ASE PROJECT PLAN

Project Plan

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. Project Goals and Objectives(Revised)

- **Overall Goal:**

  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.

- **Specific Objectives(Problem Statement):**

  The main objectives of this portal is to provide a user friendly application between Student and Instructor. Student can submit a request to schedule an appointment from the Instructor and Instructor can grant permission or cancel the request based on the subject provided by the student.

  Both Students and Instructors can track the performance of the student and student can know his rank in the class at any time of the semester. They can check the attendance. Another interesting thing is students will be notified about the deadlines of any Projects, Assignments and Exams before a day through this system. Also Instructors had to use both google drive and blackboard system to manage the course and lab sessions. But all these features will be included in this system so that instructors and students does not check both google drive and blackboard system.

III. Project Background and Related Work:

The root of this project come from the University Intranet portals. Almost every University has Intranet portal for students and Instructors. But most of them does not seem interactive. The main emphasis of this project is to provide an interactive interface for both student and the instructor.

The similarities of this project include marking attendance, checking his performance.

The dissimilarities of this project include using google maps for marking attendance, interactive charts to display performance and student can compare his performance with others in an interactive way, Notification system where students will be notified with important deadlines, and requests can be made through portal for appointment with the professor.

IV. Proposed System:

1) Requirement Specification:

Functional Requirements:

- The portal has 3 logins Administrator, Instructor and Student.
- The project is divided into 5 modules
    1. Requests Module.
    2. Attendance Module.
    3. Performance Module.
    4. Course Tracking.
    5. Google Drive Integration

- **Request Module:**

  Here the Student will be able to login to the portal and request the Instructors for the appointment and manage his appointments. Instructor can view the requests and he can either accept or reject the requests.

- **Attendance Module:**

  Here the student can mark his attendance for the course as well as he can track his attendance history. Instructor will be able to track each and every student's attendance and he can generate and visualize the reports of the entire class.

- **Performance Module:**

  Here the student can login to the portal and view his performance for all the courses he registered in. Instructor can track all the student's performance in his course. He can generate reports and he can also visualize them. He can keep track students who does not perform well and allot special tuition hours to them.

- **Course Tracking:**

  Here both student and Instructor can track the status of the course and the students will be notified about all the important dates of the course. For Example students will get a remainder of the scheduled test 2 or 3 days prior to the test date.

➢ Google Drive Integration:

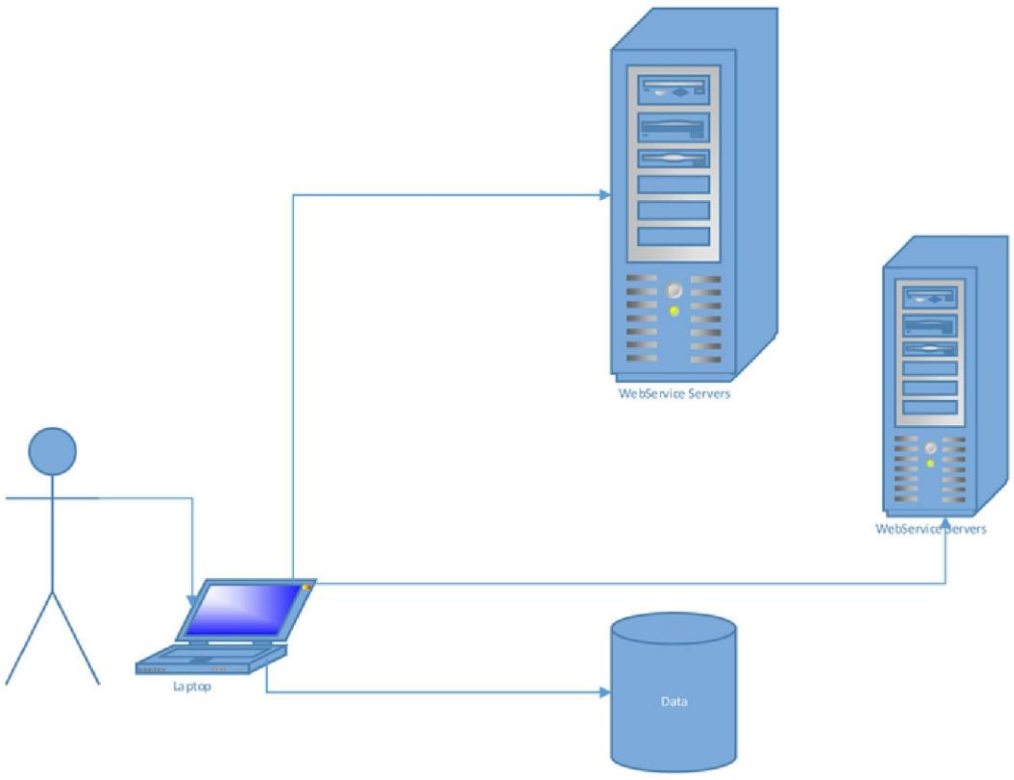
Here we use Google Drive API to integrate the functionalities of the google drive in the portal so that instructors and students does not need the access the google drive separately. All the functionalities will be included in the portal.

