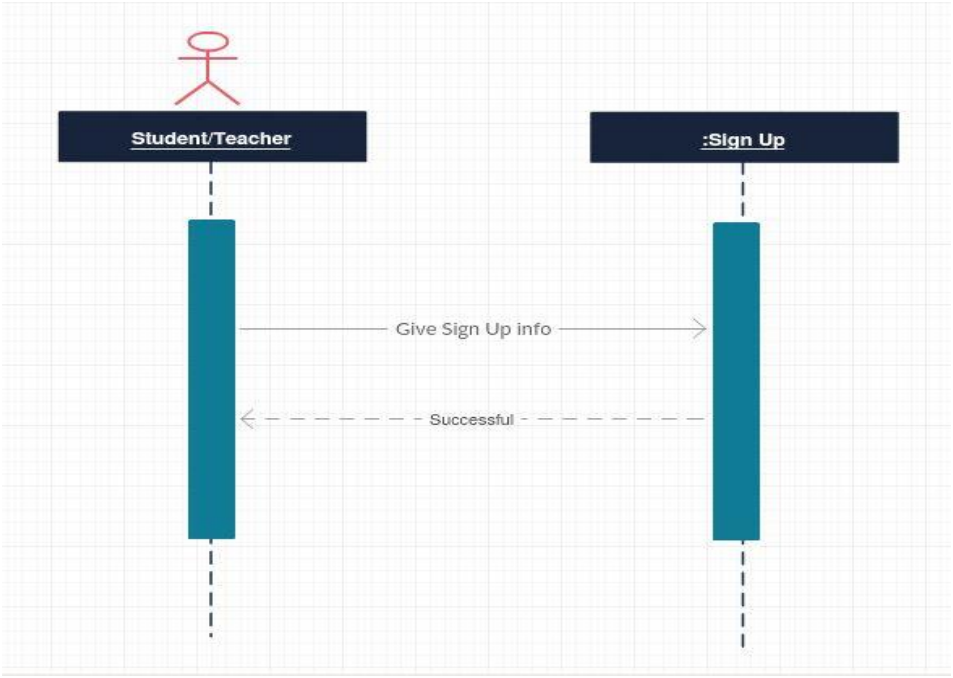


Figure 3.7: System Sequence Diagram for Sign Up

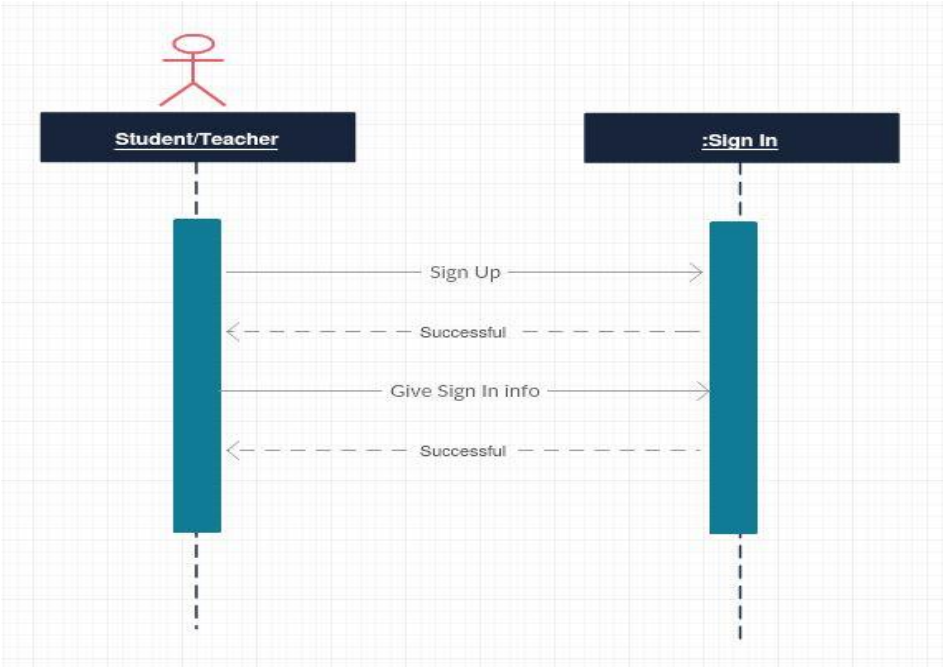


Figure 3.8: System Sequence Diagram for Sign In

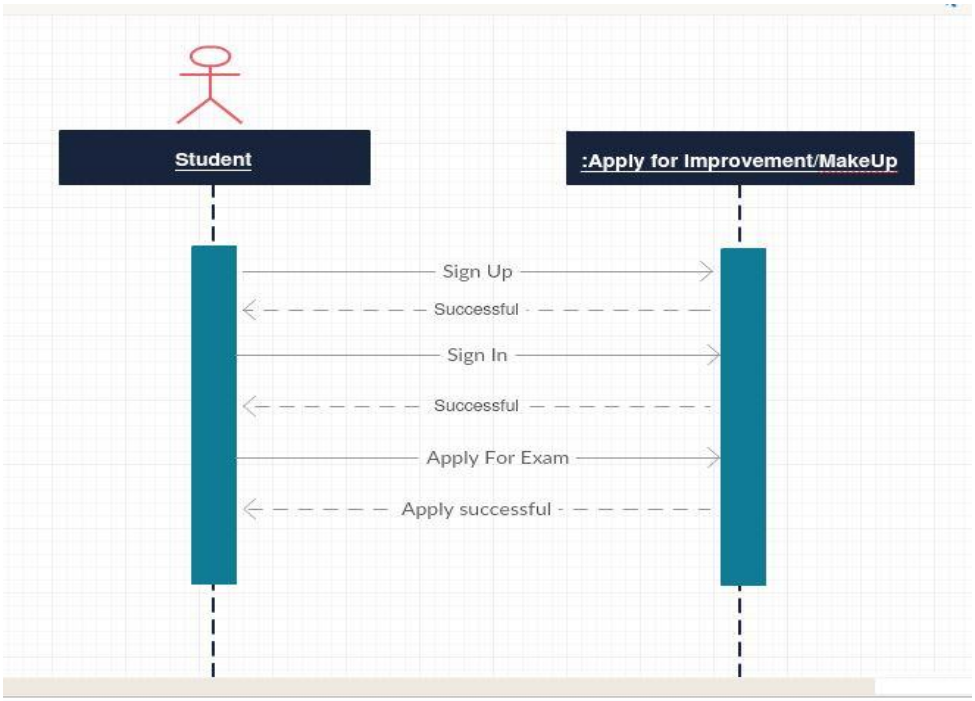


Figure 3.9: System Sequence Diagram for Apply for improvement

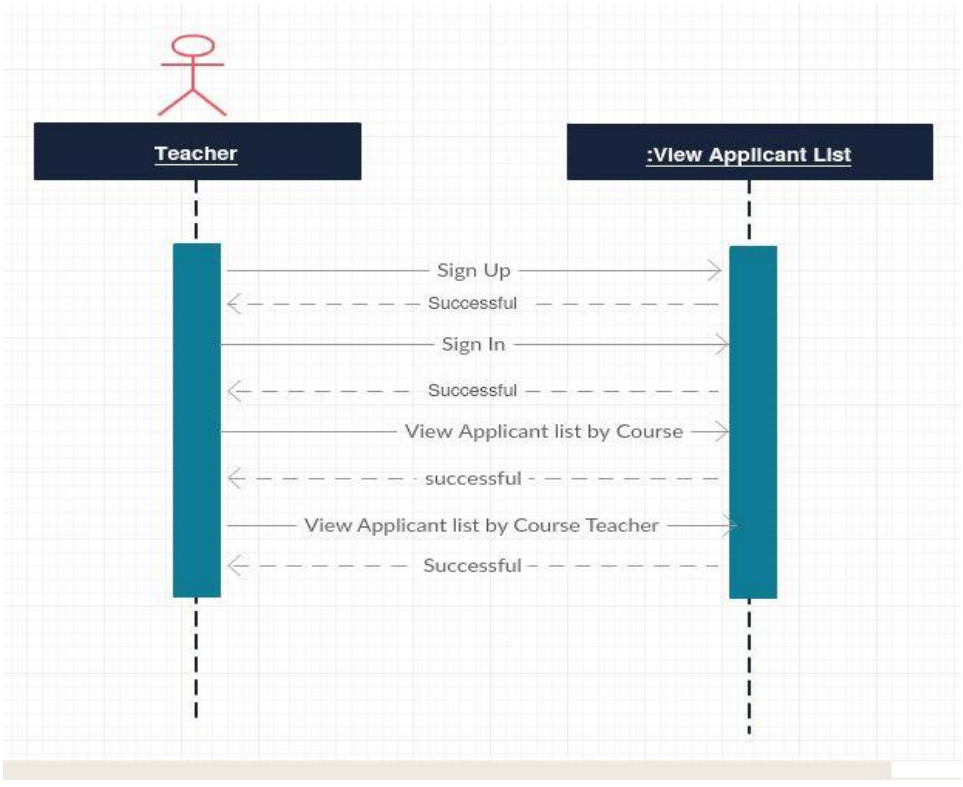


Figure 3.10: System Sequence Diagram for View Applicant list

Chapter 4

System Design Specification

4.1 Sequence Diagram:

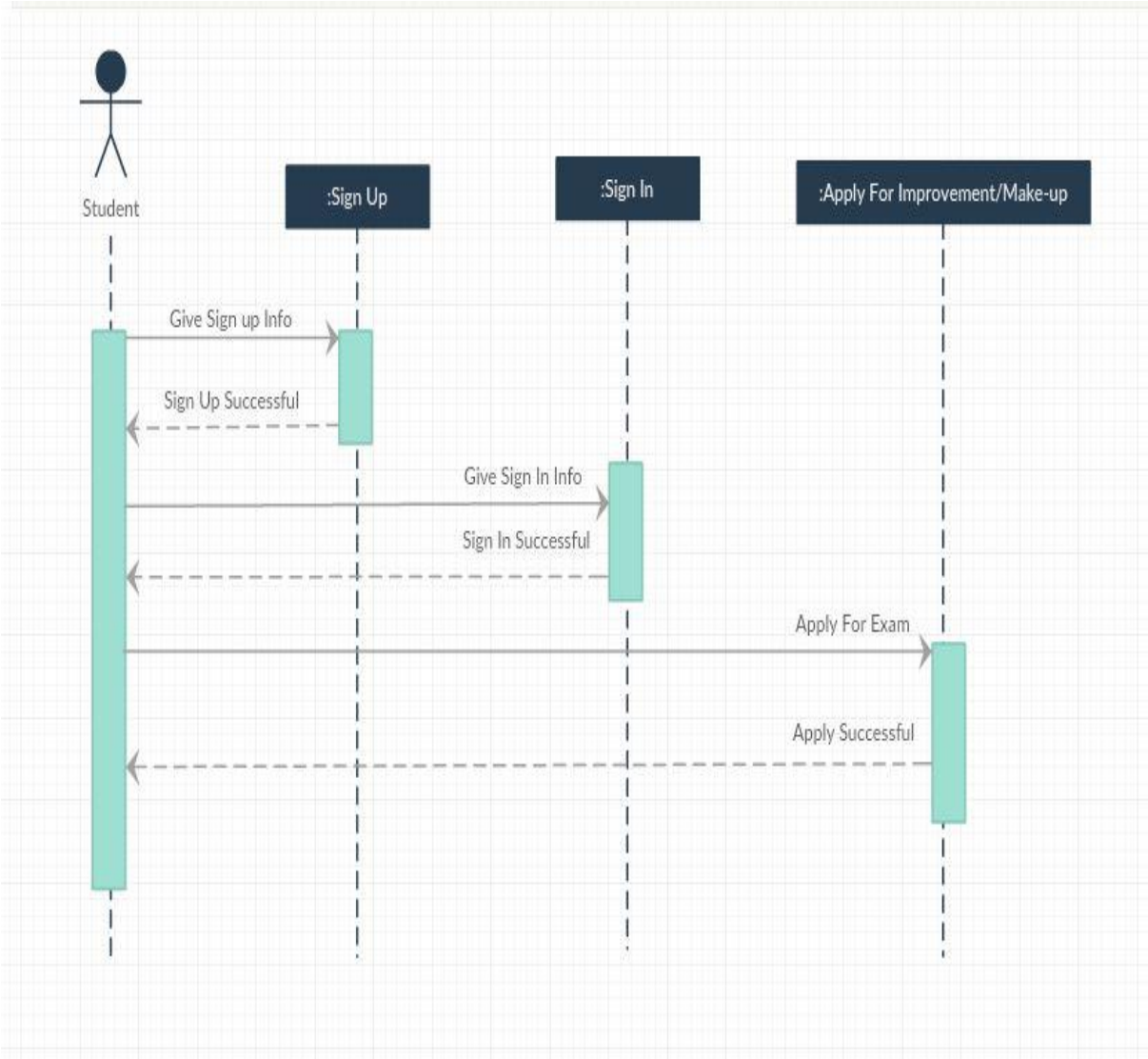


Figure 4.1: Sequence Diagram for Student

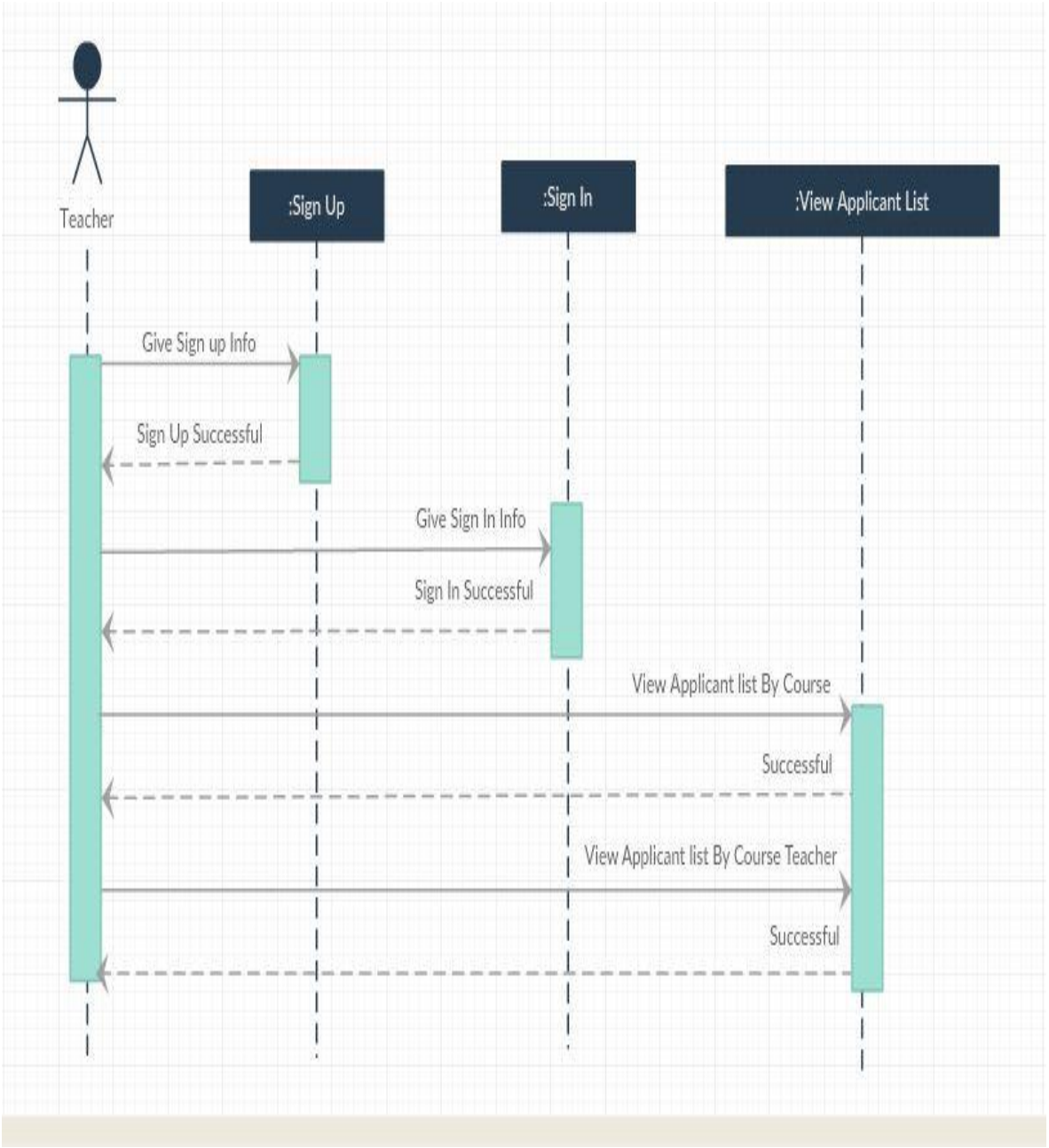


Figure 4.2: Sequence Diagram for Teacher

4.2 Class Diagram:

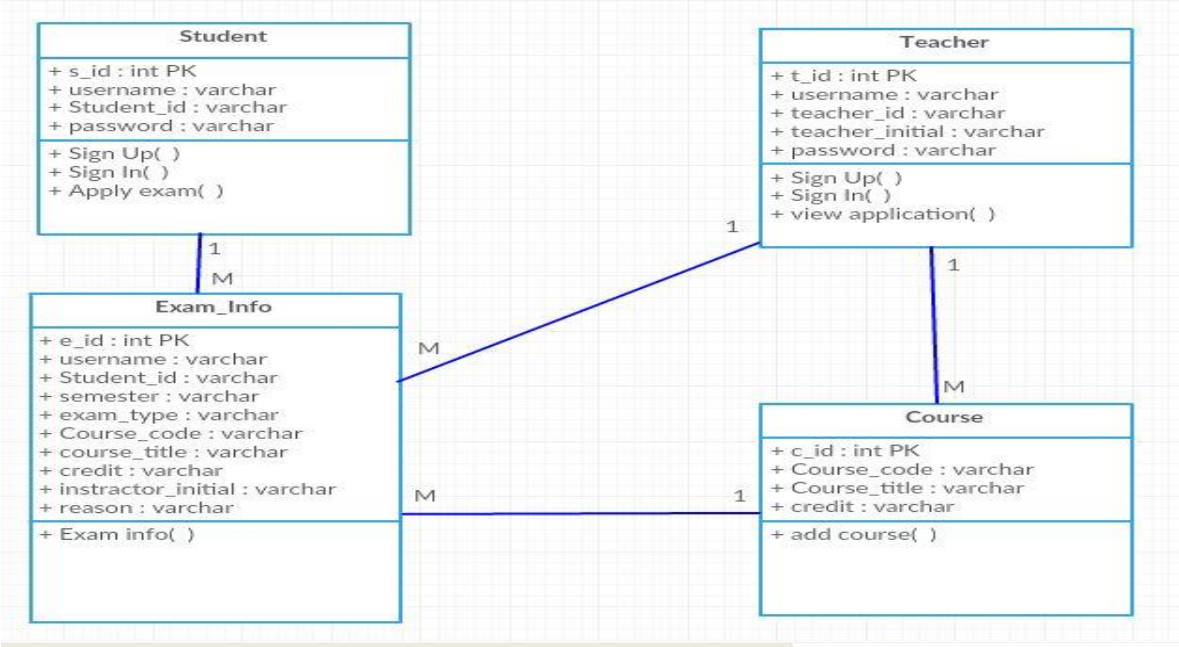


Figure 4.3: Class Diagram for Improvement Examination Maintenance System

4.3 Entity Relationship Diagram:

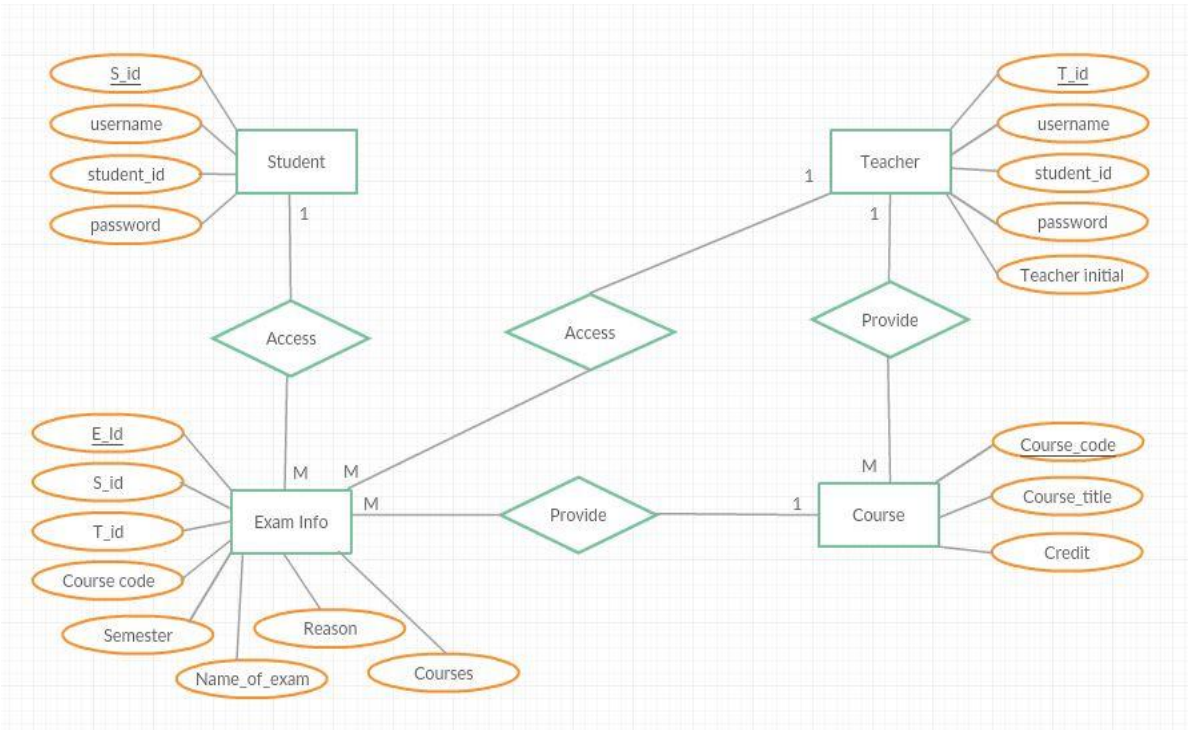


Figure 4.4: Entity Relationship Diagram for Improvement Examination Maintenance System

4.4 Development Tools & Technology:

4.4.1 User Interface Technology:

4.4.1.1 Framework:

No Framework used for this project. Use only raw PHP as a language.

4.4.1.2 Angular JS:

Use Java Script for this project.

4.4.1.3 CSS Framework:

