

CS551 Advanced Software Engineering

Fourth Increment Report (PG - 7)

Title: Campus Network

Submitted By: Sumanth Gunda (Class ID: 21) (TL)

Goutham Donthu (Class ID: 14)

Kothuri UmaMaheshwarRao(Class ID:28)

Jonnalagadda Rajesh (Class ID: 23)

I. INTRODUCTION

To get an appointment from the Instructor students are using mail to interact with the respective faculty. There is no facility to the students to check their attendance. Instructors do not have the smart facility to assess the student's profile. Faculty are using mails to notify any deadlines to the students. We are designing a web based portal which provides all the above facilities in an efficient way.

II. GOAL OF THE PROJECT

Our project provides a web based application which includes major options like Appointment scheduler, Attendance tracker, Performance tracker, Course tracker. Instructors and Students will no longer interact with the mails. They are provided with an interface which makes the work simple, efficient and saves the time.

III. EXISTING SERVICES

1. Service Name - Google Maps API

Description: - To track the student position before marking Attendance.

URL: <https://developers.google.com/maps/documentation/javascript/tutorial>.

2. Service Name - Google Chart API

Description: - To visualize the attendance and performance report of students.

URL: https://google-developers.appspot.com/chart/interactive/docs/quick_start.

3. Service Name - Google Drive API

Description: - To help create docs inside the web portal.

URL: <https://developers.google.com/drive/web/>.

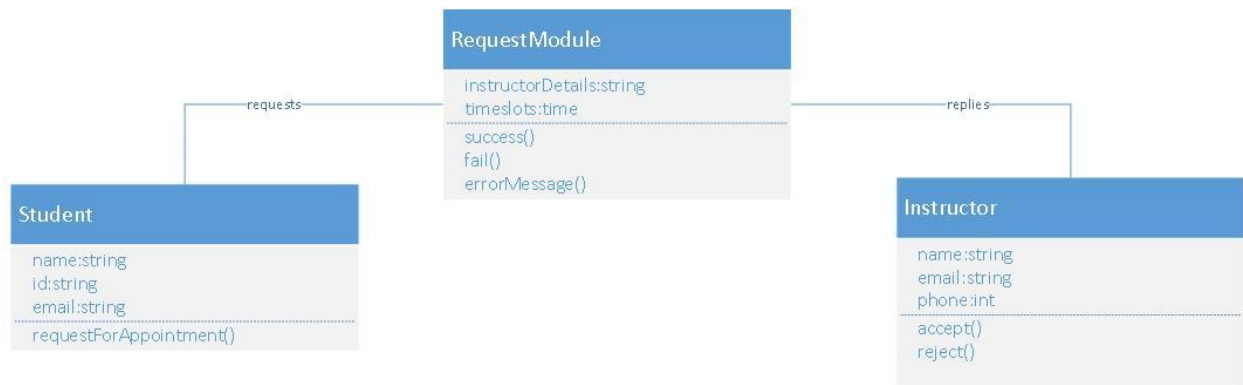
IV. DESIGN

The portal has 3 logins Administrator, Instructor and Student.

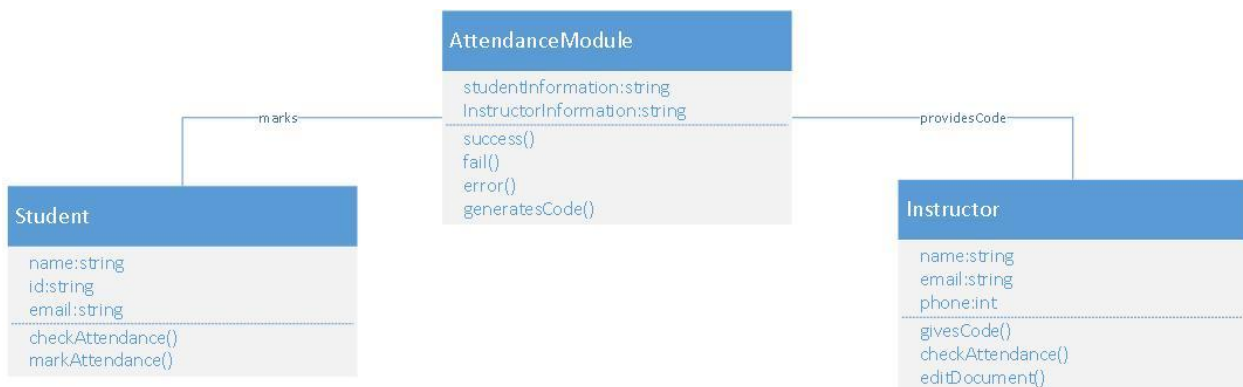
The project is divided into 4 modules

1. Requests Module.
2. Course Tracking.
3. Performance Module.
4. Attendance Module.

CLASS DIAGRAM:

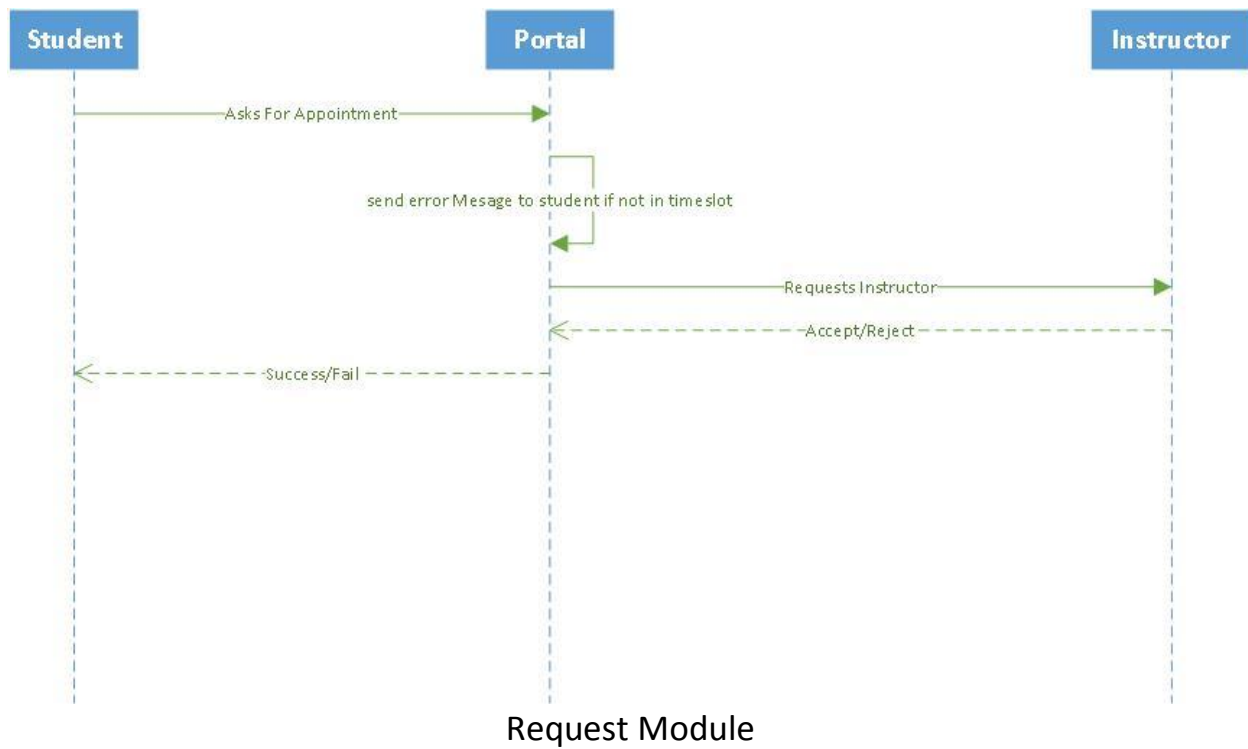


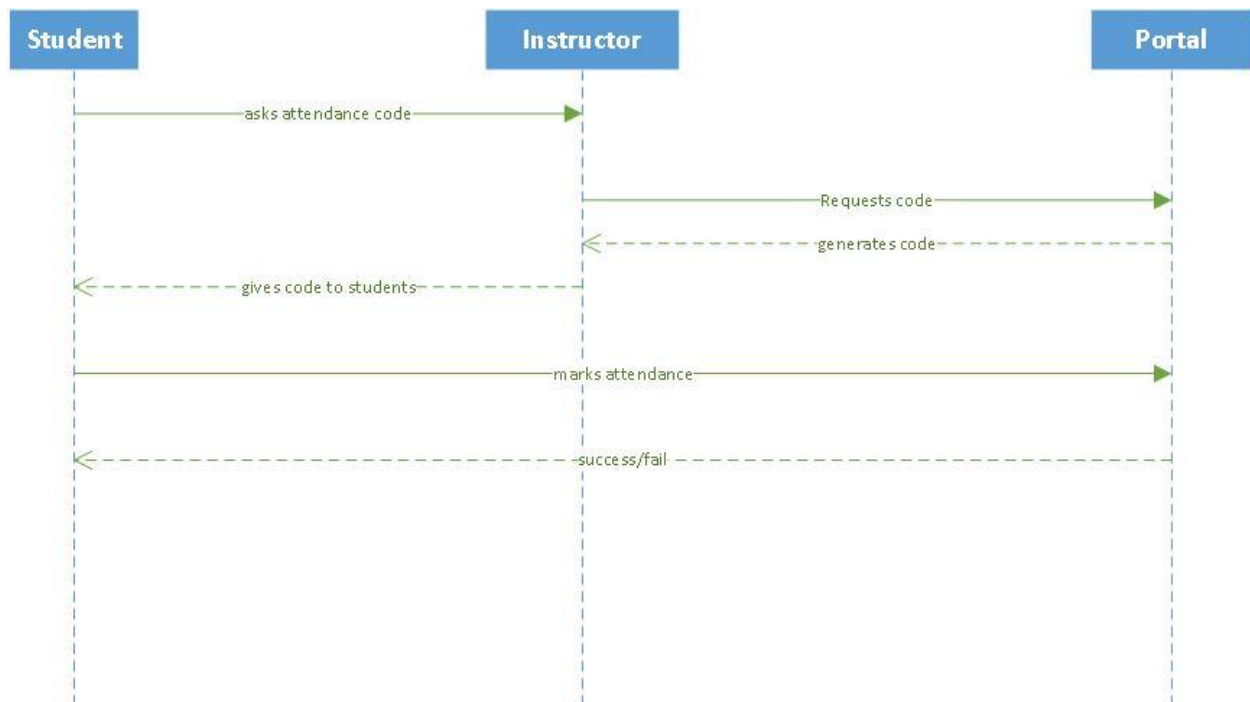
Request Module



Attendance Module

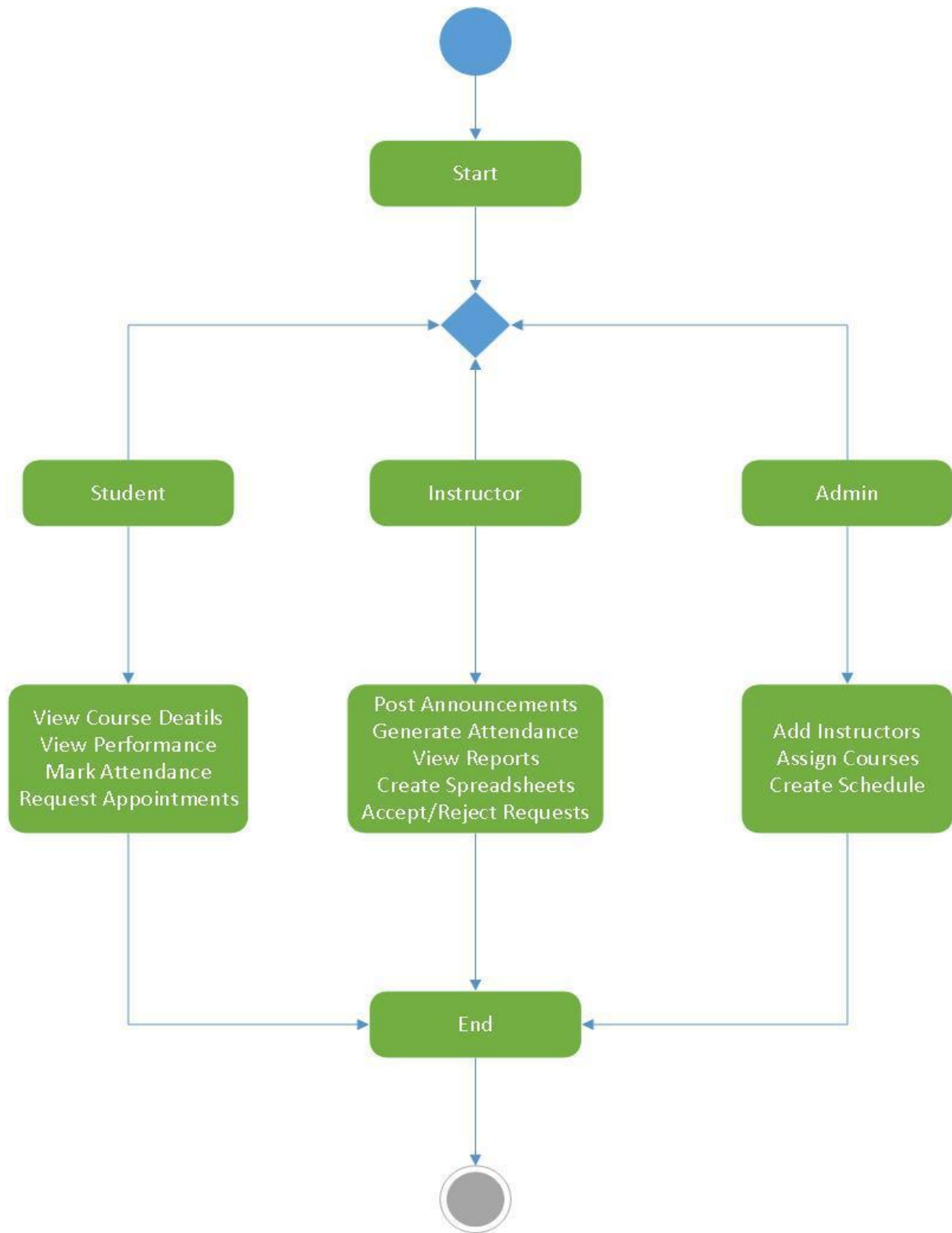
SEQUENCE DIAGRAM:





Attendance Module

ACTIVITY DIAGRAM:



V. IMPLEMENTATION

The Phase 4 of the Project Implements

1. Home page extension for students
2. Home page extension for Instructor
3. Instructor page in Attendance module
4. Student page in Attendance module
5. Validation of all pages
6. Database design and Executing scripts

Screenshots:

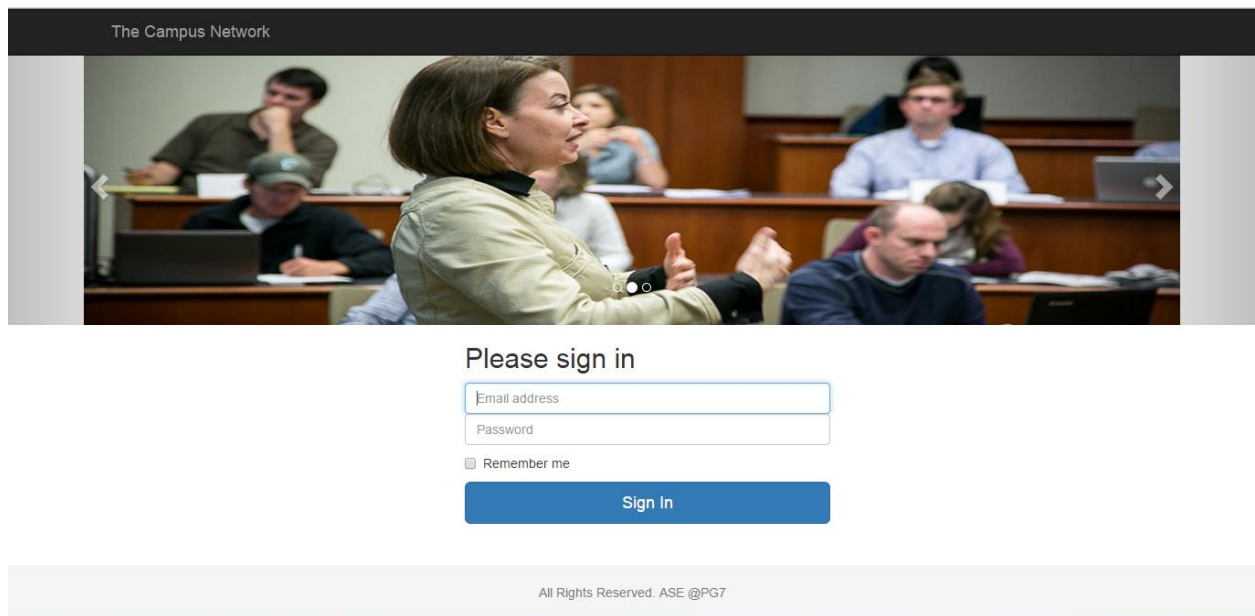


Fig 1: Login Page

This page will allow both students and Instructor to login to the portal.

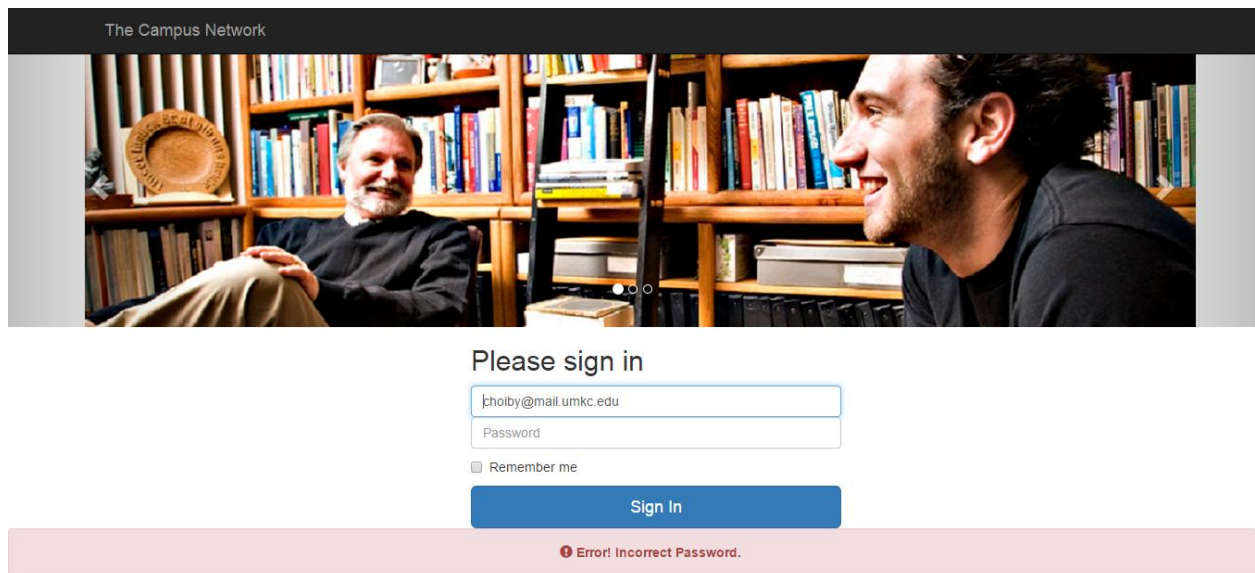


Fig 2: Login failed because of incorrect password

Here Instructor failed to enter correct password so login failed and error message is shown.