Non Functional Requirements:

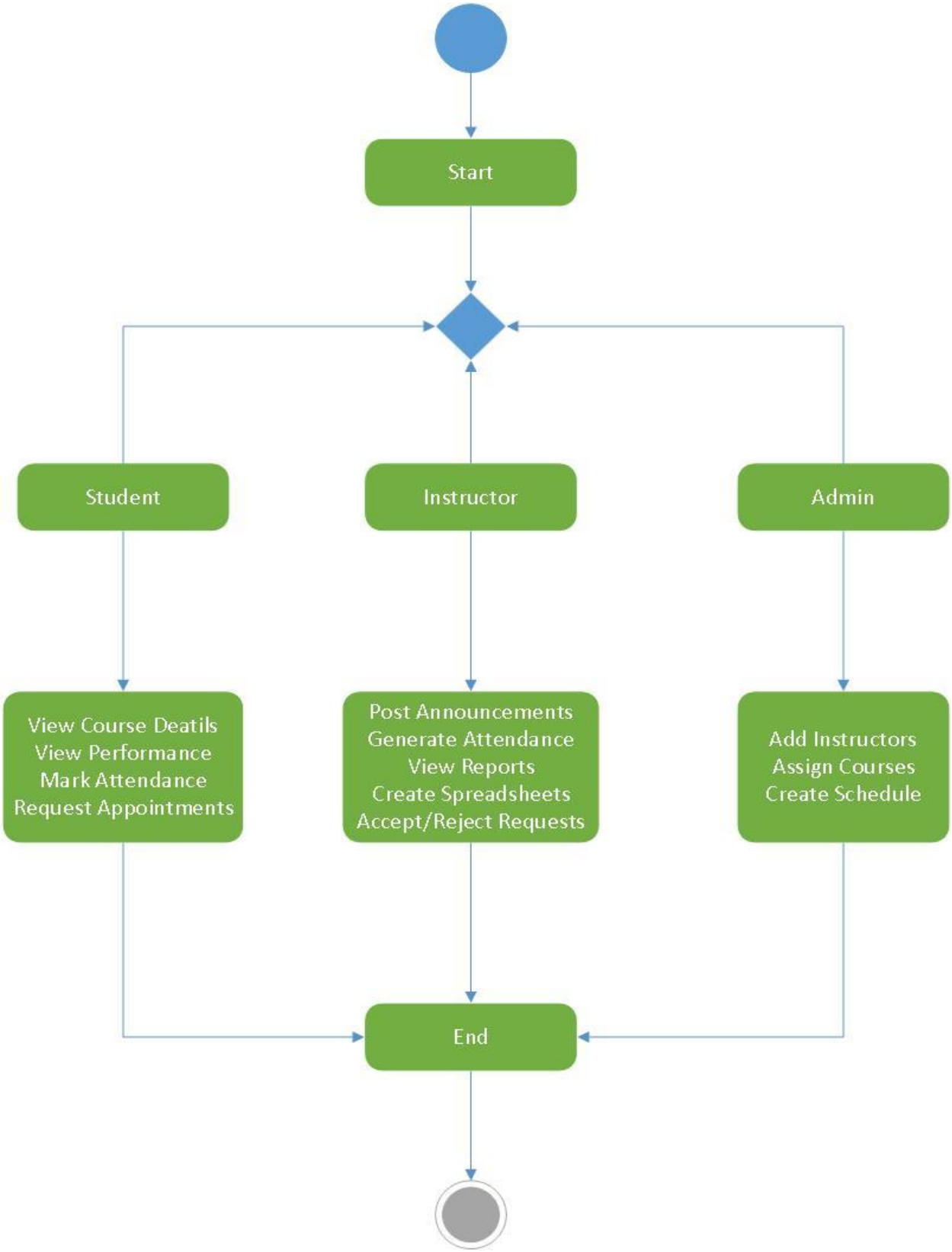
1. The portal has real time responses for all the activities performed by the student and the instructor.
2. All the inputs fields and the inputs given by the student and instructor will be validated in the portal.

