



10/13/2017

Attendance & Feedback Portal

Project Increment 2 Report

School Matters!



Attend Today, Achieve Tomorrow

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Kranthi Dodla

Attendance & Feedback Portal

I. Introduction:

A Web portal is an exclusively designed web application that can provide information from different sources and the content that displayed varies depending upon the intended user and the intended purpose. UMKC Attendance & Feedback is a portal which can be used by UMKC students and professors. Students can submit the attendance and feedback through this portal upon enrolment to their respective courses for the semester. And professors can track the data related to each student's presence, feedback and suggestions from the portal.

II. Project Goal and Objectives:

Overall Goal: The existing UMKC Attendance Application enables students to submit code for attendance submission. This existing application can be enhanced as a web portal for the students to register. Depending upon the term and courses enrolled, students can easily have access to view the calendar, corresponding schedule for the date and submit the feedback for their presence. Each professor can pull out information regarding the attendance and feedback. So, the main agenda of this is to create a portal collectively which makes it flexible for students to submit the attendance & feedback instead of spending time in fetching links of the forms and submitting it externally.

Initially every intended user (student, professor and admin) must register and login to access the portal. Upon login, each student should submit the details of the enrolled courses for the semester. The student can then view a scheduled calendar which will display the courses enrolled in. On clicking on the date, the user can submit the feedback and attendance form. The professors can login to the portal and can download/export the sheets for the attendance and feedback depending upon the submission received from the students for a date. The admin has rights to view access and maintain the entire data of the application.

Specific Objectives: A Web Portal-UMKC Attendance and Feedback, for availing students and professors to easily submit and access the attendance and feedback forms for courses enrolled.

Specific Features:

1. Login/Register Pages: Student, Professor and Admin Login/Registration Pages.
2. Pop-up Dialog box for details regarding courses enrolled.
3. Scheduled calendar page which allows students to view their schedule for the courses enrolled and submit attendance/feedback forms.
4. Acknowledgement for attendance/feedback submissions.
5. Location and time capture through API's.
6. Sentimental Analysis for feedback submitted by students.
7. Auto generating the reports of attendance/feedback for the professors.
8. Database (MongoDB) to store the details.

Attendance & Feedback Portal

Enhancements:

- Detailed information on student holds.
- Automatic calculation of attendance percentage per student for each course attended.

Significance:

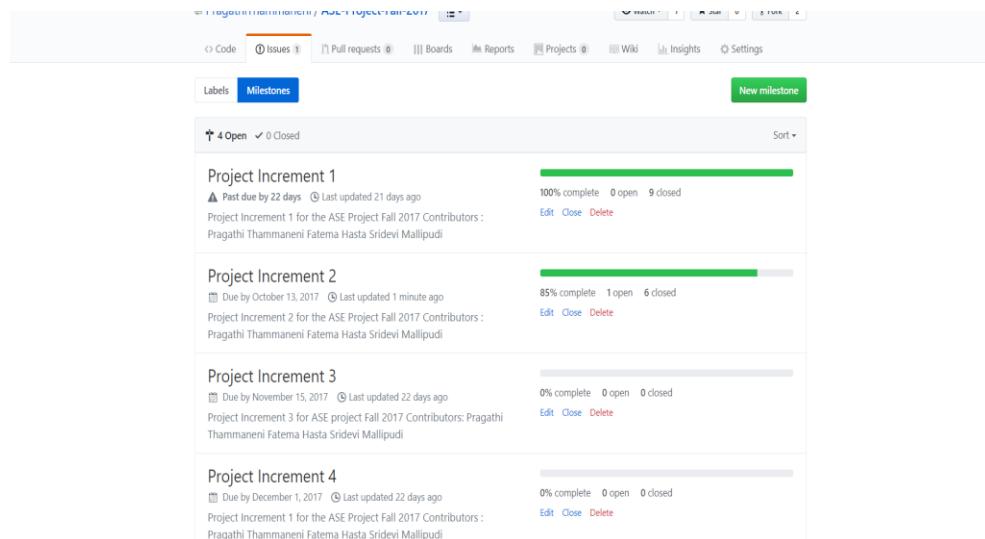
- Flexible and quick submission of attendance and feedback using a single form access rather than submitting multiple forms explicitly.
- Improved accessibility to track and manage student attendance and feedback.
- Positive and negative feedback analysis.
- Location and Time tracking of each submission.

Outcome:

This application is easily accessible and collectively helps students and professors with an easy submission, tracking the feedbacks with a single login instead of searching the links and submitting each form.

III. Project plan using Zen hub tools:

Schedule for four increments:



Project Timelines, Members, Task Responsibility:

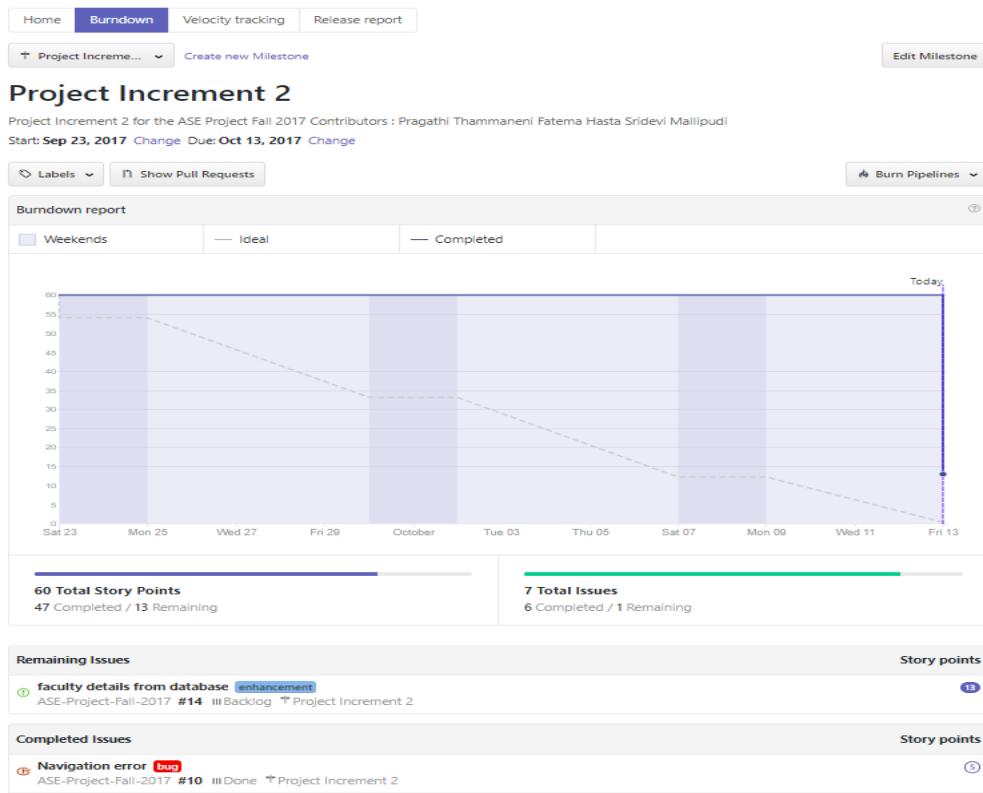
The below are the issues raised during the increment 1 and moved them to closed state once the individual task is done.