Use Bootstrap CSS in this project for responsive website.

4.4.2 Implementation Tools & Platforms:

4.4.2.1 Language:

Use PHP as Language for this project. Because it looks very simple and easy to use.

4.4.2.2 MySQL Server:

Use MySQL Server as Database in this project.

4.4.2.3 Apache HTTP Server:

For run this Project use Apache HTTP Server as local server. Because it access very simple and easy to use. And HTTP local Server free for everyone use.

Chapter 5

System Testing

5.1 Testing Features

Unit Testing is a software technique method. Here test the every separate unit of code. I actually used this method after finish the project. I found some error in my system. Then I try to resolve it.

Acceptance Testing is used before the system release. When I use this method I actually found some minor error. Then I try to resolve it .After solve the system bug I release it for use.

5.1.1 Features to be tested

- Sign Up
- Sign In
- Sign out
- Student apply in exam
- Successfully view Applicant list by Course
- Successfully view Applicant list by Course Teacher

5.1.2 Features not to be tested

- Feedback

5.2 Testing Strategies

5.2.1 Test Approach

Actually I use some test approaches in this section.

Test levels
Test types
Testing Environment

5.2.1.1 Test levels:

Actually i perform some common testing levels. Like unit testing, integration testing, system testing and user acceptance testing. I am carefully performing the testing levels.

5.2.1.2 Test types:

Actually i am study about some testing types. In this project I use unit testing, integration testing, system testing and user acceptance testing. I used 50 percent time for unit testing and other 50 percent are used for integration testing, system testing and user acceptance testing.

5.2.1.3 Testing Environment:

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

5.2.2 Pass/Fail Criteria

My Project passes all the criteria.

5.3 Testing Schedule

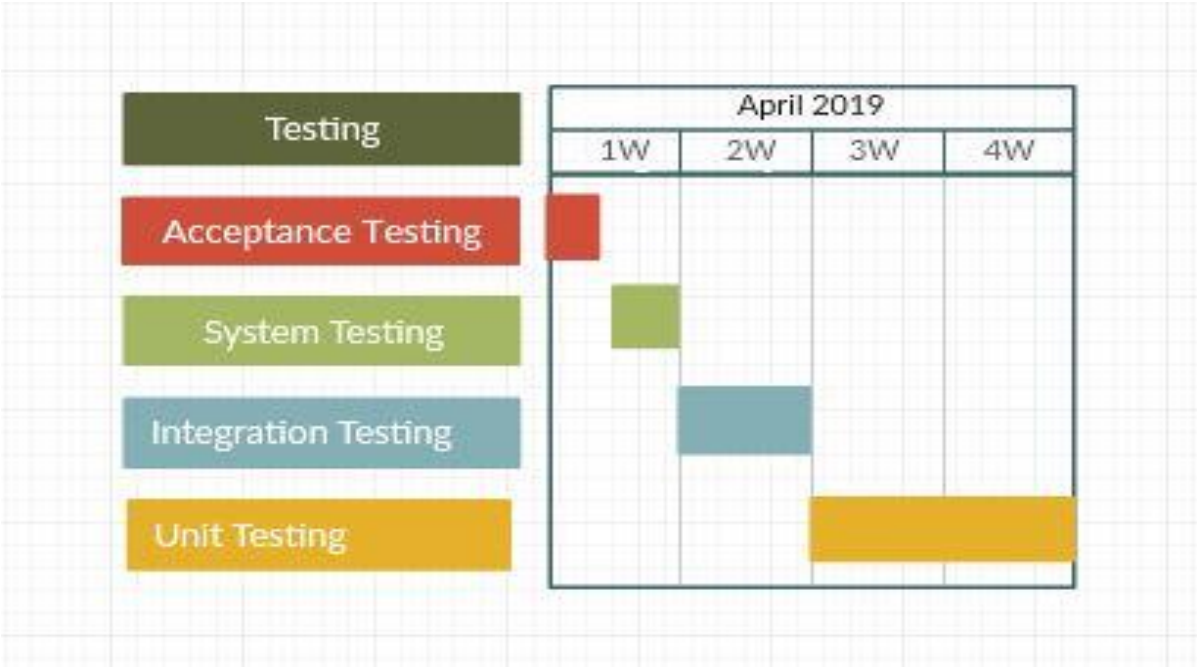


Figure 5.1: Testing schedule for Improvement Examination Maintenance System

5.4 Test Cases:

5.4.1 Test Case for Sign Up:

Test Case 01	Case Name: Testing the sign up panel.
Designed By: Muttasim Billah Masum	Design date: 22.4.19
Executed By: Muttasim Billah Masum	Execute Date:22.4.19
Short Description: This case manages the sign up function.	
Precondition: Go to http://localhost/website/(registerstudent/registerteacher)	