2) Framework Specification:

Architecture Diagram:



Activity Diagram:



3) System Specifications:

Existing Services:

1. Name: Google Maps API

   Description: Used to check the student position before marking Attendance.

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

2. Name: Google Chart API

   Description: Used for visualizing the attendance and performance reports of students.

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

New Services to be built:

1. **Request Module:** This module provides student to request an appointment with the Instructor and Instructor can either accept or reject his request.

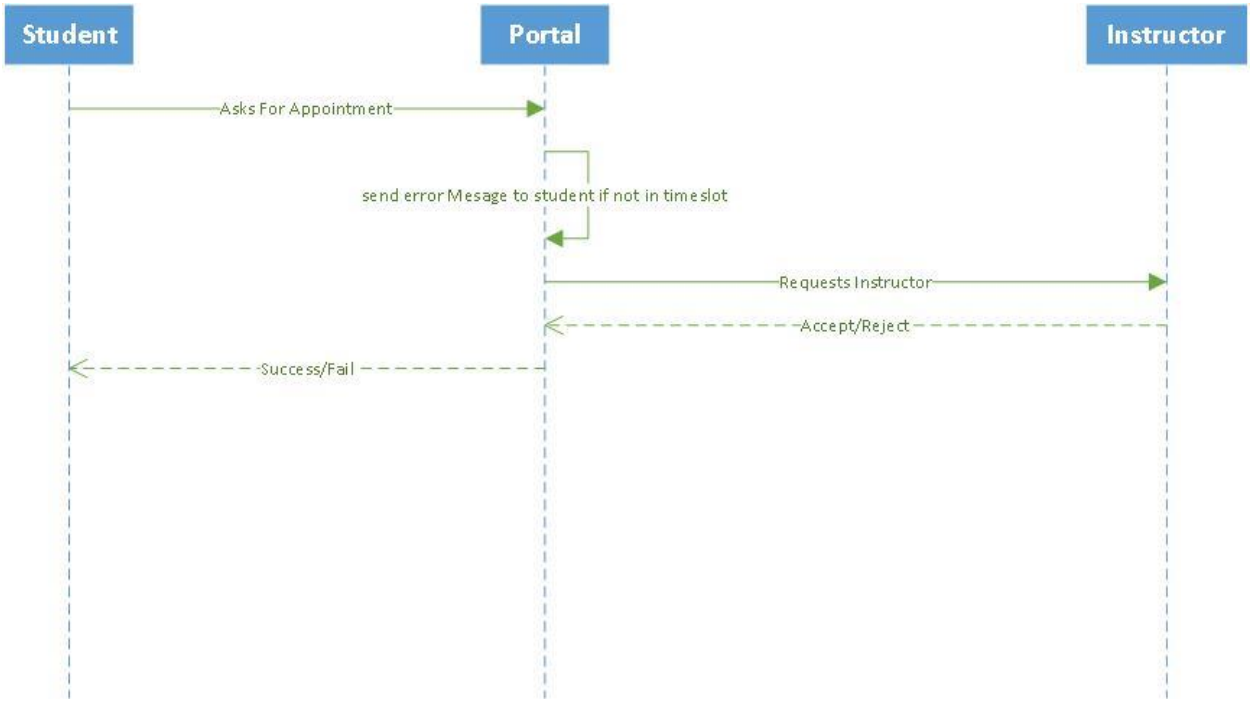
   Input: Student sends his appointment request with the professor.