Attendance & Feedback Portal

The screenshot shows a GitHub project board for 'PragathiThammaneni / ASE-Project-Fall-2017'. The board has five columns: Backlog, In Progress, Review/QA, Done, and Closed. Each column contains several GitHub issues with their titles, descriptions, and labels like 'enhancement' or 'bug'.

Burndown Chart:

- 1.Design and Architecture
- 2.Login, Register user interface
- 3.UML diagrams
- 4.Development & Testing



Attendance & Feedback Portal

IV. Second Increment Report:

UMKC Attendance and Feedback Portal - A Web Application that avails students and professors to easily submit and access the attendance and feedback forms for courses enrolled.

Existing services/REST API: For this increment, we have used google calendar, google forms, Google Authenticator and MongoDB for storage.

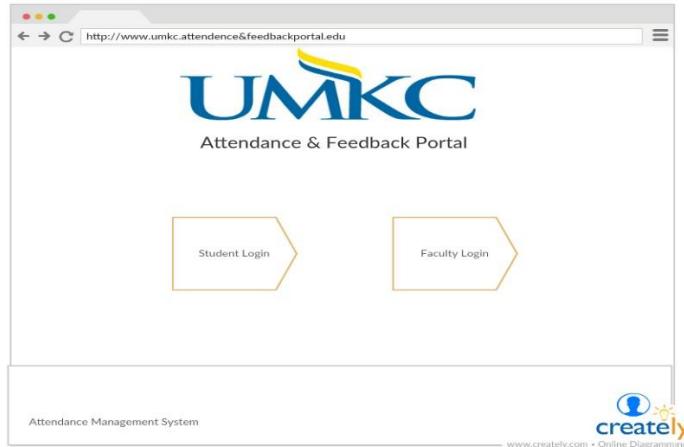
In next increments, we will be using Geolocation API, Sentimental Analysis API and Google Forms API.

Detailed Design of features:

Wireframes and Mock-ups:

Below are the wireframes and mock-ups for the UMKC Attendance & Feedback Portal.

1. Main Page:



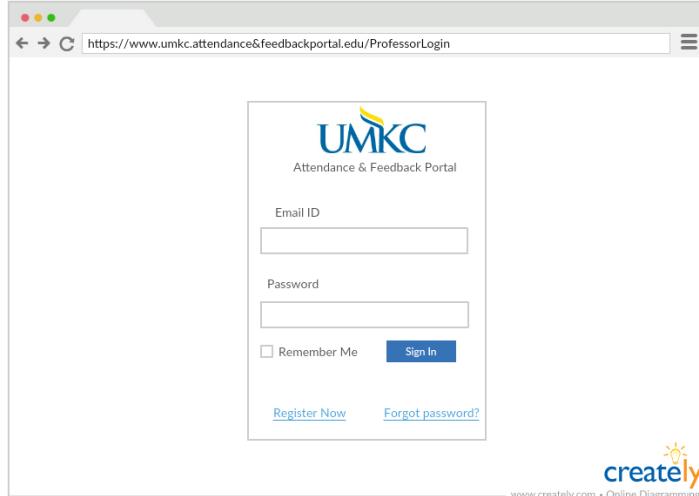
2. Login's: (Student/Faculty)

Student Login:

A screenshot of a web browser showing the Student Login page of the UMKC Attendance & Feedback Portal. The URL in the address bar is https://www.umkc.attendance&feedbackportal.edu/StudentLogin. The page has a white header with the UMKC logo and "Attendance & Feedback Portal". Below this is a form with fields for "Student ID" and "Password", a "Remember Me" checkbox, and a "Sign In" button. At the bottom of the form are links for "Register Now" and "Forgot password?". The "creately" logo and website address are visible in the bottom right corner of the page.

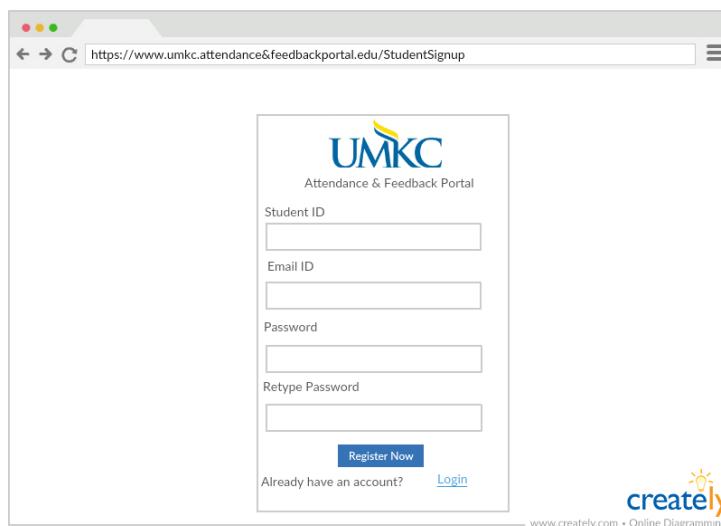
Attendance & Feedback Portal

Faculty Login:



The screenshot shows a web browser window for the UMKC Attendance & Feedback Portal. The URL is https://www.umkc.attendance&feedbackportal.edu/ProfessorLogin. The page features the UMKC logo and title. It contains fields for Email ID and Password, a 'Remember Me' checkbox, and a 'Sign In' button. Below the form are links for 'Register Now' and 'Forgot password?'. A 'creately' watermark is visible at the bottom right.