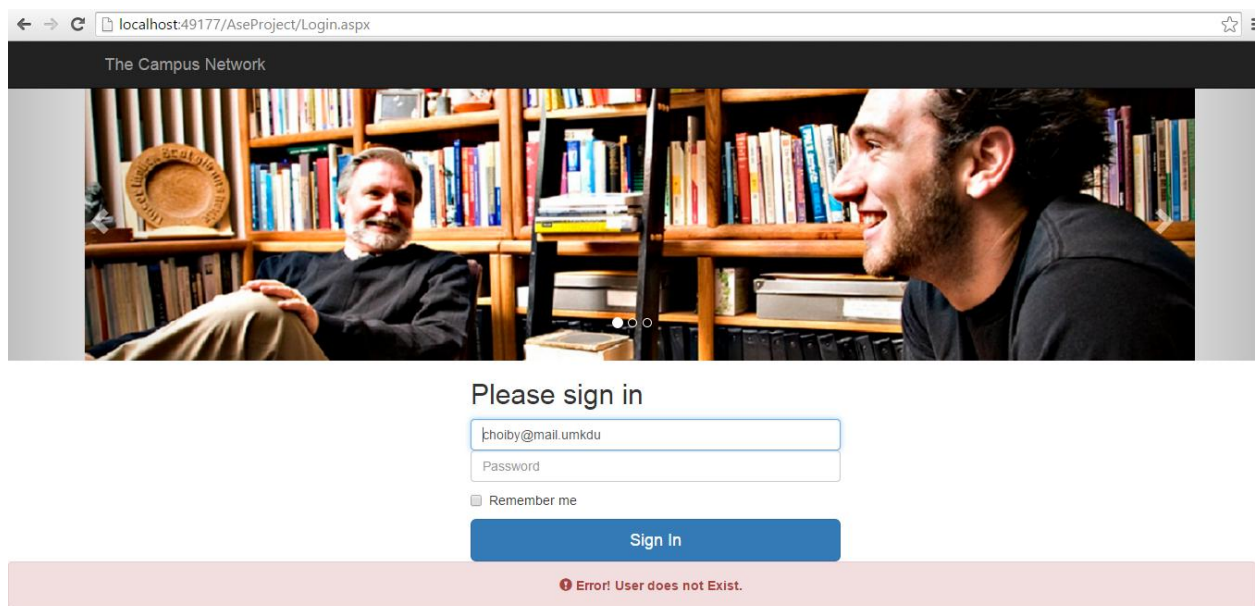


Fig 3: Login Failed because of wrong user name

Here Instructor failed to enter correct ID so login failed and error message is shown

The Campus Network
Home
Requests
Performance
Dropdown
Logout

Set Appointments

Select From Date
03/01/2015

Select To Date
03/14/2015

Select From Time
1:00
PM

Select To Time
2:00
PM

Duration of Appointment
10

Max No Of Appointments
5

Set Appointment

Appointments Successfully Set

Cancel Appointments

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Fig 4: Instructor set's Appointment

Here Instructor can set the time for their appointments. He should select the start date, end date, start time, end time, duration and number of appointments. Based on all the requirements given **appointments are scheduled dynamically** in our project.

The Campus Network
Home
Requests
Performance
Dropdown
Logout

Set Appointments
Cancel Appointments

Appointment Date	FromTime	ToTime	Duration	MaxAppointments	Cancel Appointments
3/2/2015	01:00:00	02:00:00	10	5	Delete
3/3/2015	01:00:00	02:00:00	10	5	Delete
3/4/2015	01:00:00	02:00:00	10	5	Delete
3/5/2015	01:00:00	02:00:00	10	5	Delete
3/6/2015	01:00:00	02:00:00	10	5	Delete
3/9/2015	01:00:00	02:00:00	10	5	Delete
3/10/2015	01:00:00	02:00:00	10	5	Delete
3/11/2015	01:00:00	02:00:00	10	5	Delete
3/12/2015	01:00:00	02:00:00	10	5	Delete

12

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Fig 5: Instructor can delete Appointments for a day

Appointments are shown for all the days to the instructor. The beauty of this feature is if the Instructor is busy for any day **he can delete appointments for only that day** and the appointments on that day will be not be shown to students.

The Campus Network
Home
Requests
Performance
Dropdown
Logout

Request Appointment

Request Appointment

Select Appointment Date

Select Professor

BaekYoungChoi

Select Appointment Time

01:00:00 pm to 02:00:00 pm

Select Appointment Type

Question

Description

intiki vellaccha

Request Appointment

Appointment Requested Successfully

Fig 6: Student Requesting Appointment

Student can request appointment from any of his Instructor. Only the Instructor of the courses registered by the student is displayed to him. This request will be **pushed to the respective Instructor**.

The Campus Network
Home
Requests
Performance
Dropdown
Logout

Appointment Requests

AppointmentId	SSO	StudentName	AppointmentDate	AppointmentTime	AppointmentType	Description		
1010	16186322	Goutham Donthu	3/2/2015	01:00:00 pm to 02:00:00 pm	Emergency	fdgfsd	Approve	Reject
1011	16186322	Goutham Donthu	3/11/2015	01:00:00 pm to 02:00:00 pm	Enrollment	Consent	Approve	Reject
1012	12426434	Sumanth Gunda	3/10/2015	01:00:00 pm to 02:00:00 pm	Enrollment	Consent	Approve	Reject

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Fig 7: Instructor's view of Appointments

This is the page showing all the appointment requests came to the Instructor by students. Instructor **can approve or reject** the appointment and the result will be shown in student's page.

The Campus Network
Home
Requests
Performance
Dropdown
Logout

Request Appointment
Check Status

AppointmentId	Appointment Date	Instructor Name	Appointment Time	Appointment Type	Description	AppointmentStatus	
9	3/3/2015	BaekYoungChoi	01:00:00 pm to 02:00:00 pm	Enrollment	consent	Approved	Cancel Appointment
10	3/3/2015	BaekYoungChoi	03:00:00 pm to 04:00:00 pm	Enrollment	xfxfd	Rejected	Cancel Appointment
1010	3/2/2015	BaekYoungChoi	01:00:00 pm to 02:00:00 pm	Emergency	fdgfsd	Pending	Cancel Appointment
1011	3/11/2015	BaekYoungChoi	01:00:00 pm to 02:00:00 pm	Enrollment	Consent	Pending	Cancel Appointment
1013	3/12/2015	BaekYoungChoi	01:00:00 pm to 02:00:00 pm	Question	intiki vellaccha	Pending	Cancel Appointment

Fig 8: Student's view of his Appointment Status

Student can view status all his Appointments. You can see color variation in cancel appointment button. **Dark blue** cancel appointment button indicates that Instructor did not see his request so that student himself can cancel his request. **Light blue** indicates that Instructor already took decision about appointment.

The Campus Network
Home
Requests
Performance
Dropdown
Logout

Assigned Courses Progress

Course Progress

Course Id : CS551MT CourseName : Software Methods and Tools

Course Id : CS551NA CourseName : Network Architecture

Check Schedules

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Fig 9: Course Completion Progress

Bar indicates the progress of course completion dynamically

The Campus Network
Home
Requests
Performance
Logout

Assigned Courses Progress
Check Schedules

Assigned Courses

CourseId	CourseName	StartDate	EndDate	Credits	
CS551MT	Software Meathods and Tools	1/20/2015	5/20/2015	3	Get Schedule
CS551NA	Network Architecture	1/20/2015	5/20/2015	3	Get Schedule

Course Schedule For : CS551MT

Date	Topic	Assignment	AssignmentDeadline
1/20/2015	Course Introduction	No Silver Bullet	1/26/2015
1/22/2015	Software Development Process and Activities		
1/27/2015	Lab 1	Assignment 1	2/2/2015
1/29/2015	UML Modelling 1		
2/3/2015	Lab 2	Assignment 2	2/9/2015
2/5/2015	UML Modelling 2		

Fig 10: Assigned courses for Instructor

Here Instructor can see what all **courses assigned for him** and details of those courses. When he choose getschedule button the schedule is displayed below as shown in this figure.

The Campus Network
Home
Requests
Performance
Logout

Upload Marks

Upload Marks

Select Course
CS551MT

Select Type Of Assessment
Assignments

Select Assessment
Assignment 8

Browse For File
Choose File No file chosen

Upload Marks

Fig 11: Uploading marks

Here Instructor can upload student marks. Based on the type of assessment selected **assessment options will be changed**. For example in type of assessment Assignments are

selected so in select assessment drop down list only assignments are shown. Instructor should add respective excel sheet for uploading marks.