   Output: Instructor get the requests and he can either accept or reject it.

   Exception: If the student requests for an appointment in the time slot that is not available with the instructor then it will return error message saying that it is invalid time slot.

   ### Class Diagram:

Sequence Diagram:

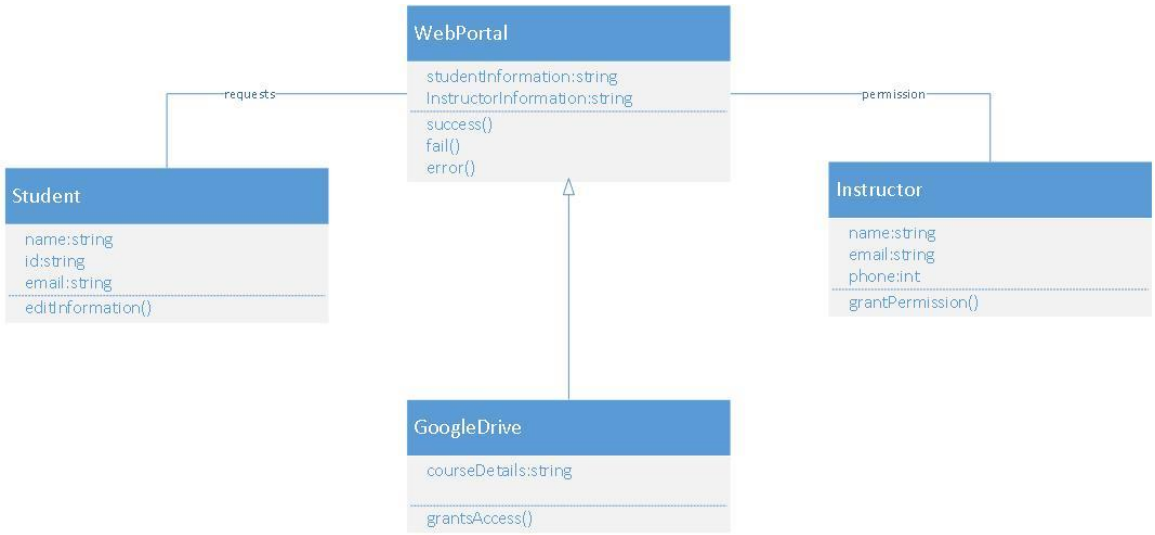


2. **Google Drive Integration:** This module will help students and instructors to use the google drive functionalities inside the web portal.