Steps	Action	Action Result	Expected System Response	Pass/Fail
1	Click Sign up Button	Required message	Required message	Pass
2	Put valid student id/teacher id and wrong password	Error Message	No Required Message	Fail
3	Put wrong student id/teacher id and password	Error Message	No Required Message	Fail
4	Put valid student id/teacher id and password	Signed up	Signed up	Pass

5.4.2 Test Case for Sign In:

Test Case 02	Case Name: Testing the sign in panel.
Designed By: Muttasim Billah Masum	Design date: 22.4.19
Executed By: Muttasim Billah Masum	Execute Date:22.4.19
Short Description: This case manages the sign in function.	
Precondition: Go to http://localhost/website/(loginrstudent/loginteacher)	

Steps	Action	Action Result	Expected System Response	Pass/Fail
1	Click Sign In Button	Required message	Required message	Pass
2	Put valid student id/teacher id and wrong password	Error Message	No Required Message	Fail
3	Put wrong student id/teacher id and password	Error Message	No Required Message	Fail
4	Put valid student id/teacher id and password	Signed in	Signed in	Pass
5	Click sign in button without enter student id/teacher id and password	Error Message	Required message	Fail

5.4.3 Test Case for Applying Improvement:

Test Case 03	Case Name: Testing the Applying Improvement exam panel.
Designed By: Muttasim Billah Masum	Design date: 22.4.19
Executed By: Muttasim Billah Masum	Execute Date:22.4.19
Short Description: This case manages the for Applying Improvement exam	
Precondition: Go to http://localhost/website/application.	

Steps	Action	Action Result	Expected System Response	Pass/Fail
1	Click Sign In Button and access application form	Required message	Required message	Pass
2	Put valid Information for apply in exam	Required Message	Required Message	Pass
3	Put invalid Information for apply in exam	Error Message	No Required Message	Fail

4	Click submit button without fill-up all data properly	Error Message	Required message	Fail

5.4.4 Test Case for View Applicant List:

Test Case 04	Case Name: Testing the View Applicant List panel.
Designed By: Muttasim Billah Masum	Design date: 22.4.19
Executed By: Muttasim Billah Masum	Execute Date:22.4.19
Short Description: This case manages the View Applicant List function.	
Precondition: Go to http://localhost/website/applicant_list	

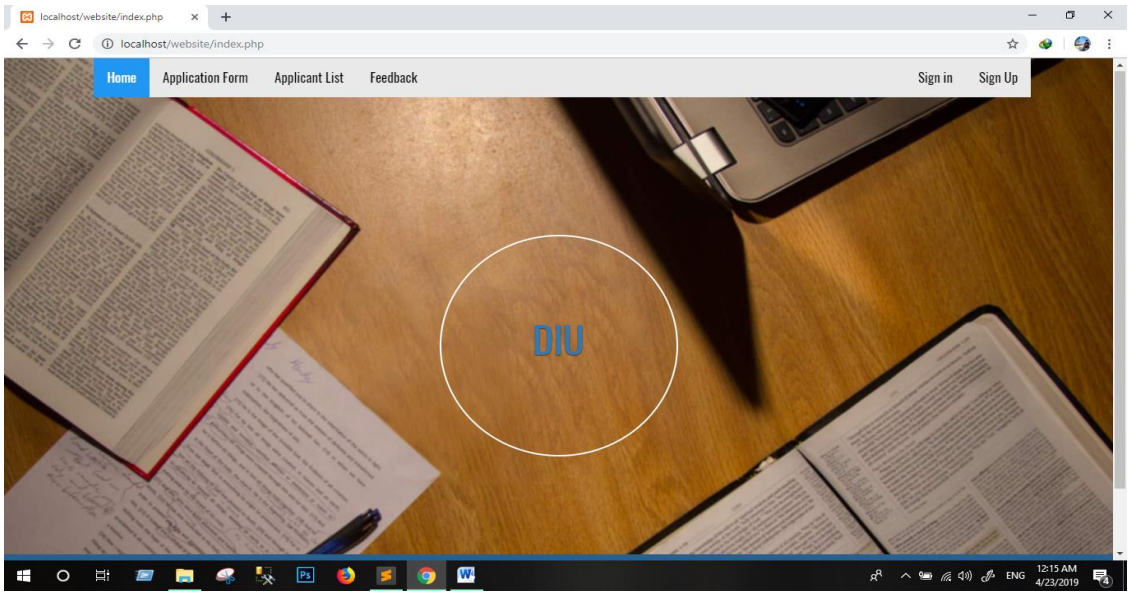
Steps	Action	Action Result	Expected System Response	Pass/Fail
1	Use teacher id and password for sign in	Required message	Required message	Pass
2	Put student id and password	Error Message	No Required Message	Fail
3	Click applicant list button	No Required Message	No Required Message	Pass
4	Click view Applicant list by Course	Successfully view	Successfully view	Pass
5	Click view Applicant list by Course Teacher	Successfully view	Successfully view	Pass

Chapter 6

6.1 User Manual:

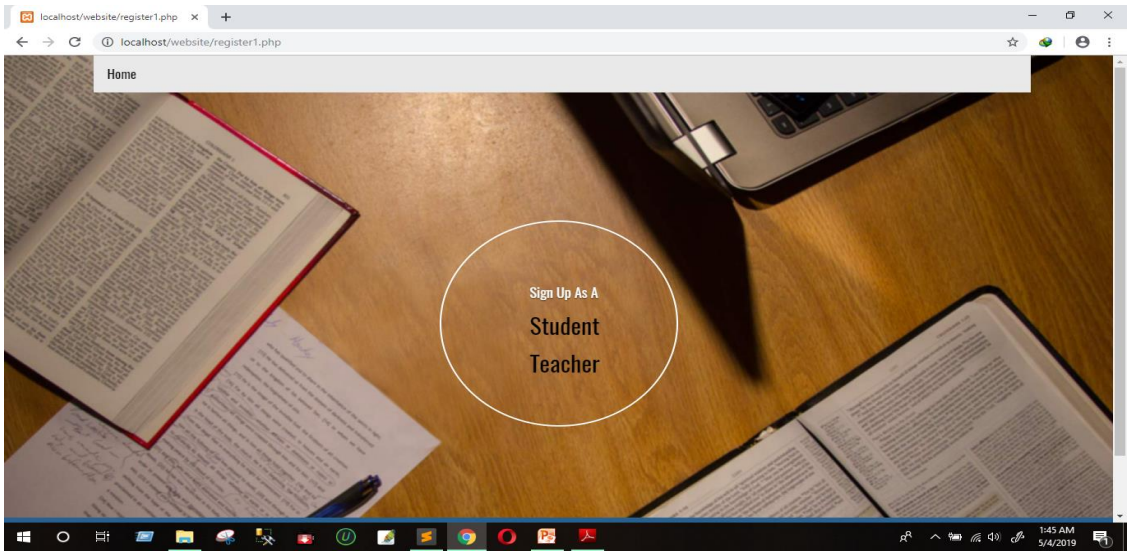
6.1.1 Index:

This is the index page. At first user access the index page. Here have a Title bar. Title bar contain sign in, sign up, application form, applicant list, feedback button for users use.