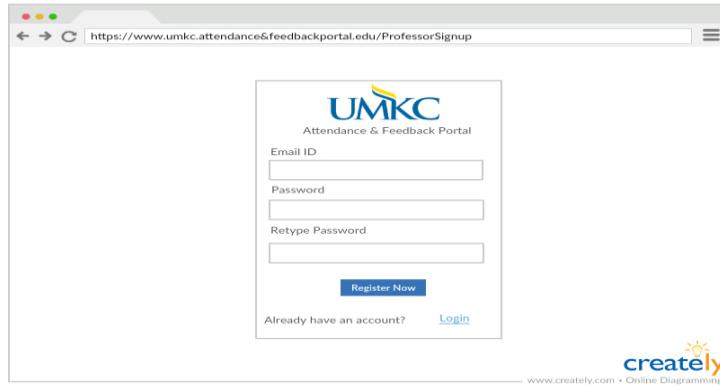
Student Registration:



The screenshot shows a web browser window for the UMKC Attendance & Feedback Portal. The URL is https://www.umkc.attendance&feedbackportal.edu/StudentSignup. The page features the UMKC logo and title. It contains fields for Student ID, Email ID, Password, and Retype Password. Below the form are buttons for 'Register Now' and 'Login', and a link for 'Already have an account?'. A 'creately' watermark is visible at the bottom right.

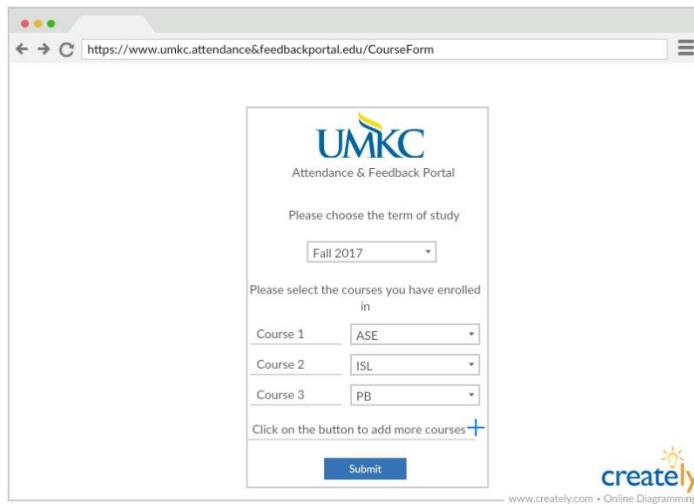
Faculty Registration:

Attendance & Feedback Portal

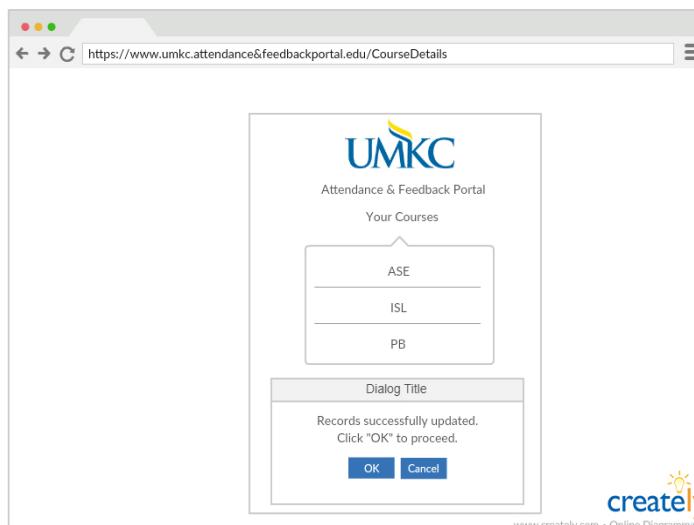


The screenshot shows the 'ProfessorSignup' page of the UMKC Attendance & Feedback Portal. It features a logo for 'UMKC Attendance & Feedback Portal'. Below the logo are three input fields: 'Email ID', 'Password', and 'Retype Password'. A blue 'Register Now' button is positioned below these fields. At the bottom left is a link 'Already have an account?'. On the right side, there is a 'Login' link and the 'creately' logo with the tagline 'www.creately.com • Online Diagramming'.

Course Details:



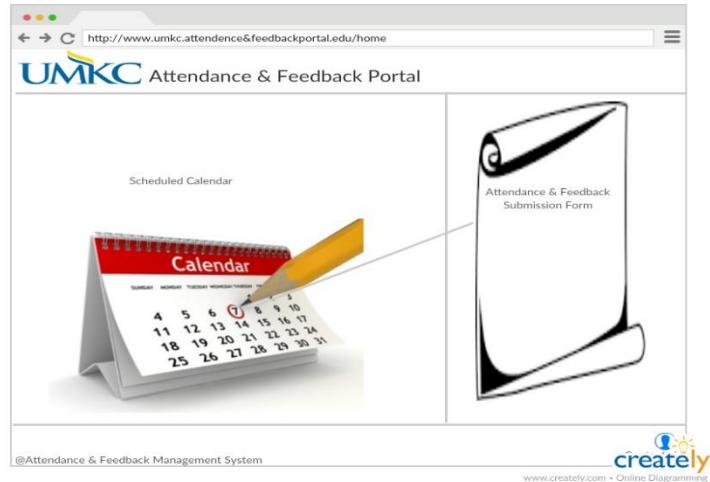
The screenshot shows the 'CourseForm' page. It includes a 'UMKC Attendance & Feedback Portal' logo. A dropdown menu for 'Please choose the term of study' is set to 'Fall 2017'. Below it, a section for selecting courses lists 'Course 1' (ASE), 'Course 2' (ISL), and 'Course 3' (PB). A blue '+' button allows adding more courses. A 'Submit' button is at the bottom. The 'creately' logo and website address are in the bottom right corner.



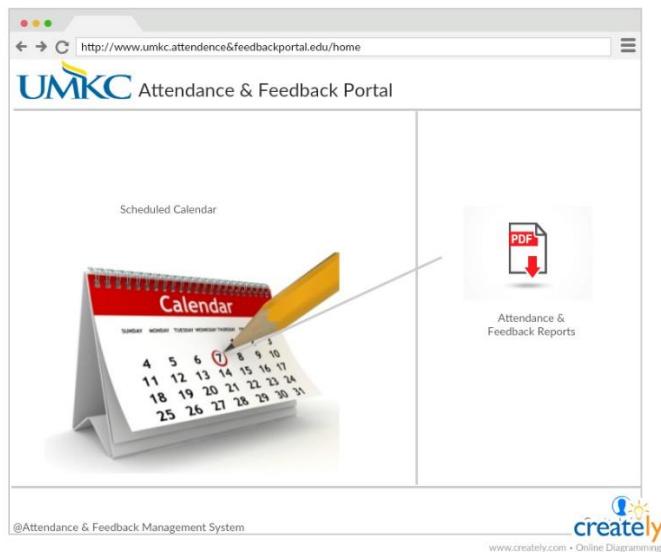
The screenshot shows the 'CourseDetails' page. It displays a 'UMKC Attendance & Feedback Portal' logo and a 'Your Courses' section containing ASE, ISL, and PB. A modal dialog box titled 'Dialog Title' contains the message 'Records successfully updated. Click "OK" to proceed.' with 'OK' and 'Cancel' buttons. The 'creately' logo and website address are in the bottom right corner.