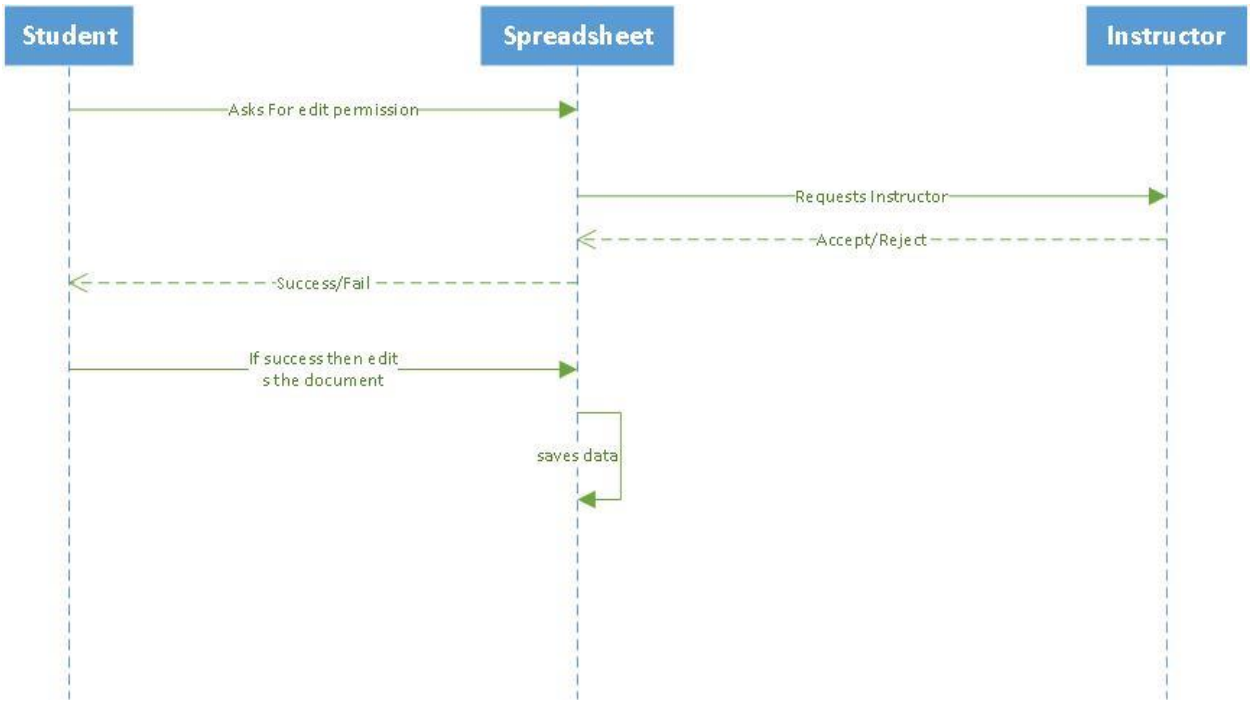
   Input: Professor can create a spreadsheet that can be accesses by all the students in the course.

   Output: Students can login to the portal and edit the spreadsheet at any time.

Class Diagram:



Sequence Diagram:

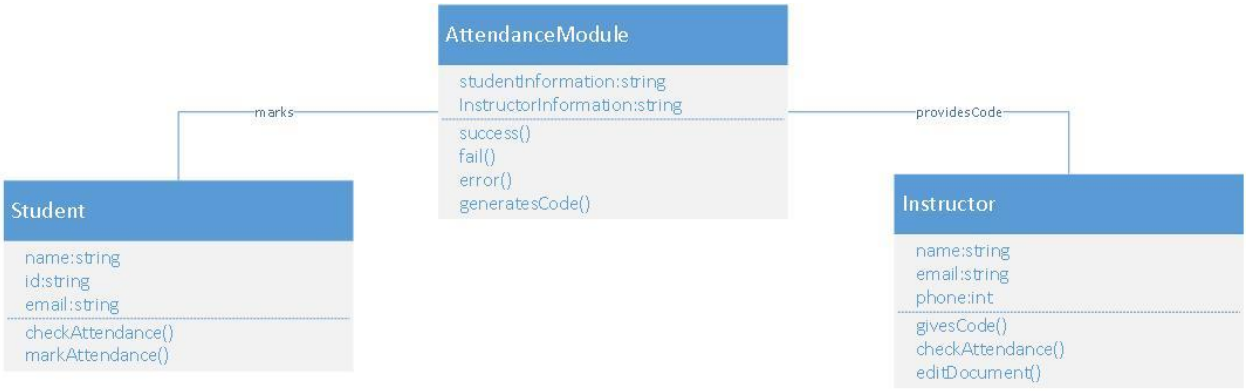


3. **Attendance Module:** This module will help students to mark the attendance from the portal.