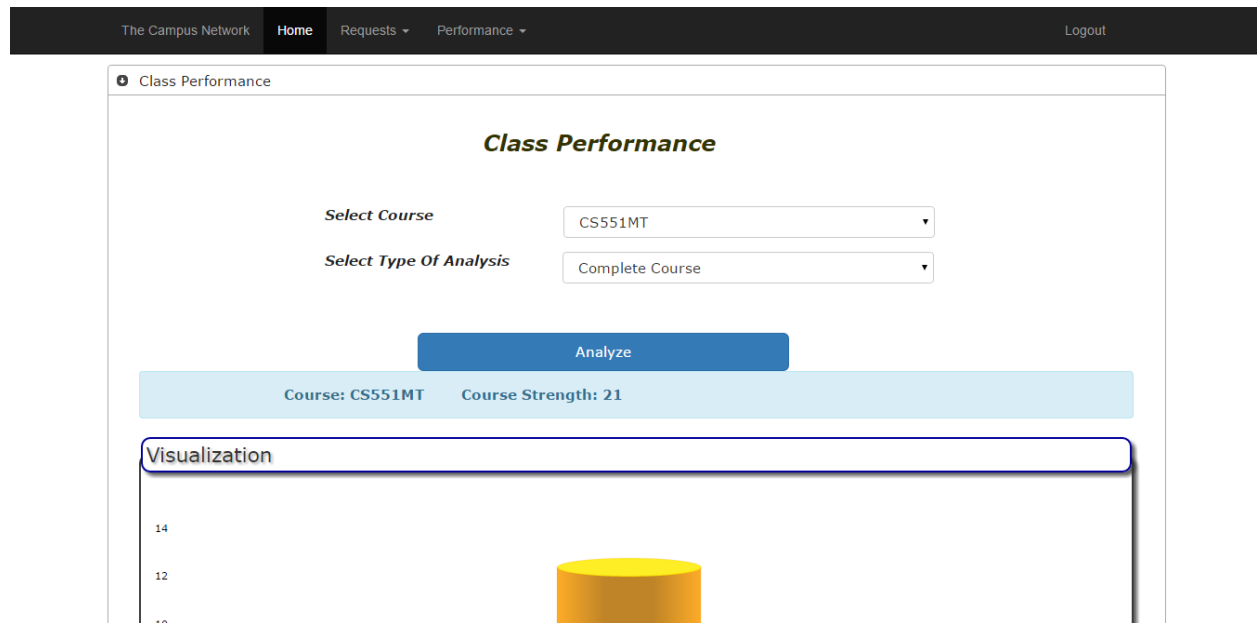


Fig 12: Seeing class performance

Here Instructor can see the performance of class

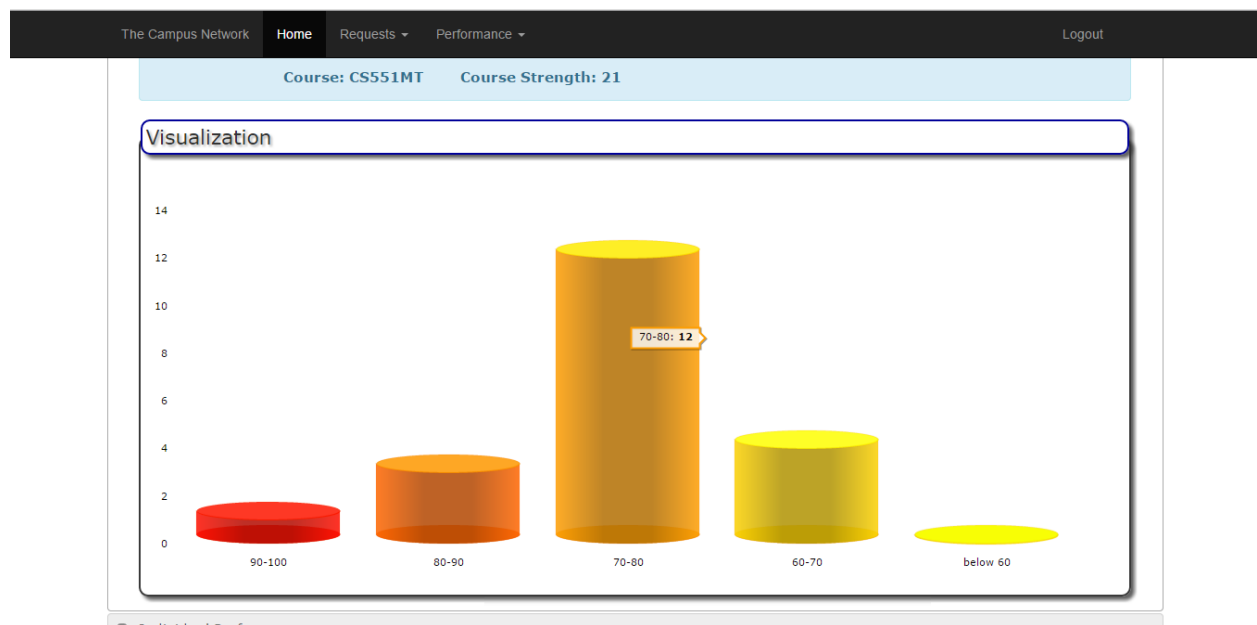


Fig 13: class performance

Class performance for complete course is graphically represented

The Campus Network
Home
Requests
Performance
Logout

Individual Performance

Individual Performance

Select Course
CS551MT

Enter Student Id
12426434

View Performance

Performance For Course: Label

CourseId	TopicName	TotalMarks	MarksObtained	Percentage	Comments
CS551MT	Assignment 1	100	100	100	Good
CS551MT	Assignment 2	100	90	90	Good
CS551MT	Assignment 3	100	100	100	Well Done
CS551MT	Assignment 4	100	98	98	Well Done
CS551MT	Lab 1	100	96	96	Good Work keep it up
CS551MT	Lab 2	100	88	88	Good Work keep it up
CS551MT	Lab 3	100	96	96	Good Work keep it up
CS551MT	Lab 4	100	100	100	Good Work keep it up
CS551MT	Lab 5	100	90	90	Good Work keep it up

Fig 14: check individual performance

Instructor can see individual student performance by selecting respective student ID

The Campus Network
Home
Requests
Performance
Logout

Course Progress And Important Dates

Important Dates

CS551MT	Assignment 5	4/15/2015	View
CS551MT	Assignment 7	4/27/2015	View

Upcoming Assessments

CS551MT	Final Exam	5/11/2015	View
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Course Progress

Course Id : CS551MT CourseName : Software Methods and Tools

Course Id : CS551NA CourseName : Network Architecture

Course Plan

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Fig 15: Student's view of course progress

This is the page showing course progress and all important assessments for students. The **works for the coming two weeks** will be displayed to the students in important date's panel. In upcoming assessments **next exam** will be displayed.

The Campus Network
Home
Requests
Performance
Logout

Course Progress And Important Dates
Course Plan

Enrolled Courses

CourseId	CourseName	StartDate	EndDate	Credits	
CS551MT	Software Meathods and Tools	1/20/2015	5/20/2015	3	Get Schedule
CS551NA	Network Architecture	1/20/2015	5/20/2015	3	Get Schedule

Course Schedule For : CS551MT

Date	Topic	Assignment	AssignmentDeadline
1/20/2015	Course Introduction	No Silver Bullet	1/26/2015
1/22/2015	Software Development Process and Activities		
1/27/2015	Lab 1	Assignment 1	2/2/2015
1/29/2015	UML Modelling 1		

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Fig 16: Student's view of his enrolled courses

Student viewing what courses he enrolled and can get schedule for his course

The Campus Network
Home
Requests
Performance
Logout

View Performance

Select Course
CS551MT
View Performance

Performance For Course: CS551MT

CourseId	TopicName	TotalMarks	MarksObtained	Percentage	Comments
CS551MT	Assignment 1	100	93	93	Not Bad
CS551MT	Assignment 2	100	100	100	Not Bad
CS551MT	Assignment 3	100	90	90	Good
CS551MT	Assignment 4	100	90	90	Good
CS551MT	Lab 1	100	92	92	Keep it up
CS551MT	Lab 2	100	81	81	Keep it up
CS551MT	Lab 3	100	92	92	Keep it up
CS551MT	Lab 4	100	95	95	Keep it up
CS551MT	Lab 5	100	95	95	Keep it up
CS551MT	Lab 6	100	98	98	Keep it up
CS551MT	Lab 7	100	85	85	Keep it up
CS551MT	Lab 8	100	93	93	Keep it up
CS551MT	Mid Term	30	23	76	Keep it up