Home Page for Student:

Attendance & Feedback Portal



Home Page for Professor:

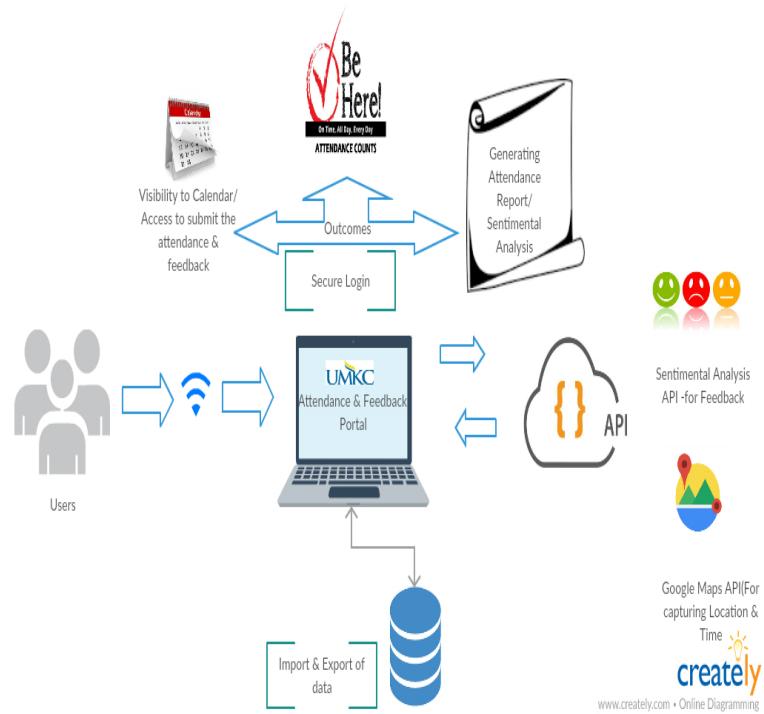


Architecture/Sequence/Class Diagrams:

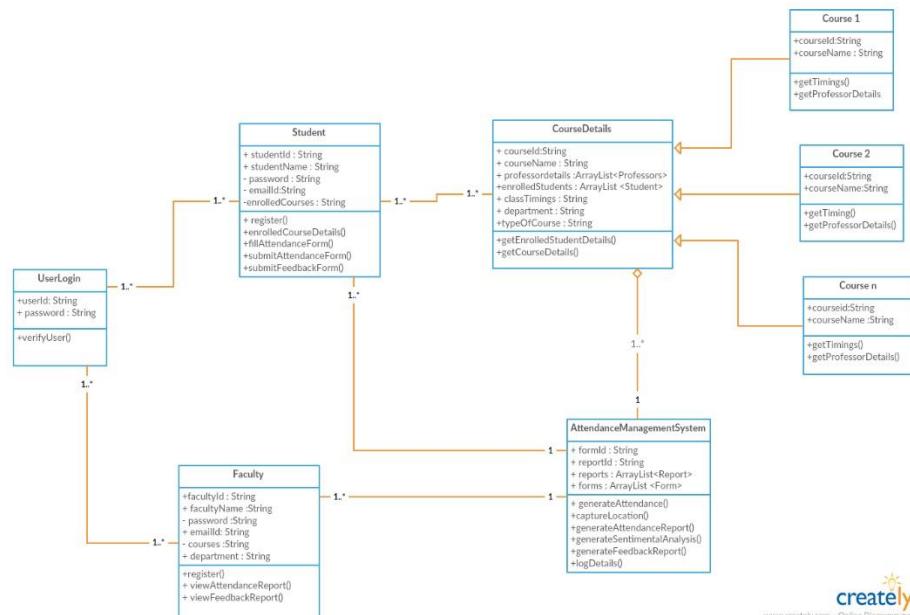
Below diagrams explains the architecture of the entire web application and the relations among the actors.

Architecture Diagram:

Attendance & Feedback Portal

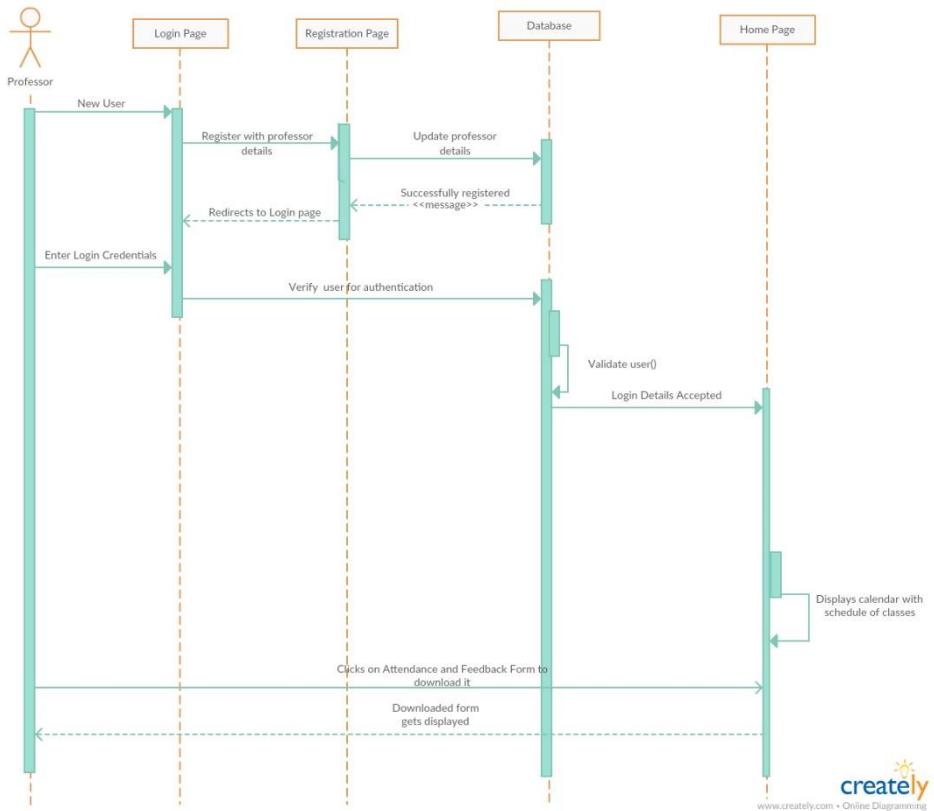
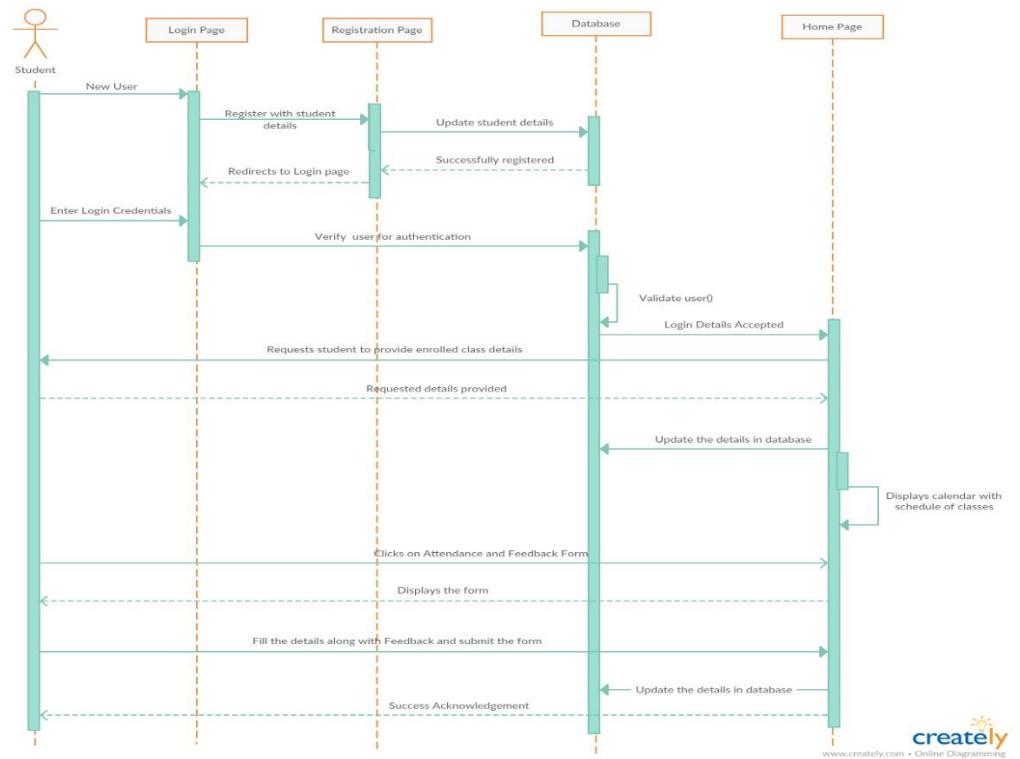