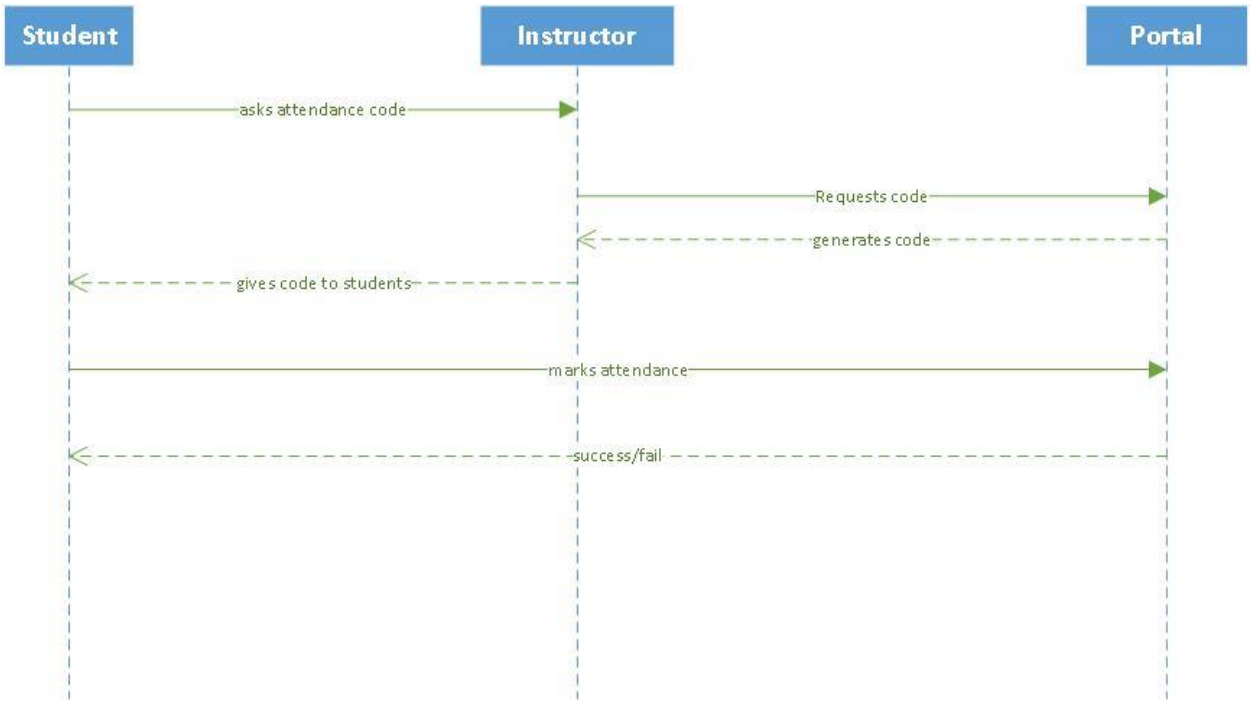
Input: Instructor can generate attendance code for students to mark their attendance.

Output: Students can mark their attendance with the code given by the instructor and the location that they are present in.

Class Diagram:

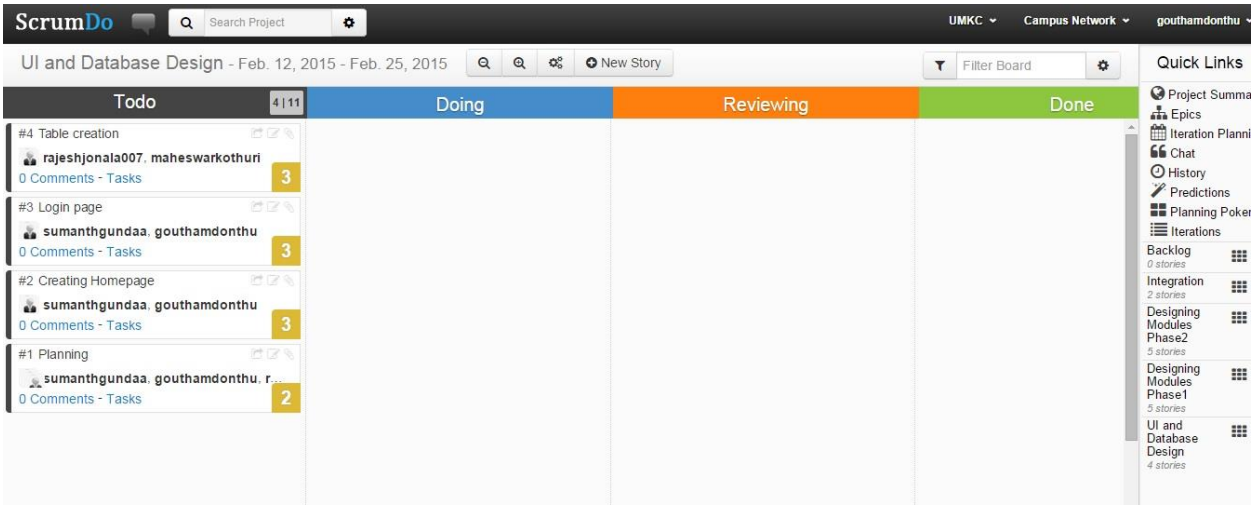


Sequence Diagram:

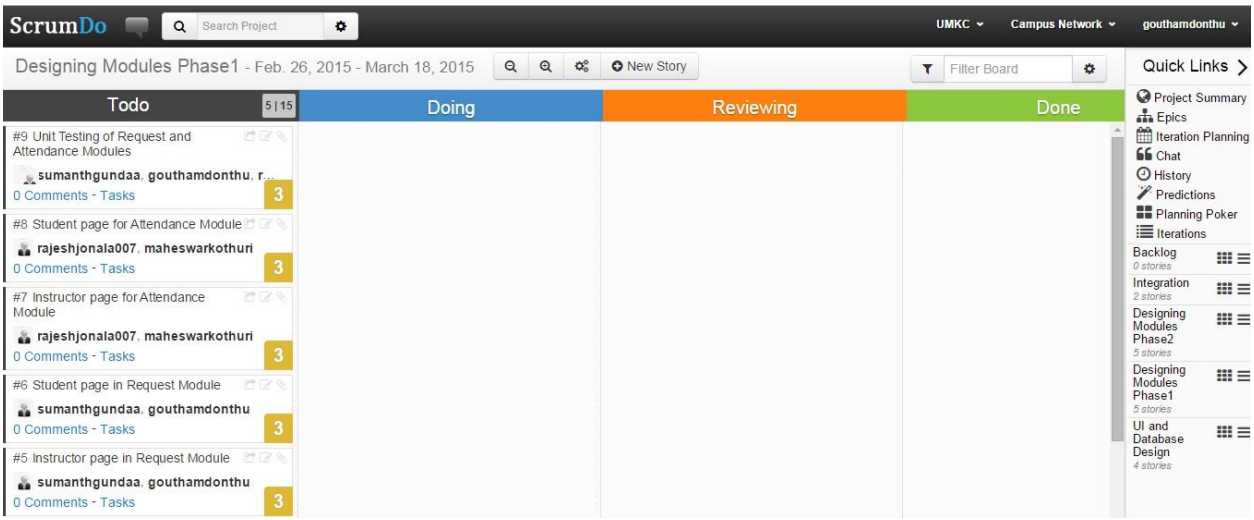


V. Plan by Services:

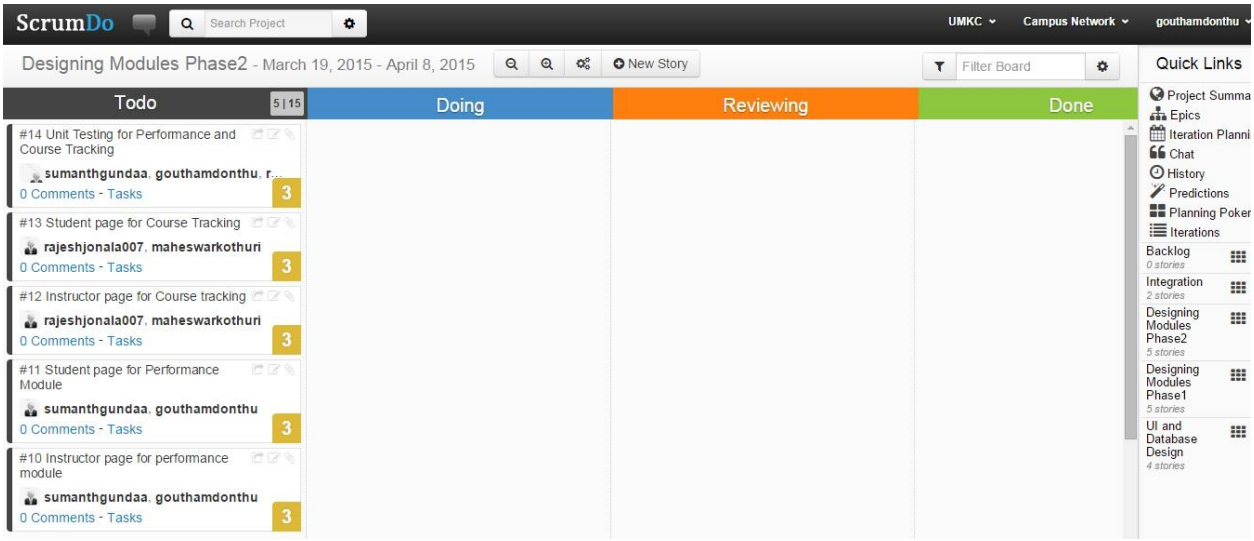
Iteration 1:



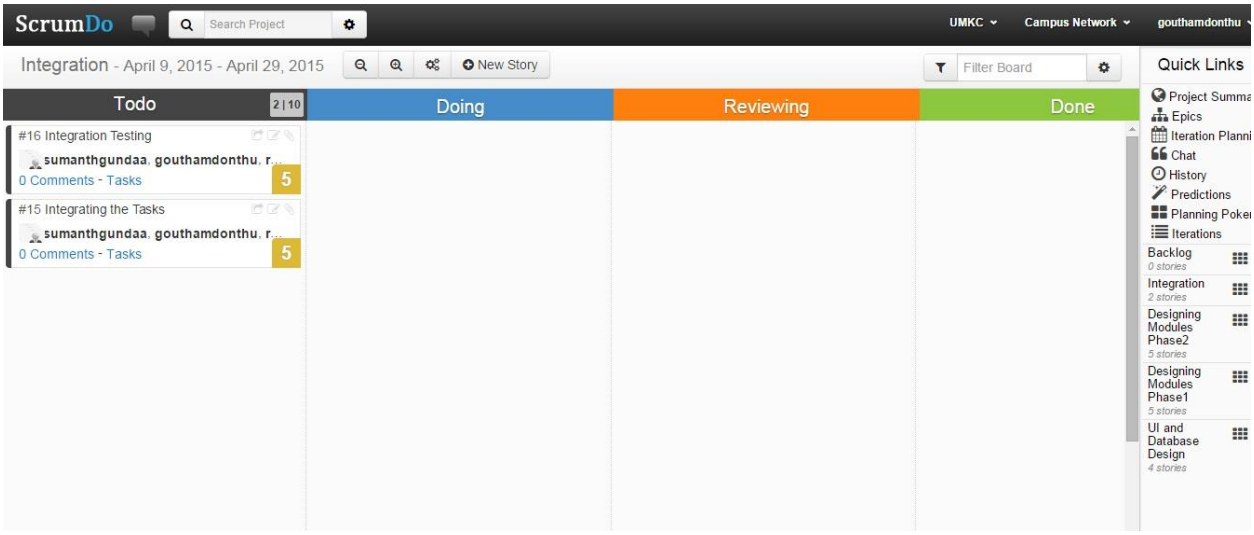
Iteration 2:



Iteration 3:



Iteration 4:



VI. Risk Management:

Technologies used for this application are:

For Front End design:

JQuery, Twitter Bootstrap, HTML5, CSS

For Server side Scripting and Web Services Development:

C# ASP.net

Database:

Microsoft SQL Server 2008

VII. Team Members: PG 7

Sumanth Gunda (Class ID: 21)
Goutham Donthu(Class ID:14)
Jonnalagadda Rajesh(Class ID:23)
Kothuri UmaMaheshwararao(Class ID:28)

VIII. Bibliography:

1. http://codecreator.org/projects/web-based-university-management-system-php/
2. https://blackboard.umkc.edu/webapps/portal/execute/tabs/tabAction?tab_tab_group_id=_1_1
3. http://www.w3schools.com/html/html5_intro.asp