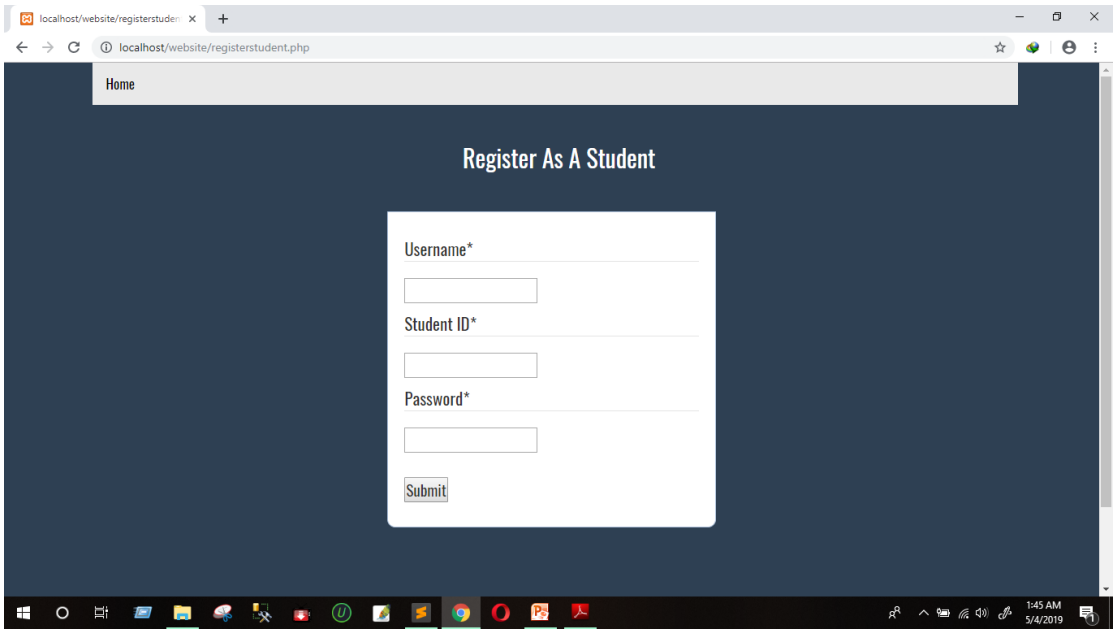
6.1.2 Sign Up:

In the index page navigation bar contain the sign up button. After clicking the sign up button the appeared page shown below.



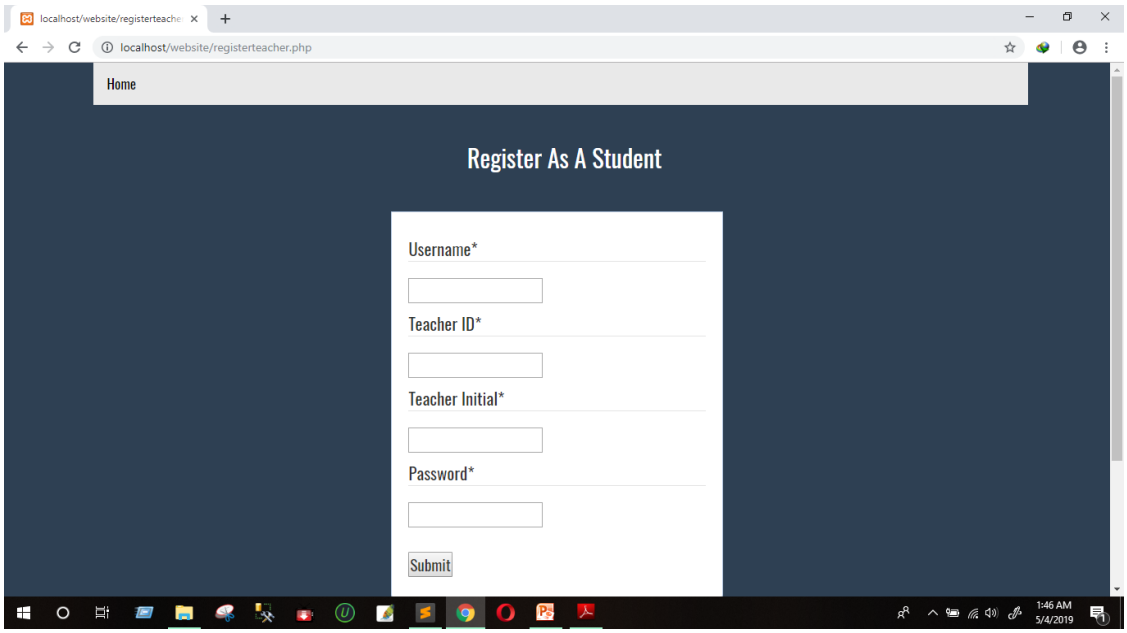
6.1.2.1 Sign Up as a student:

After clicking the sign up button student can find this page.



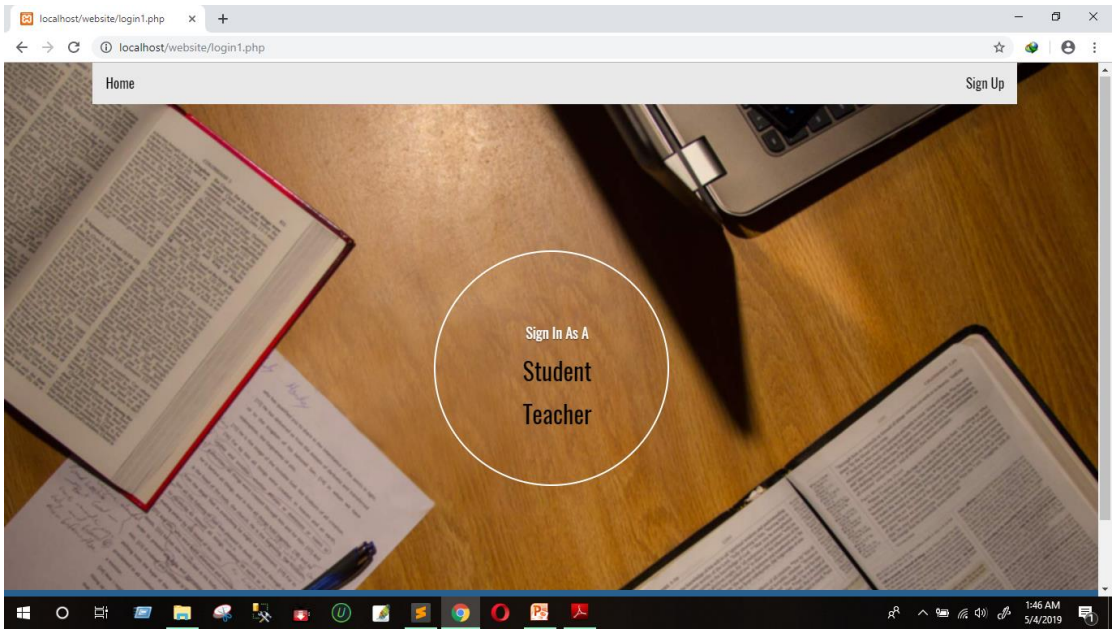
6.1.2.2 Sign Up as a teacher:

After clicking the sign up button teacher can find this page.



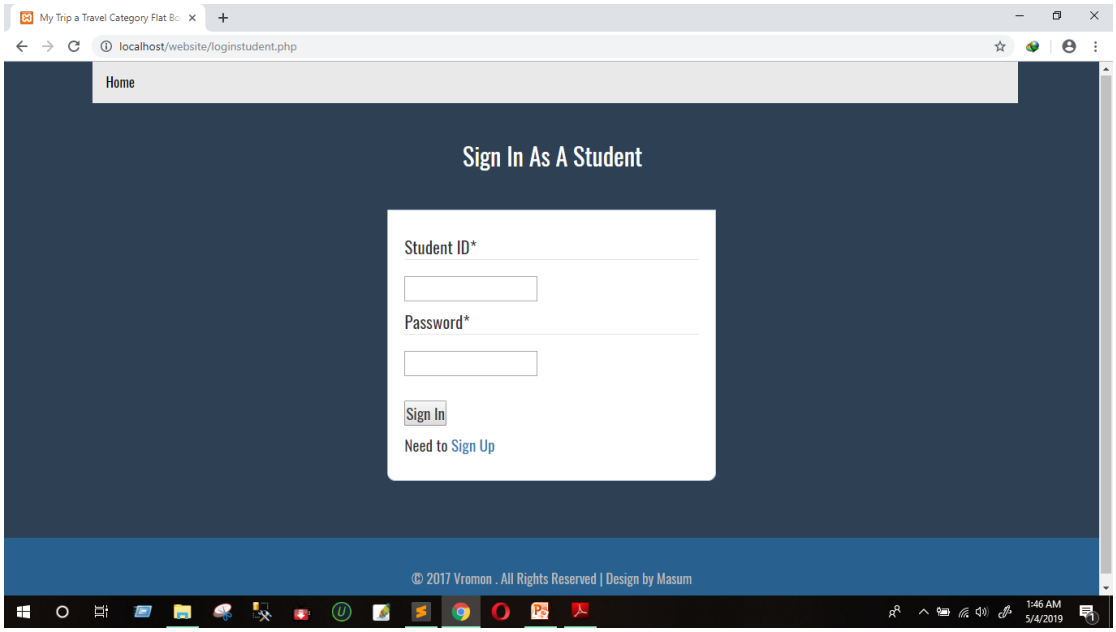
6.1.3 Sign In:

In the index page navigation bar contain the sign in button. After successfully sign up user can see the appeared page shown below.