Class Diagram:



Sequence Diagrams: Below sequence diagrams explains the sequence of each flow with respect to student/faculty activities.

Attendance & Feedback Portal

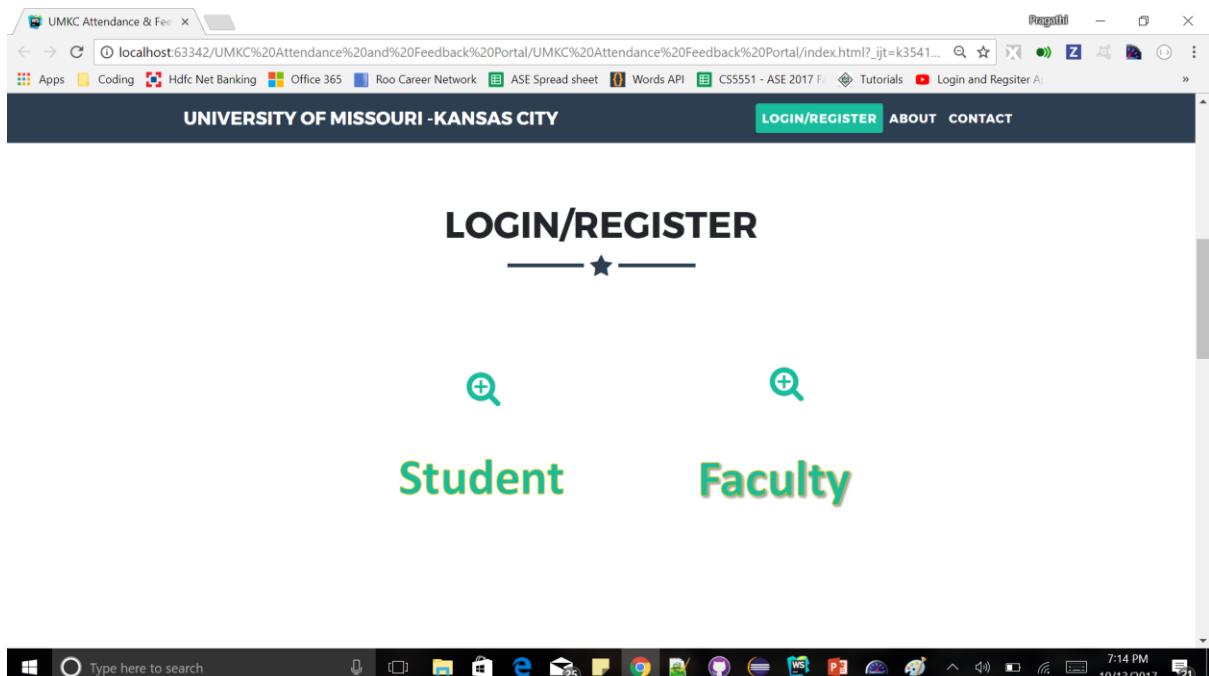


Attendance & Feedback Portal

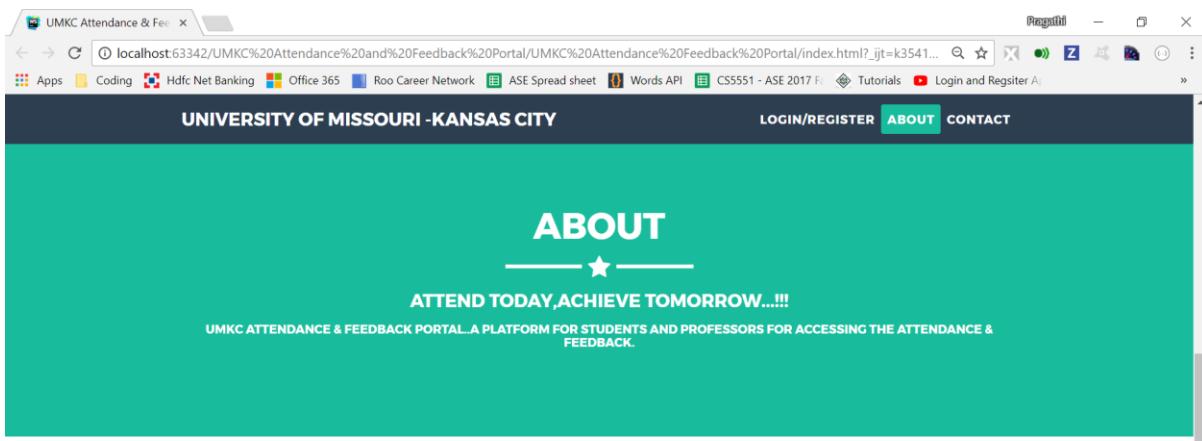
Implementation:

UMKC Attendance & Feedback portal:

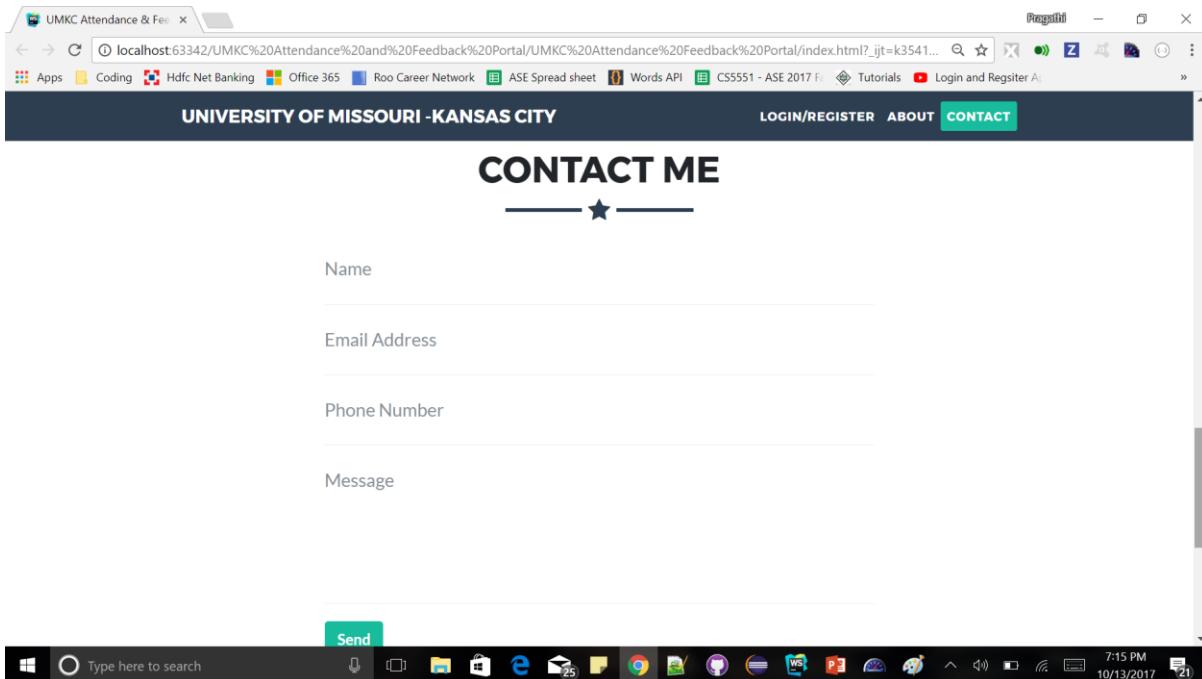
Index Page:



Attendance & Feedback Portal

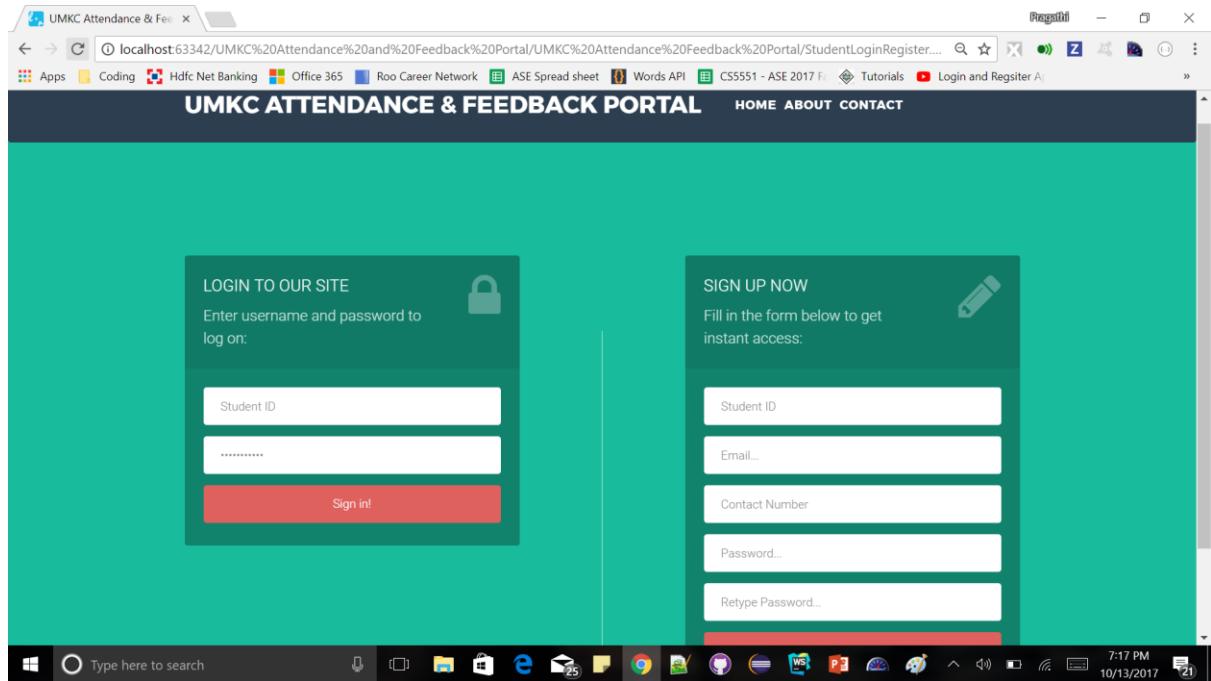


CONTACT ME

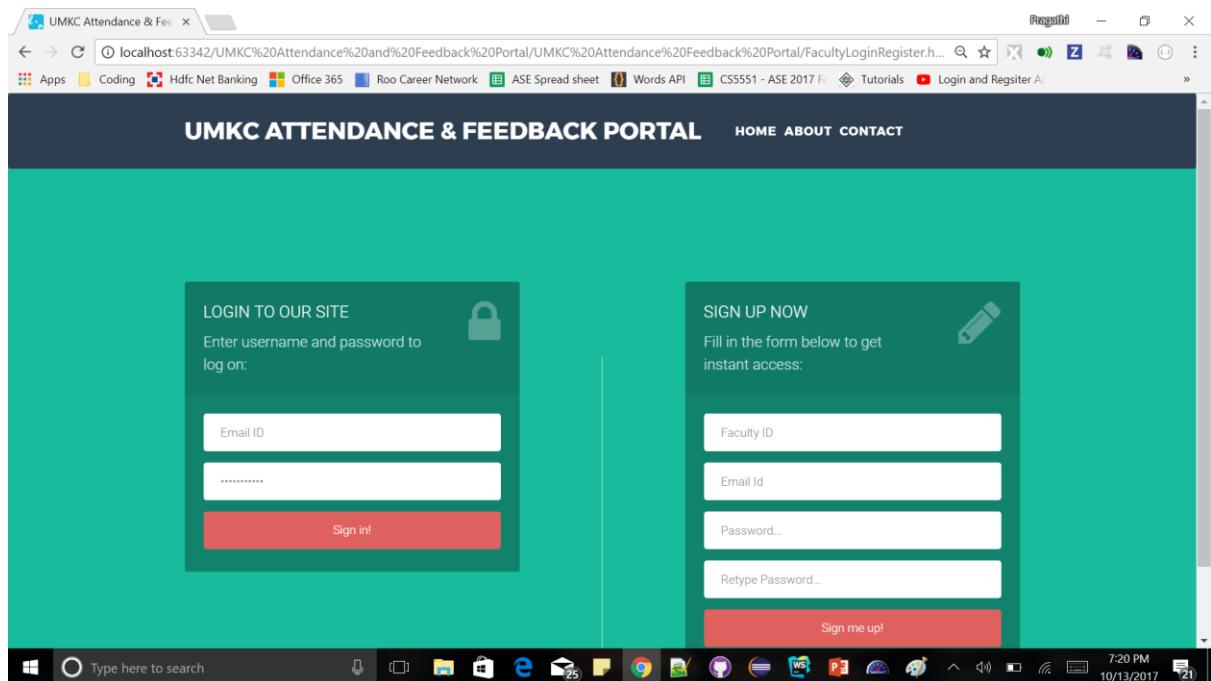


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Login & Registration(Student):

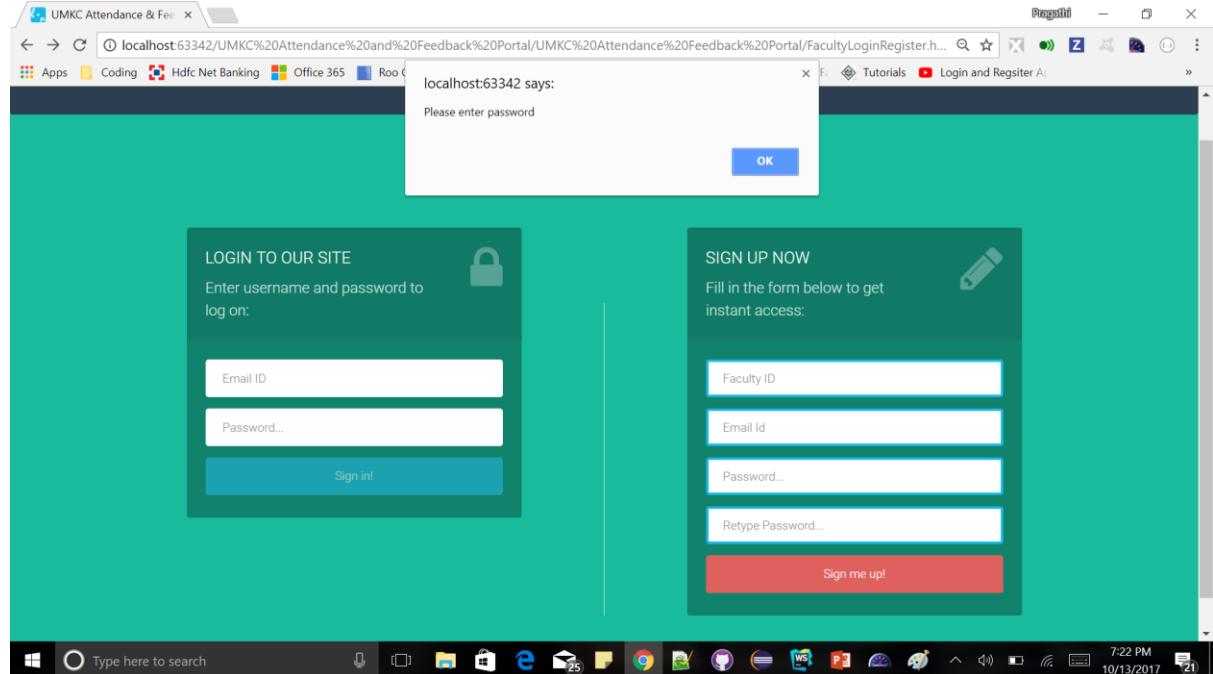


Login & Registration(Faculty):