Fig 17: Student can view his performance

Student can check all his scores and respective comments by Instructor

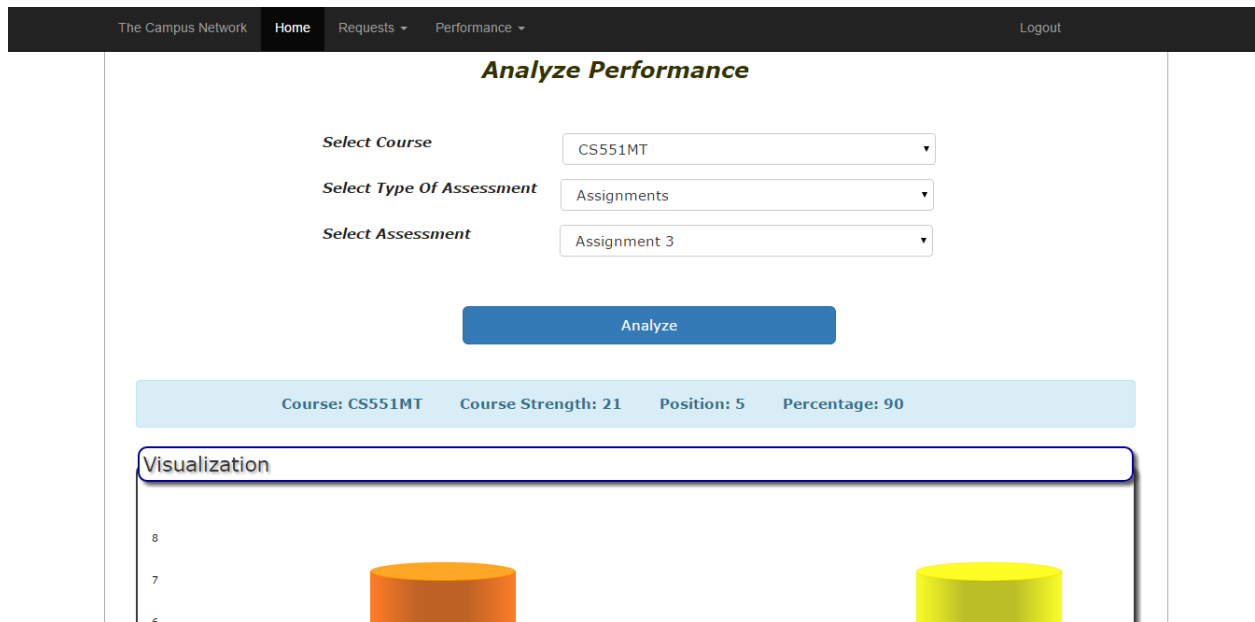


Fig 18: Student can analyze his performance

Student can analyze his performance in class and he can **check his position** in particular class

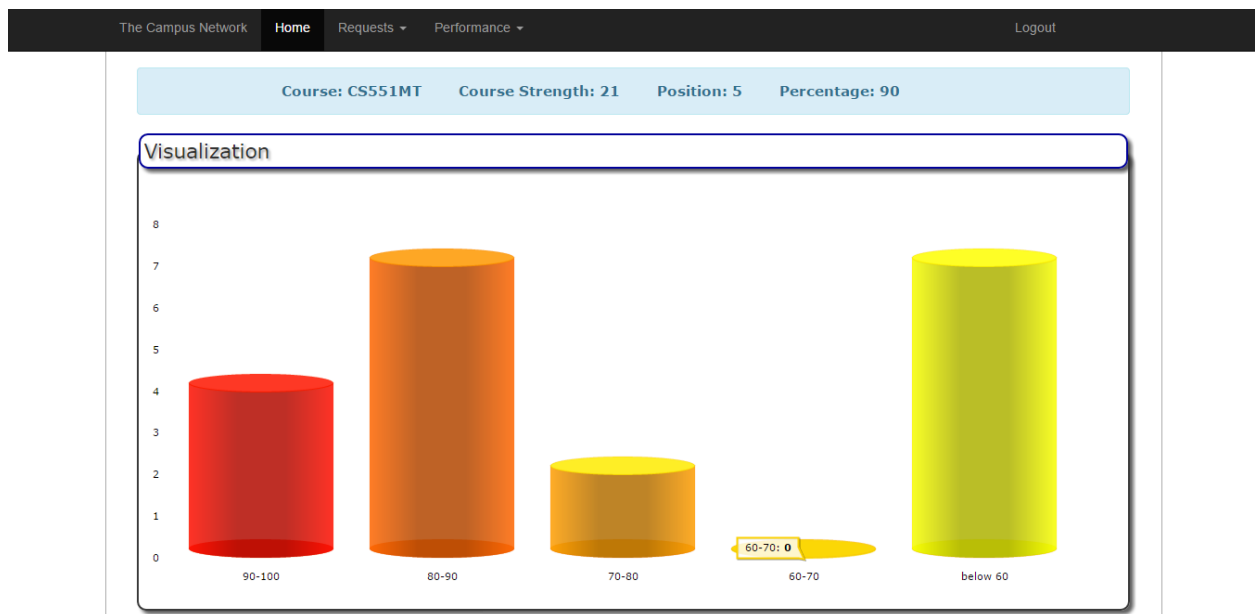


Fig 19: Graphical representation of student's performance

This is the graphical representation of all students' performance. If you take your **mouse pointer on to the bar** number of students scored in that level will be shown to you.

The Campus Network
Home
Requests
Course Plan
Performance
Attendance
Logout

Set Attendance

Set Attendance

Select Course

--SELECT--

Select Date

From Date

Latitude

39.0378538

Longitude

-94.585208

Duration

Duration in Minutes

Set Attendance

List of Attendance

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Fig 20: Set Attendance

This page will allow Instructor to set the attendance for that course. It takes the **latitude and longitude** positions such that students who are outside the class cannot mark their attendance.

The Campus Network
Home
Requests
Course Plan
Performance
Attendance
Logout

Set Attendance

List of Attendance

CourseId	AttendanceDate	Latitude	Longitude	RandomCode	StartTime	EndTime		
CS551MT	4/30/2015	39	-95	WPOWSDBQ	11:01:02 AM	11:31:02 AM	Generate Attendance	Delete
CS551MT	5/1/2015	39	-95	ADEITDIO	10:41:02 PM	10:43:02 PM	Generate Attendance	Delete
CS551MT	5/2/2015	39	-95	ERBLFRSS	10:43:11 PM	10:45:11 PM	Generate Attendance	Delete

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Fig 21: List of Attendance

Generate Attendance option helps instructor to **mark absent** for those students who failed to mark the attendance on a particular day. He can also delete the attendance for that particular day.



Fig 22: Analysis of whole class attendance

Here Instructor can analyze attendance for whole class for a particular day. If we take the **cursor on to the bar** it shows the number of students

The screenshot shows the 'Individual Attendance' section of a web application. It has a navigation bar with 'The Campus Network', 'Home', 'Requests', 'Course Plan', 'Performance', 'Attendance', and 'Logout'. Below this, there's a 'Class Attendance' tab and an 'Individual Attendance' sub-tab. The main content area is titled 'Individual Performance'. It contains a form with 'Select Course' (CS551MT) and 'Enter Student Id' (12426434). A blue 'View Performance' button is below the form. Below the button is a table showing attendance records.

AttendanceDate	AttendanceStatus
4/30/2015	Present
5/2/2015	Absent

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Fig 23: Individual Attendance

Here Instructor can track the attendance for particular student by providing his ID. By this way he can check students attendance individually.

The Campus Network

Home

Requests

Performance

Attendance

Logout

Mark Attendance

Mark Attendance

Select Course

--SELECT--

Select Date

Select Date

Latitude

39.0378482

Longitude

-94.5852259

Code

Attendance Code

Mark Attendance

Check Attendance

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Fig 24: Mark Attendance

Student can mark his attendance by only providing the random **password** given by the Instructor and if they are in that particular **location** only

The Campus Network

Home

Requests

Performance

Attendance

Logout

Mark Attendance

Check Attendance

CourseId	AttendanceDate	AttendanceStatus
CS551MT	4/30/2015	Present
CS551MT	5/2/2015	Present

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Fig 25: Student can check his attendance

Student can check his attendance overall the course. This helps him to know how many classes he missed so that he can take care of his attendance.

The Campus NetworkHomeRequestsCourse PlanPerformanceAttendanceLogout

Add Course Plan

Add Course Plan

Select Course--SELECT--

Browse For FileChoose FileNo file chosen

Upload Schedule

Edit Course Plan

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Fig 26: Course plan

Instructor can **add their course plan** by uploading plan through excel sheet. It is easy for them to add their course plan through this instead of maintaining a separate spread sheet for it.

The Campus NetworkHomeRequestsCourse PlanPerformanceAttendanceLogout

Add Course Plan

Edit Course Plan

Edit Course Plan

Select Course--SELECT--

Edit Schedule

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Fig 27: Edit course plan

Instructor can edit their course plan by choosing edit schedule option. This helps them to **change the schedule at any time** based on the circumstances.

VI. TESTING

To make sure the quality of the software is good testing is a critical component of the development. Software testing is done to ensure quality and it is also the review of the design and specification.

NUnit Testing:

This tool is used to unit test the application that is developed in C# ASP.Net. It is a Unit Testing Framework when the code that was written in C# can be tested.

The test cases that were designed to test the Campus Network Application are:

- **MasterPage()**

This function test for the successful loading of the master page when a content page has been inherited from the master page.

- **HomePage()**

This function tests for successful loading of the dashboard of both the student and instructor after successful loading.

This function also tests whether the session variables are stored or not.

- **LoginPage()**

This function tests for successful loading of the login page and also tests for all the validation controls on the page. This function tests whether the appropriate error messages are being displayed.

- **Validations()**

This function test whether the validations are working properly before the page is sent back to the server.