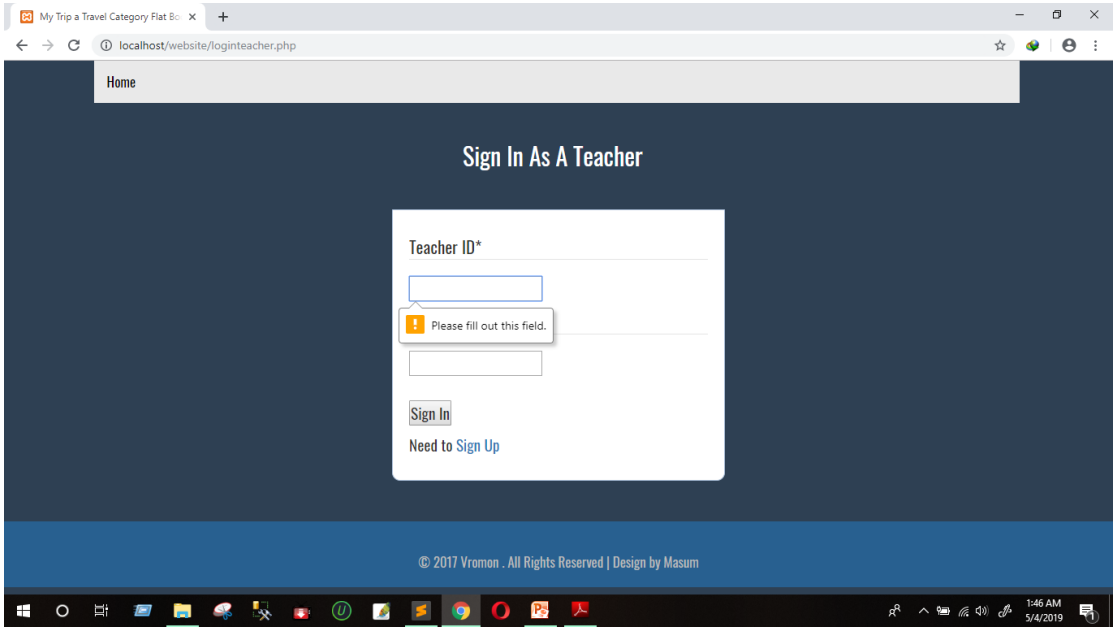
6.1.3.1 Sign In as a student:

After clicking the sign up button student can find this page. After successful sign up student can perform sign in option. Students enter student id and password and click on login and see that it works perfectly. After sign in student can see the webpage.



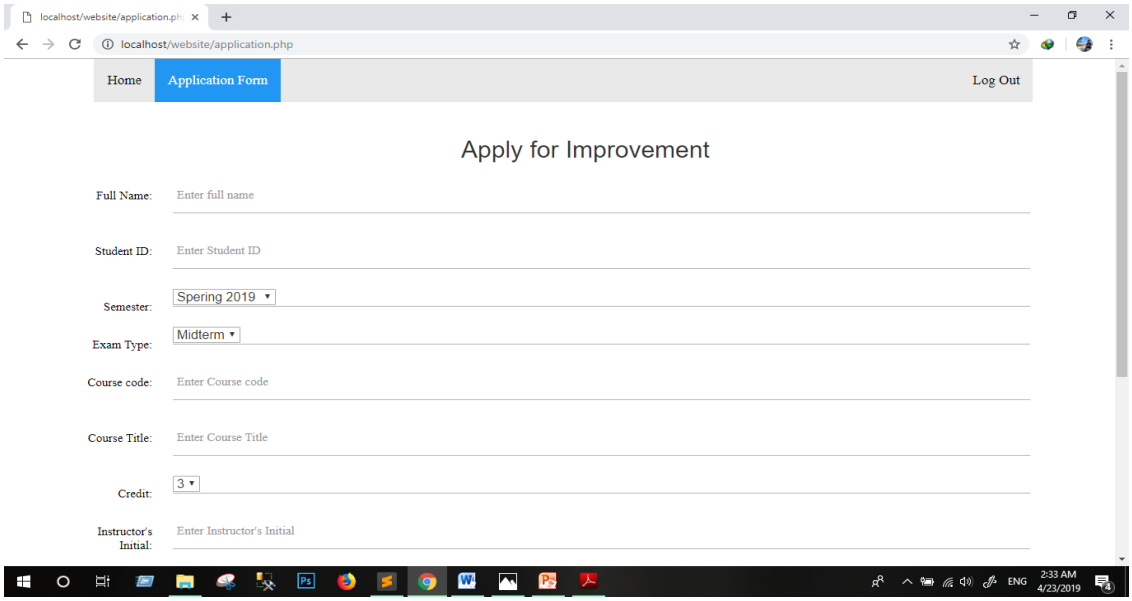
6.1.3.2 Sign In as a teacher:

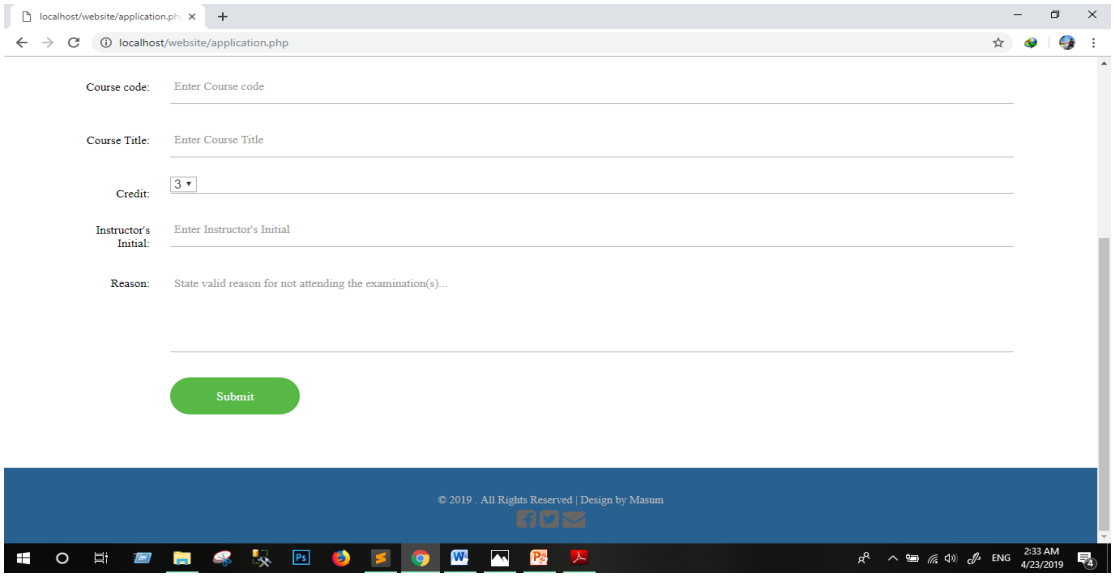
After clicking the sign up button teacher can find this page. After successful sign up teacher can perform sign in option. Teachers enter teacher id and password and click on login and see that it works perfectly. After sign in teacher can see the webpage.



6.1.4 Application form:

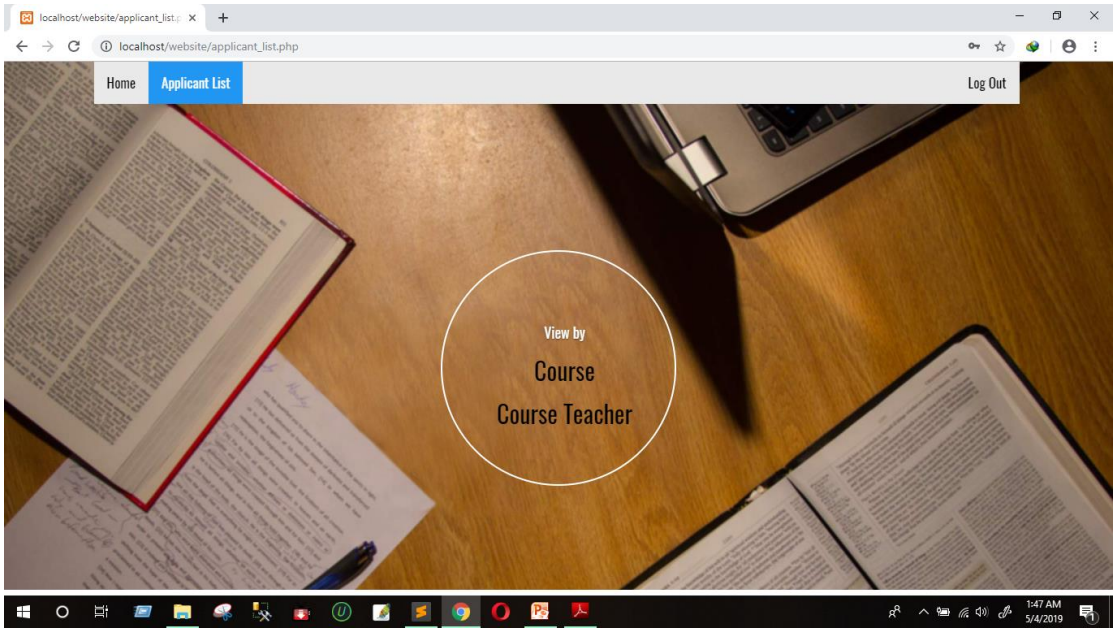
In the index page navigation bar contain the application form. After successfully sign in user can see the web page. For apply in exam student access the application form. Then student can fill up all information properly in this section. Then click the submit button. Then student apply in exam successfully. Application form shown below.