- **ManageAppointment()**

This function tests whether approve or reject works properly and the web page redirected to expected page or not

- **ApplyAppointment()**

This function tests whether after applying appointments Instructor gets the request or not

- **AppointmentRequest()**

This function tests whether appointment request came to respective Instructor or not

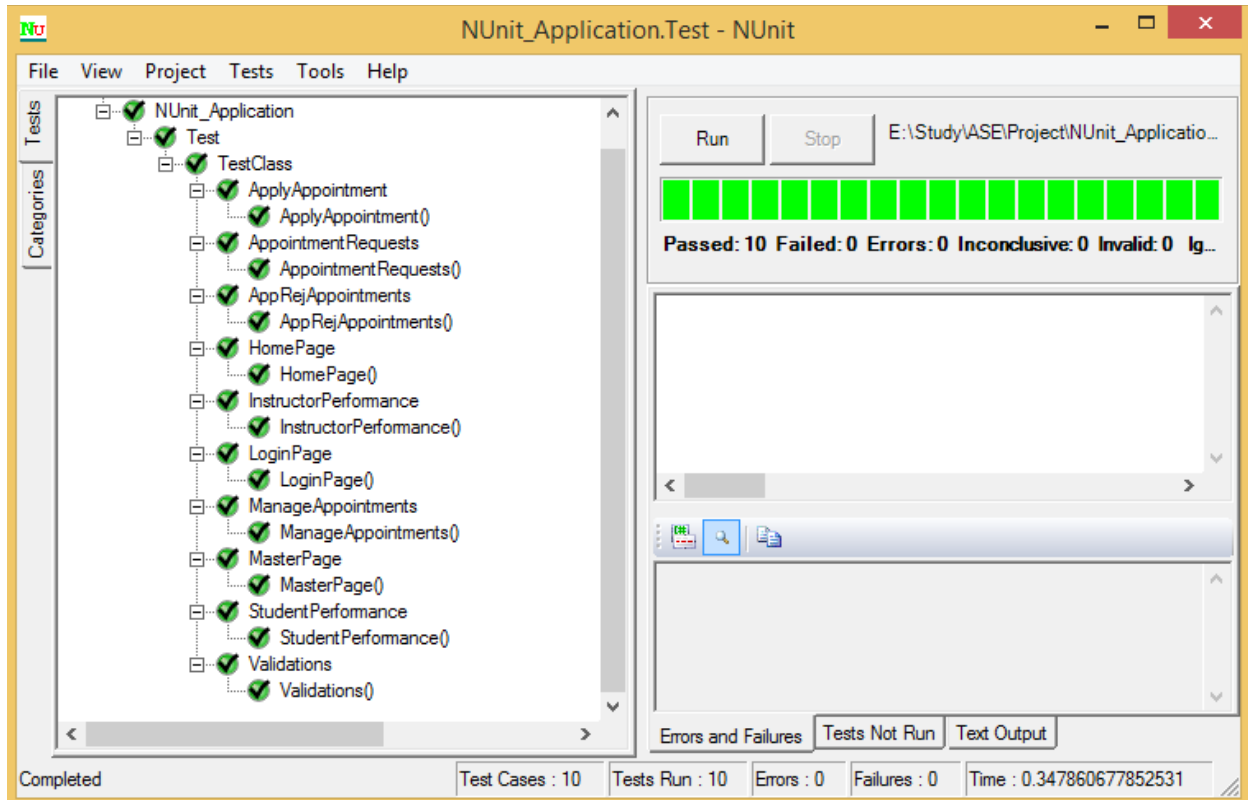
- **InstructorPerformance()**

This function tests for all the validations in performance module on the instructor login.

- **AppointmentRequest()**

This function tests for all the validations in th performance module on the student module.

Screen shot for NUnit Testing:



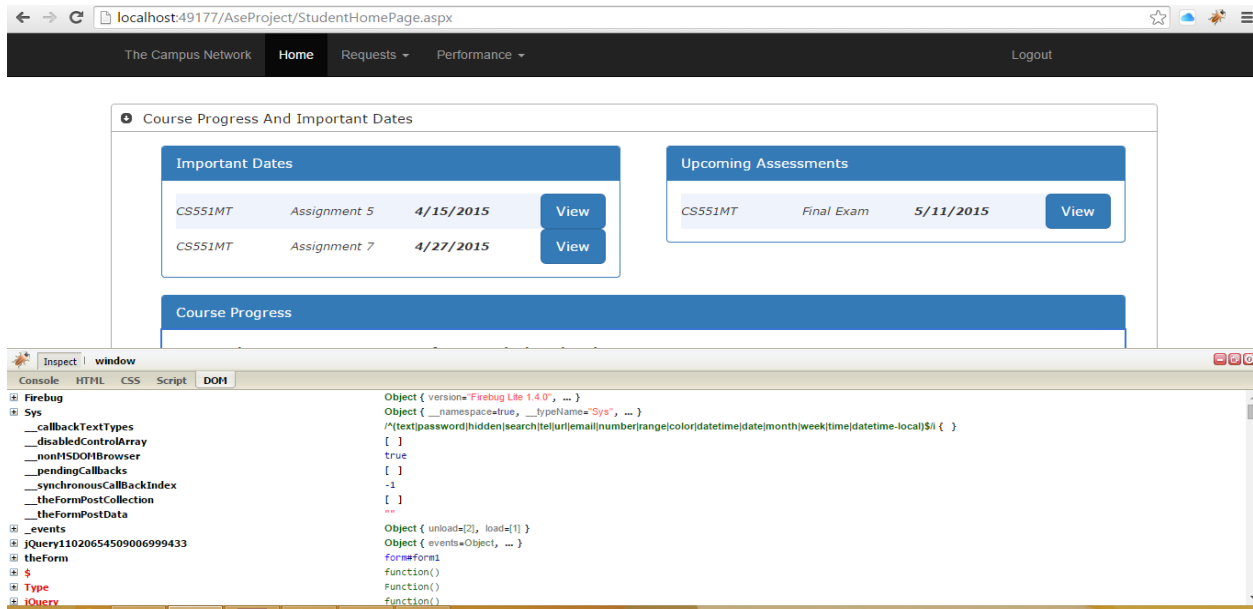
Implementation of Test Cases

VII. PERFORMANCE TESTING

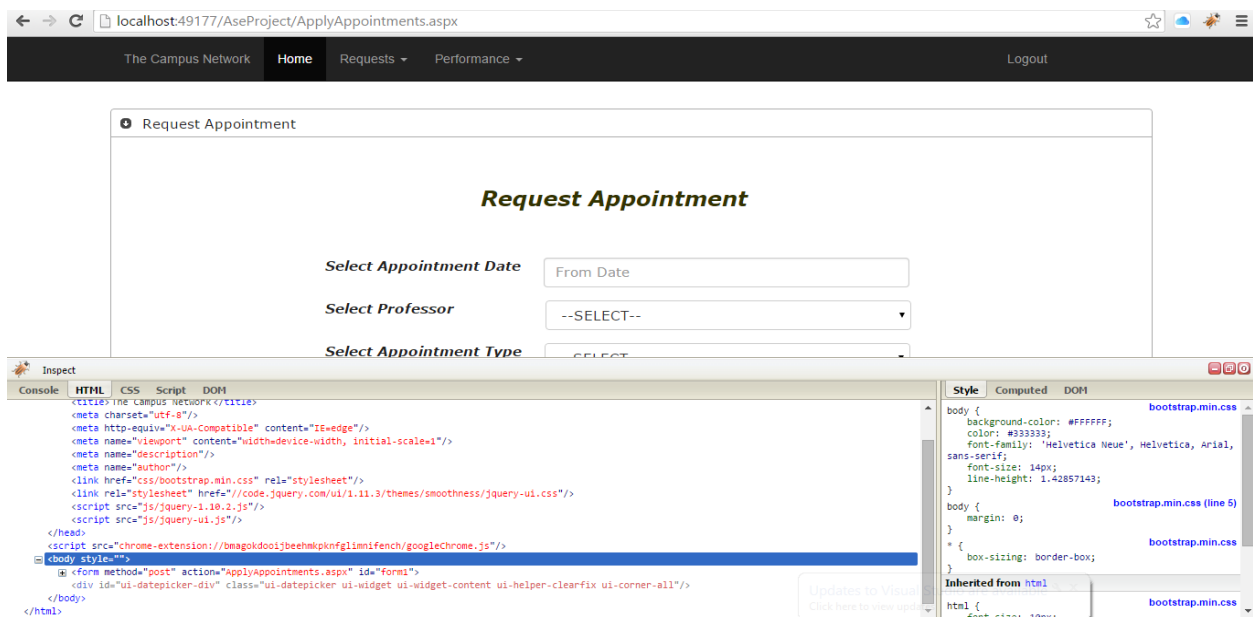
- **Firebug Testing:**

It is a web browser extension that will facilitate the live debugging and also monitoring of any websites

We have tested student home page and apply appointments page using firebug for this Increment.



Firebug Testing for Student Home Page



Firebug Testing for Apply Appointments Page

- **Page Speed Insights:**

It is now available as a google chrome extension to test the load time of the page and also it gives the suggestions for the page so that it can be made faster.

We have tested Student Home Page and Apply Appointments page using Page Speed Insights to analyze the speed of the pages and get some suggestions

The screenshot displays the Google Chrome DevTools interface with the PageSpeed Insights extension. The top navigation bar includes 'The Campus Network', 'Home', 'Requests', 'Performance', and 'Logout'. The 'Inspect' panel is open, showing the HTML structure of the page, with the 'Console' tab selected. The 'Style' panel on the right shows the CSS rules for the 'body' element, including 'box-sizing: border-box;'. The 'PageSpeed' panel at the bottom provides an 'Overview' of suggestions, categorized into 'Minimize payload (5)' and 'Minimize delay in page load (2)'. The 'Suggestion Summary' section lists specific recommendations, such as 'Minimize payload' (with sub-points like 'Enable compression', 'Minify JavaScript', 'Minify CSS', 'Optimize images', 'Minify HTML') and 'Minimize delay in page load' (with sub-points like 'Avoid bad requests', 'Put CSS in the document head').

Overview

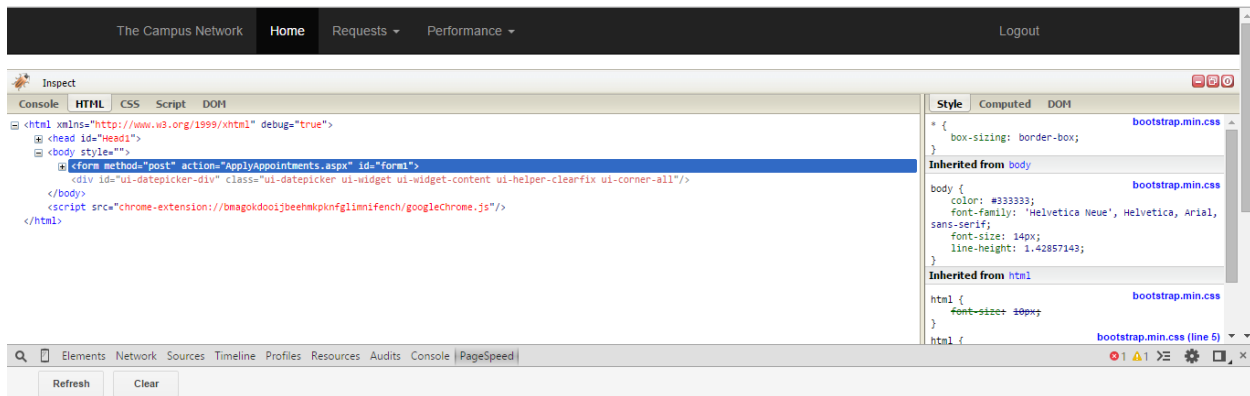
- ☒ **Minimize payload (5)**
 - Enable compression
 - Minify JavaScript
 - Minify CSS
 - Optimize images
 - Minify HTML
- ☒ **Minimize delay in page load (2)**
 - Avoid bad requests

Suggestion Summary

Click on the rule names to see suggestions for improvement.

- Minimize payload**
 - (H)Enable compression, (H)Minify JavaScript, (M)Minify CSS, (L)Optimize images, (L)Minify HTML
- Minimize delay in page load**
 - (L)Avoid bad requests, (L)Put CSS in the document head
- Other**
 - (M)Enable Keep-Alive, (M)Defer parsing of JavaScript, (L)Leverage browser caching, (L)Specify a cache validator

Page Speed Insights for Student Home Page



Refresh Clear

Already done! (17)

- Avoid CSS @import
- Avoid a character set in t...
- Avoid landing page redire...
- Combine images into CS...
- Inline Small CSS
- Inline Small JavaScript
- Minimize redirects
- Minimize request size
- Optimize the order of sty...
- Prefer asynchronous res...
- Put CSS in the document

Suggestion Summary

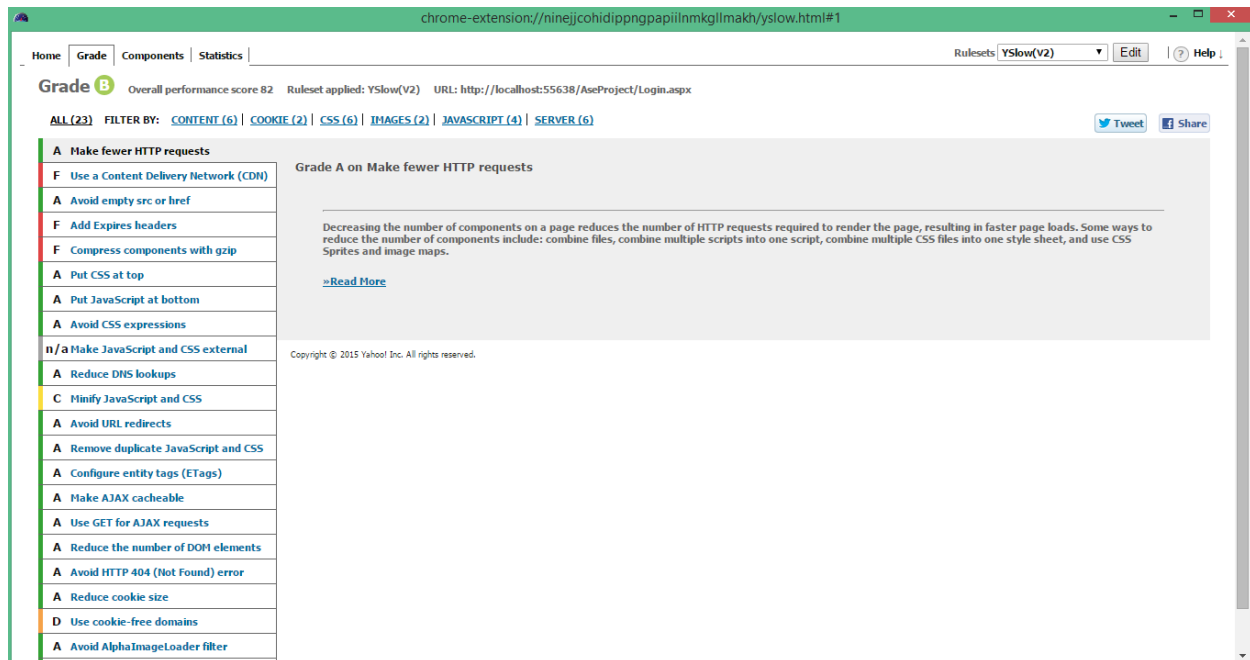
Click on the rule names to see suggestions for improvement.

- Minimize payload**
 - (H)Enable compression, (H)Minify JavaScript, (M)Minify CSS, (L)Optimize images, (L)Minify HTML
- Minimize delay in page load**
 - (L)Avoid bad requests
- Other**
 - (M)Enable Keep-Alive, (M)Defer parsing of JavaScript, (L)Leverage browser caching, (L)Specify a cache validator

Page Speed Insights for Apply Appointments page

YSlow analyzer for Web Page

- **YSlow Analyzer:**
 - It Grades web page based on one of three predefined ruleset or a user-defined ruleset
 - It offers suggestions for improving the page's performance
 - Summarizes the page's components
 - Displays statistics about the page



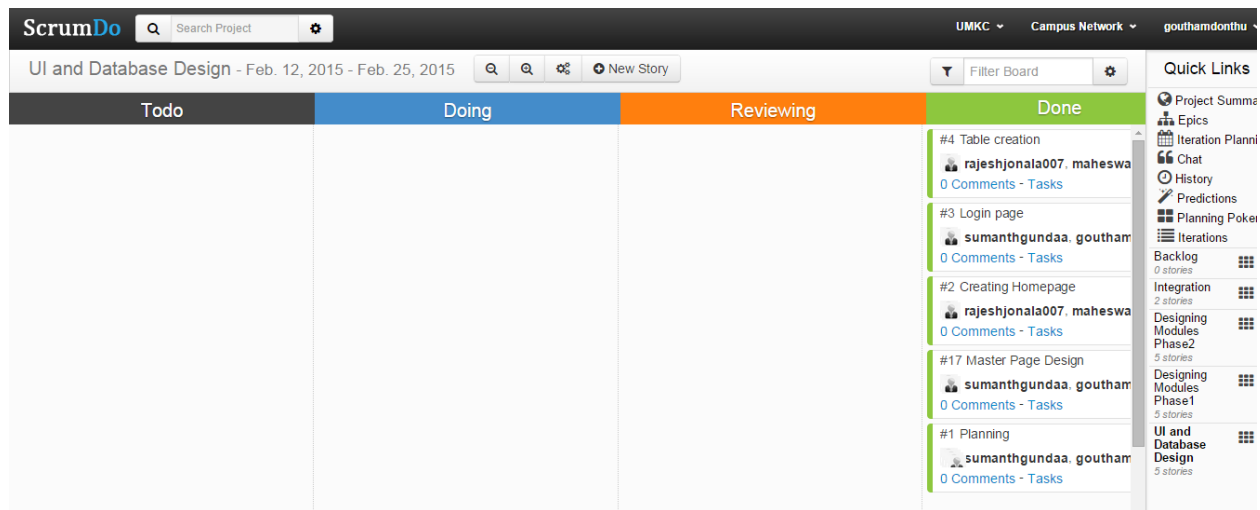
We analyzed our web page through it. YSlow **graded B** for our web page and overall performance score is **82**.

VIII. DEPLOYMENT

Project Scrum Do Link:

<http://www.scrumdo.com/projects/project/campus-network/iteration/121658/board>

Screenshots:



ScrumDo

Search Project

UMKC Campus Network gouthamdonthu

Designing Modules Phase1 - Feb. 26, 2015 - March 18, 2015

Filter Board

Quick Links

Todo	Doing	Reviewing	Done
			<div>#18 Unit testing for Appointment Request Module sumanthgundaa, goutham 0 Comments - Tasks</div> <div>#9 Unit Testing for home pages of student and instructor rajeshjona007, maheswa 0 Comments - Tasks</div> <div>#8 Home page for student rajeshjona007, maheswa 0 Comments - Tasks</div> <div>#7 Home page for Instructor rajeshjona007, maheswa 0 Comments - Tasks</div> <div>#6 Student page in Request Mod sumanthgundaa, goutham 0 Comments - Tasks</div> <div>#5 Instructor page in Request Mo sumanthgundaa, goutham 0 Comments - Tasks</div>

ScrumDo

Search Project

UMKC Campus Network gouthamdonthu

Designing Modules Phase2 - March 19, 2015 - April 8, 2015

Filter Board

Quick Links

Todo	Doing	Reviewing	Done
			<div>#14 Unit Testing for Performance Course Tracking sumanthgundaa, goutham 0 Comments - Tasks</div> <div>#13 Student page for Course Tra rajeshjona007, maheswa 0 Comments - Tasks</div> <div>#12 Instructor page for Course tr rajeshjona007, maheswa 0 Comments - Tasks</div> <div>#11 Student page for Performance Module sumanthgundaa, goutham 0 Comments - Tasks</div> <div>#10 Instructor page for performance module sumanthgundaa, goutham 0 Comments - Tasks</div>