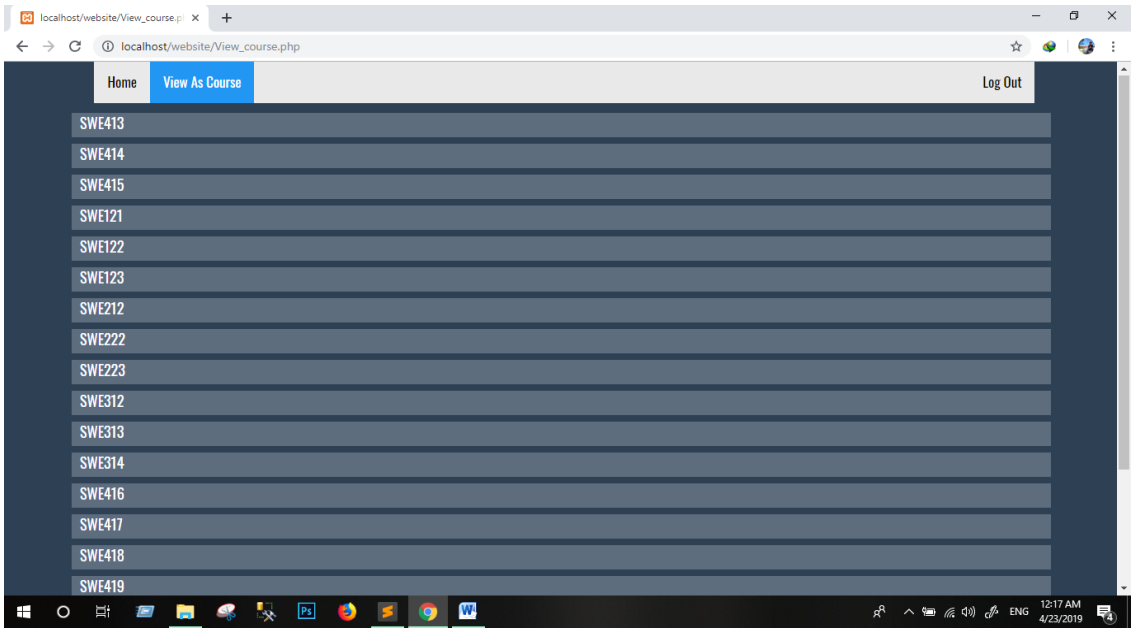
6.1.5 Applicant list:

In the index page navigation bar contain the applicant list. After successfully sign in teacher can see the web page. For accessing the applicant list teacher click the applicant list button. After click the applicant list button teacher can see the appeared page shown below.

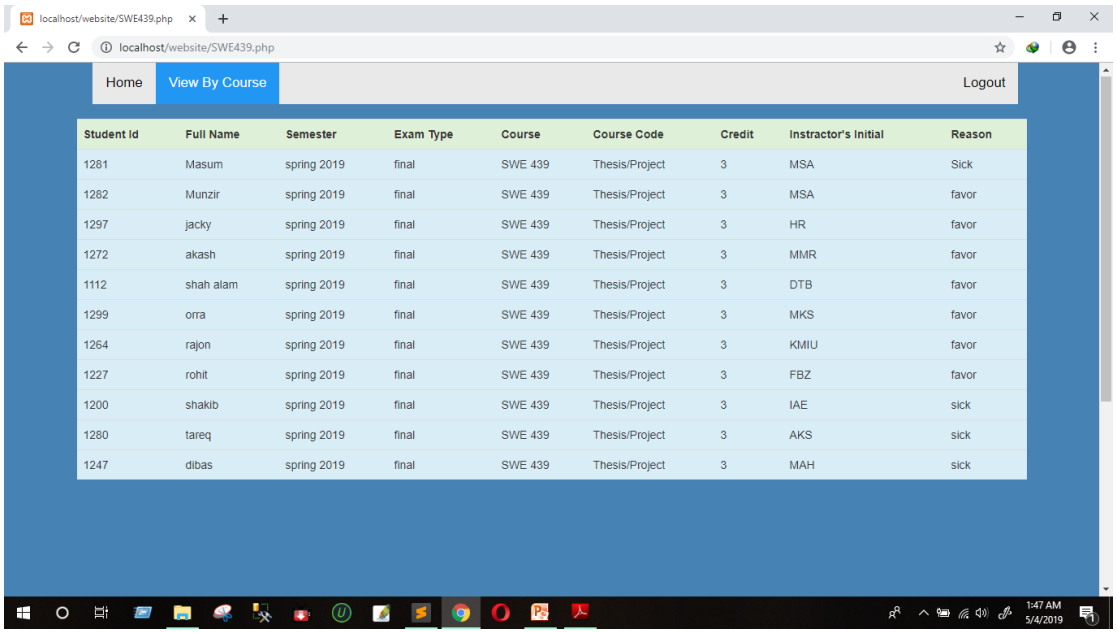


6.1.5.1 Applicant list view by course:

After click the applicant list button teacher can see two categories for view applicant list. Here teacher can see applicant list view by course button. After click the button teacher can see the course list. Course list page have shown below.

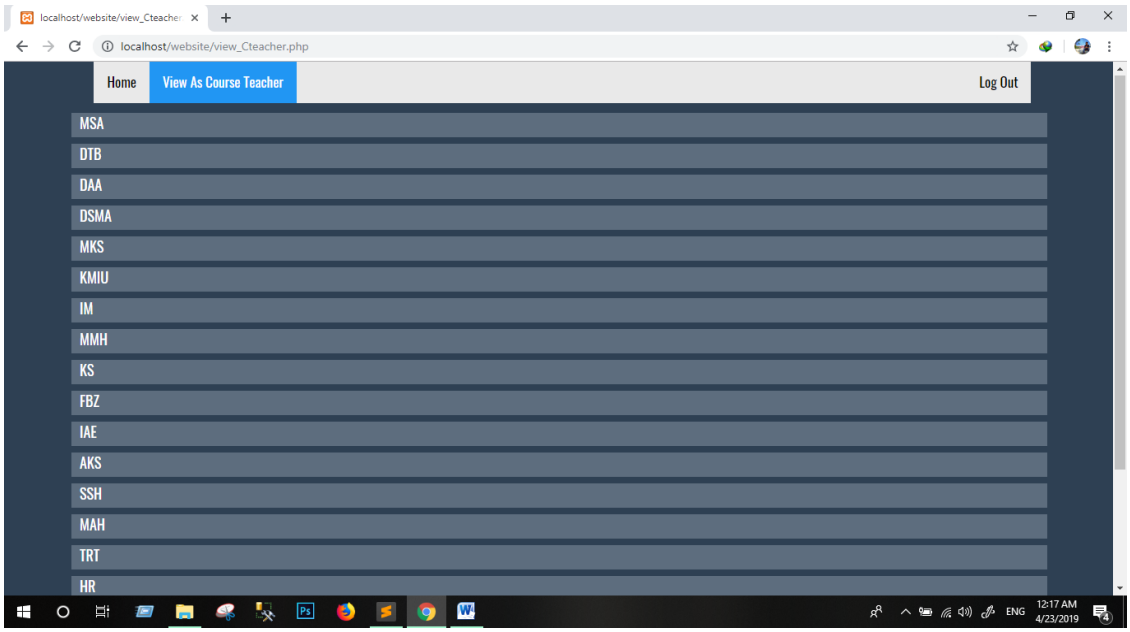


After click the course code teacher can see applicant list in this course. e.g. SWE439. Under this course teacher can view Applicant list. Applicant list page have shown below.

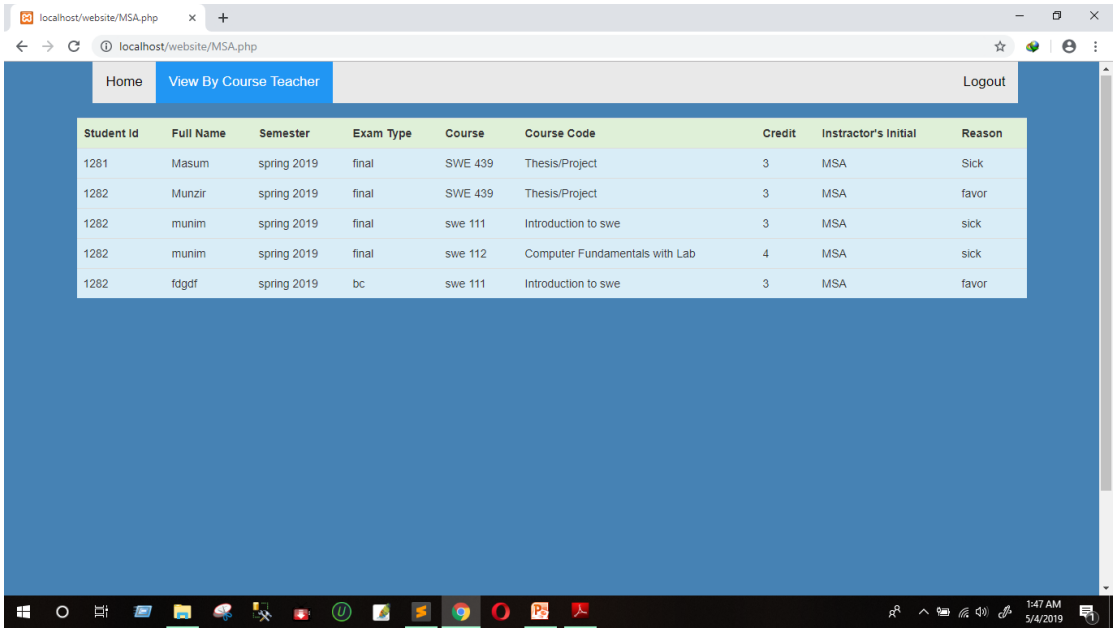


6.1.5.2 Applicant list view by course teacher:

After click the applicant list button teacher can see two categories for view applicant list. Here teacher can see applicant list view by course teacher button. After click the button teacher can see the teacher list. Teacher list page have shown below.

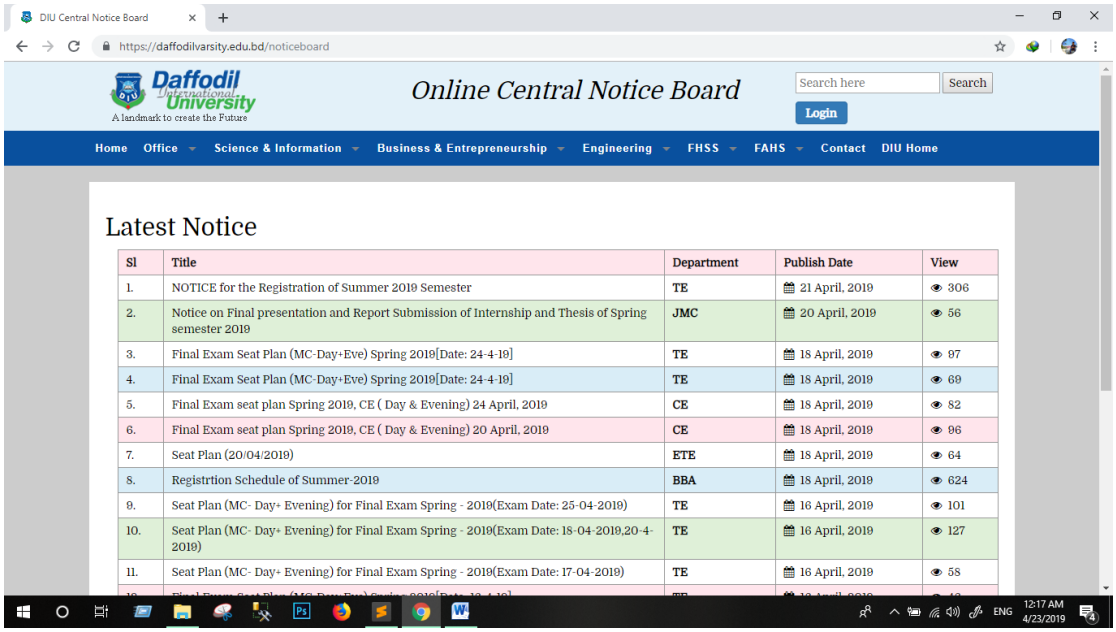


After click the course teacher initial teacher can see applicant list under this teacher. e.g. MSA. Under this teacher user can view Applicant list. Applicant list page have shown below.



6.1.6 Feedback:

In the index page navigation bar contain the Feedback option. After clicking the feedback button student can find this page. Here teachers can manage the student's application and complete validation process through this system. Teacher send the validate applicant list to authority. The authority can also publish the schedule of improvement or overlap exam at Diu notice board.



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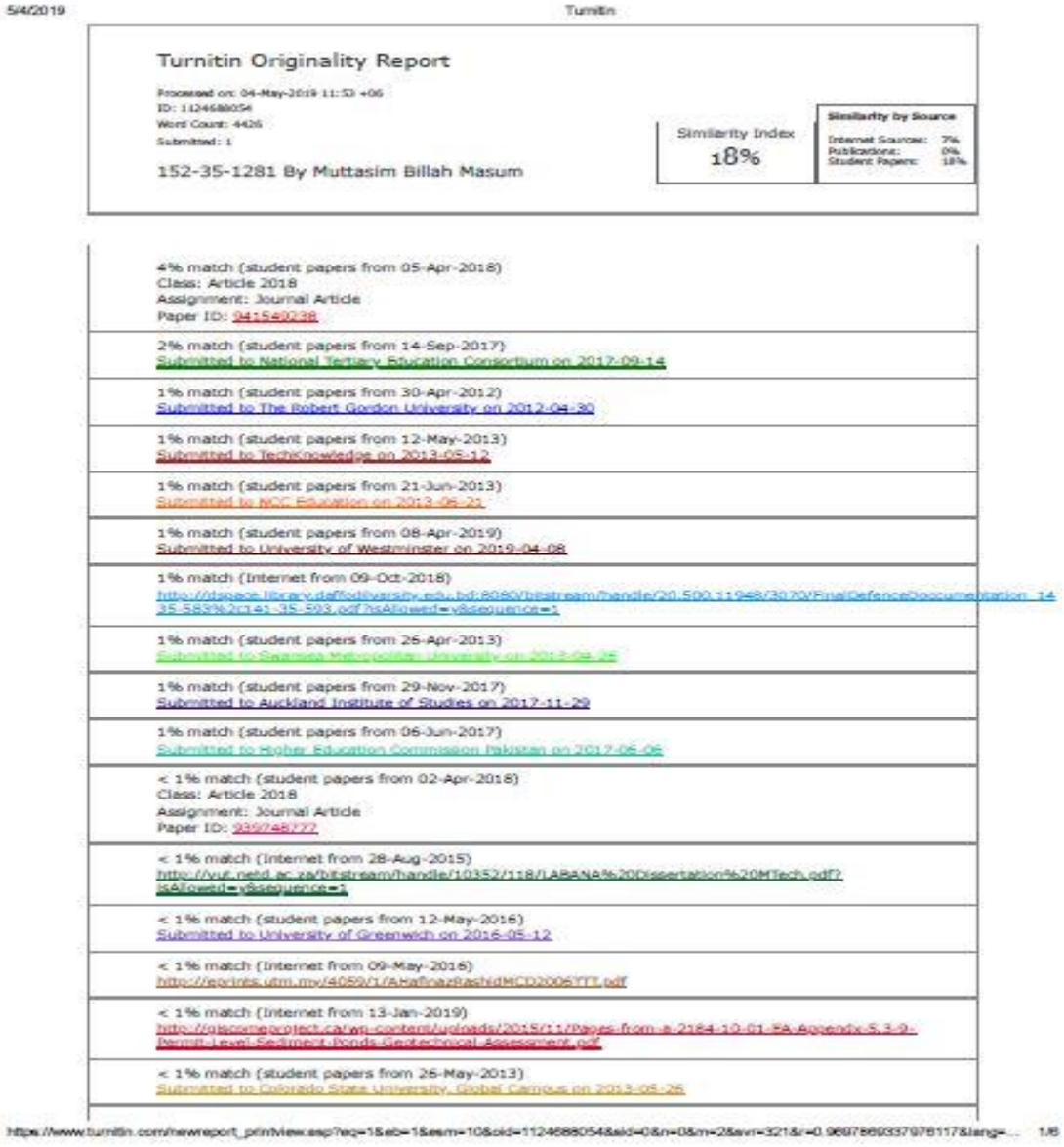

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