Project Summary

Epics

Iteration Planning

Chat

History

Predictions

Planning Poker

Iterations

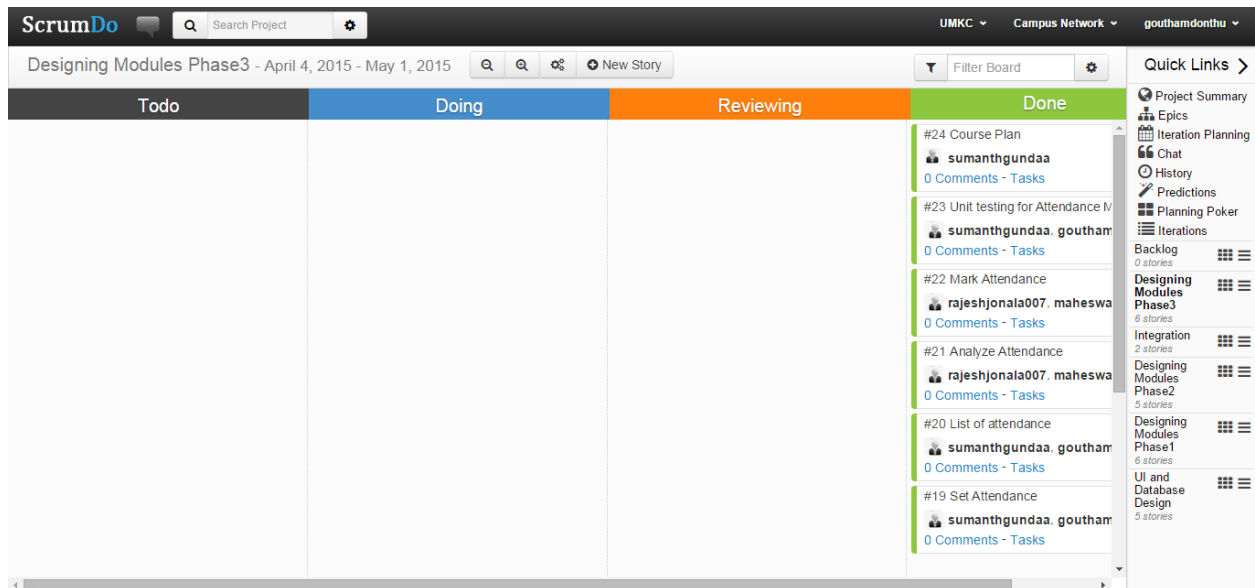
Backlog

Integration

Designing Modules Phase2

Designing Modules Phase1

UI and Database Design



GitHub Site URL:

<https://github.com/sumanthgundaa/ASE-Project>

Youtube URL:

<https://www.youtube.com/watch?v=VFoPULzk6M0>

IX. PROJECT MANAGEMENT

Implementation Status Report:

Work Completed:

Story 1: Planning

Description:

Whole Team participates in this story. Here we plan the whole structure of project like what features are we providing and how to implement them.

Responsibility:

Here the project scope and appropriate methods for completing the project is determined.

Time Taken: 6hours

Contributions: All team members equally participated in this story.

Story 2: Master Page Design

Description: Here we create Master page for our project

Responsibility: In this we create common structure for our project

Time Taken: 4 hours

Contributions: Sumanth and Goutham.

Story 3: Creating Home Page

Description: Here we design the Home Page for both Student and Instructor. Navigation in the Home Page changes based on the roles of the user.

Responsibility: Home Page will be designed and the Navigation bar will be changed based on the User Login.

Time Taken: 3hours

Contributions: Mahesh and Rajesh.

Story 4: Creating Login Page

Description: Here we design the login page for the portal.

Responsibility: All the Validations should be done from the database and respective stored procedures should be written to validate the user.

Time Taken: 6hours

Contributions: Sumanth and Goutham.

Story 5: Database Design

Description: All the tables will be created and also the stored procedures will be written.

Responsibility: Table Scripts are created and the sample data will be inserted into the database.

Time Taken: 5hours

Contributions: Mahesh and Rajesh.

Story 6: Instructor Home Page

Description: This is the homepage after Instructor login into his account. In this page he can see all the courses taught by him and corresponding schedule.

Responsibility: All Courses taught by the Instructor are displayed in his home page and the schedule is also available

Time Taken: 9hours

Contributions: Mahesh and Rajesh.

Story 7: Student Home Page

Description: This is the homepage for the student after he logged in. He can see what all courses he enrolled and the syllabus of respective courses. He can also view works to be done.

Responsibility: All Courses registered by the student are displayed in his home page

Time Taken: 8hours

Contributions: Mahesh and Rajesh.

Story 8: Instructor Page in Request Module

Description: We create page for instructor such that he can accept or reject the students request for appointment and he can view all the requests

Responsibility: All the requests are displayed in his page and he can accept or reject the request. After the reply from Instructor result is reflected in student page

Time Taken: 9hours

Contributions: Sumanth and Goutham.

Story 9: Student Page in Request Module

Description: Here student can request for an appointment with desired instructor and he can later view the status of the request

Responsibility: Instructors available timings are displayed in his page so that he can seek appointment. After student requests for appointment it is reflected in Instructors page that particular student is asking for his appointment.

Time Taken: 10hours

Contributions: Sumanth and Goutham.

Story 10: Unit Testing for Home Pages of Student and instructor

Description: Here we test the home pages independently such that they are working correctly according to our specifications without any bugs

Responsibility: Unit testing is done on home pages of student and Instructor

Time Taken: 4hours

Contributions: Mahesh and Rajesh.

Story 11: Unit Testing for Appointment Request Module

Description: Here we test the Instructor and Student pages in Appointment Request module such that they are working correctly according to our specifications without any bugs

Responsibility: Here we do the unit testing for student page and Instructors page in appointment request module. Our goal is to run this module without any bugs.

Time Taken: 5hours

Contributions: Sumanth and Goutham

Story 12: Unit Testing for Home Pages of Student and instructor

Description: Here we test the home pages independently such that they are working correctly according to our specifications without any bugs

Responsibility: Unit testing is done on home pages of student and Instructor

Time Taken: 4hours

Contributions: Mahesh and Rajesh

Story 13: Instructor page for performance module

Description: Here Instructor can track all the students performance and he can generate report of all the students

Responsibility: Instructor can track all the students' performance. We are providing data through excel sheet.

Time Taken: 15 hours

Contributions: Sumanth and Goutham

Story 14: Student page for Performance Module

Description: Here student can view his test scores and he can view his position in the class

Responsibility: Students score can be viewed by him and they are graphically represented

Time Taken: 15hours

Contributions: Sumanth and Goutham

Story 15: Instructor page for Course tracking

Description: Instructor can track the status of the course and he can generate a warning message to all the students about any assignment or project deadlines

Responsibility: Instructor can see how much course has been completed and he can see curriculum of course

Time Taken: 13hours

Contributions: Mahesh and Rajesh

Story 16: Student page for Course Tracking

Description: Here student can track the status of the course and they were eventually notified about their tasks

Responsibility: Student can see how much course has been completed and he can see curriculum of course

Time Taken: 16hours

Contributions: Mahesh and Rajesh

Story 17: Unit Testing for Performance and Course Tracking

Description: Here we test the modules independently such that they are working correctly according to our specifications without any bugs

Responsibility: Here we do the unit testing for student page and Instructors page in performance module. Our goal is to run this module without any bugs

Time Taken: 10hours

Contributions: Sumanth and Goutham

Story 18: Set Attendance

Description: Instructor can set the attendance. He should select course name, date and duration to set the attendance.

Responsibility: Portal identifies coordinate positions of the class room and if student is in that particular location can mark his attendance

Time Taken: 12hours

Contributions: Sumanth and Goutham

Story 19: Attendance List

Description: This belongs to Instructor's page. Here Instructor can check the attendance for any day.

Responsibility: There is an option called generate attendance which means if any students failed to attend the class they will be marked absent for that day.

Time Taken: 10hours

Contributions: Sumanth and Goutham

Story 20: Analyze Attendance

Description: In analyze attendance Instructor can check the whole class attendance and individual attendance

Responsibility: This helps Instructor to know who are the students having low attendance so that he can alert them about losing their grade

Time Taken: 15hours

Contributions: Rajesh and Mahesh

Story 21: Mark Attendance

Description: This belongs to student's side. Students can only mark their attendance if they are in classroom coordinates and by knowing code given by Instructor

Responsibility: Students can mark their attendance only if they are in that particular class and they can also check their overall attendance

Time Taken: 10hours

Contributions: Rajesh and Mahesh

Story 22: Unit Testing for Attendance Module

Description: Here we test the module independently such that it is working correctly according to our specifications without any bugs

Responsibility: Here we do the unit testing for student page and Instructors page in Attendance module. Our goal is to run this module without any bugs

Time Taken: 10hours

Contributions: Sumanth and Goutham

Story 22: Course Plan

Description: Instructor can add a plan for his course through an excel sheet and he can also edit the plan at any time

Responsibility: This feature helps Instructor to add his course plan himself to the portal. If Instructor wants to edit the course plan he can easily change it.

Time Taken: 15hours

Contributions: Sumanth

Future Enhancement:

Each university is maintaining a portal in which Students and Professors can login and do their tasks. But we designed a portal in such a way that it includes more enhanced features like Appointment scheduler, Performance tracker, Attendance tracker etc. Google drive is very useful for providing guidelines about the course to the students and students can post the links of the work done in that. So, as a future enhancement we will try to integrate Google drive with our portal.