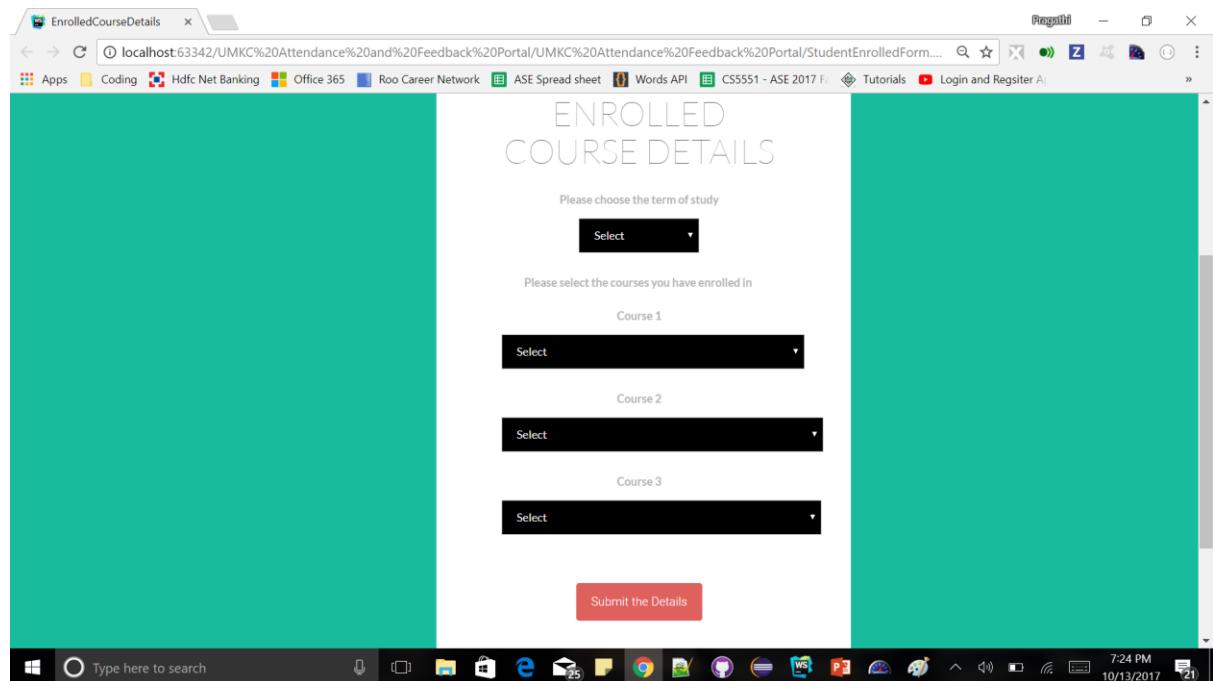


Attendance & Feedback Portal

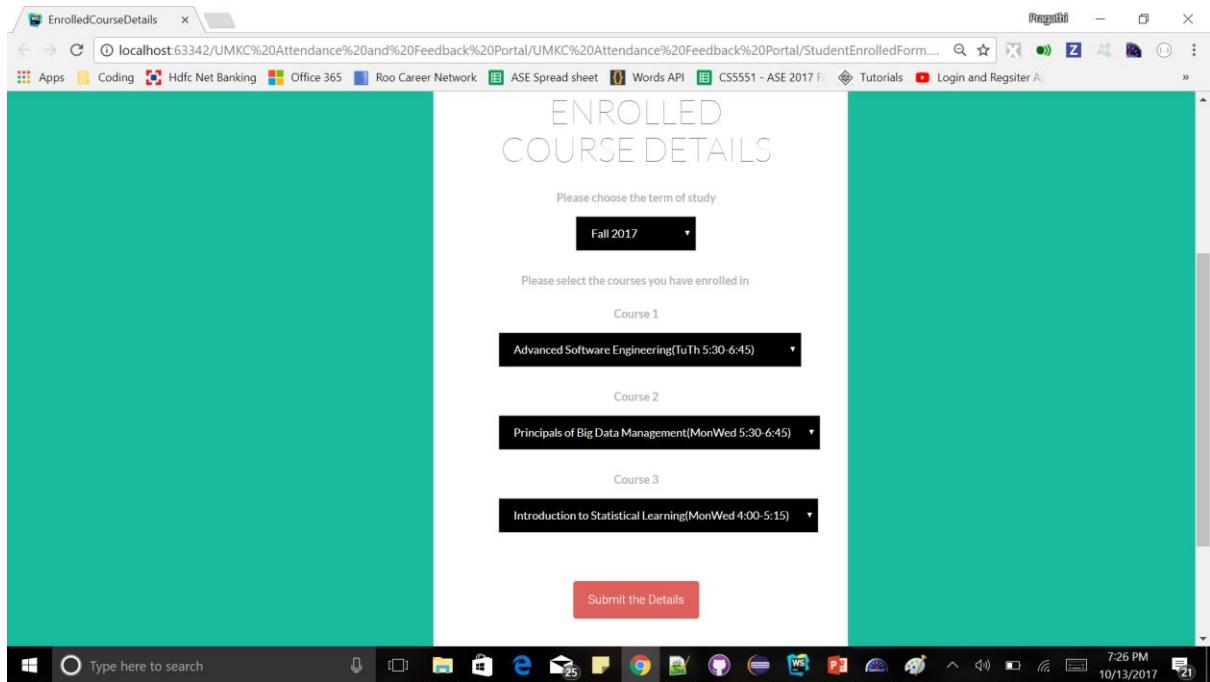
Validations:



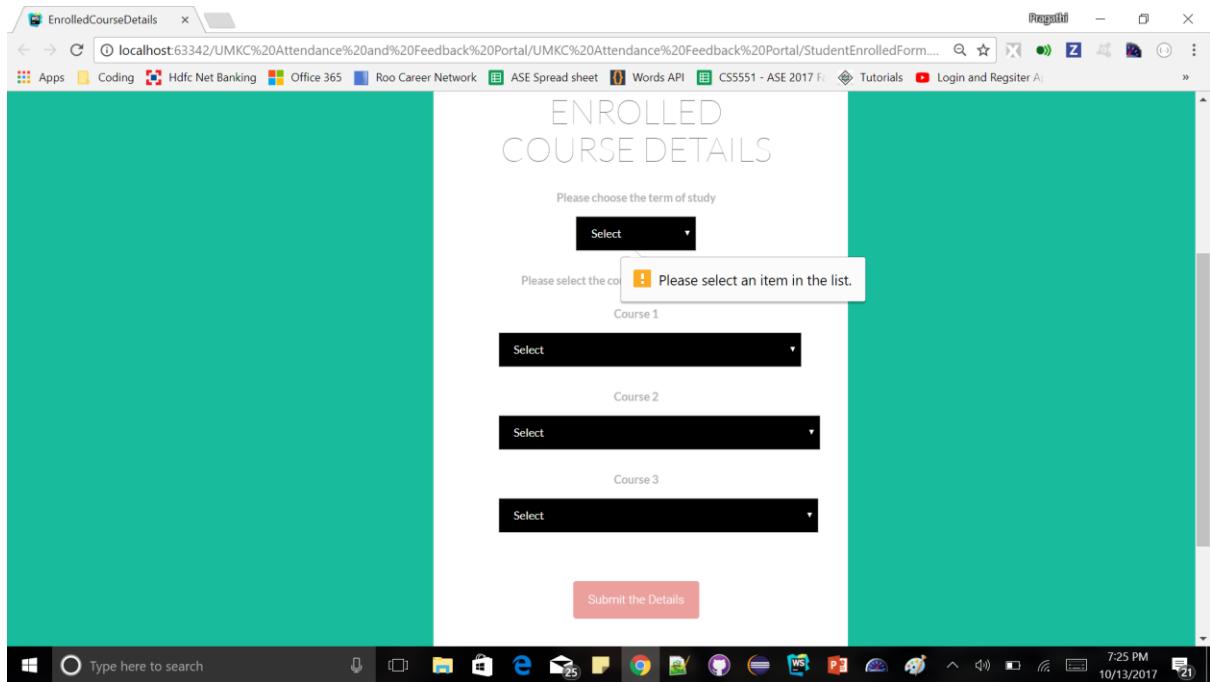
Enrolled course details screen:



Attendance & Feedback Portal

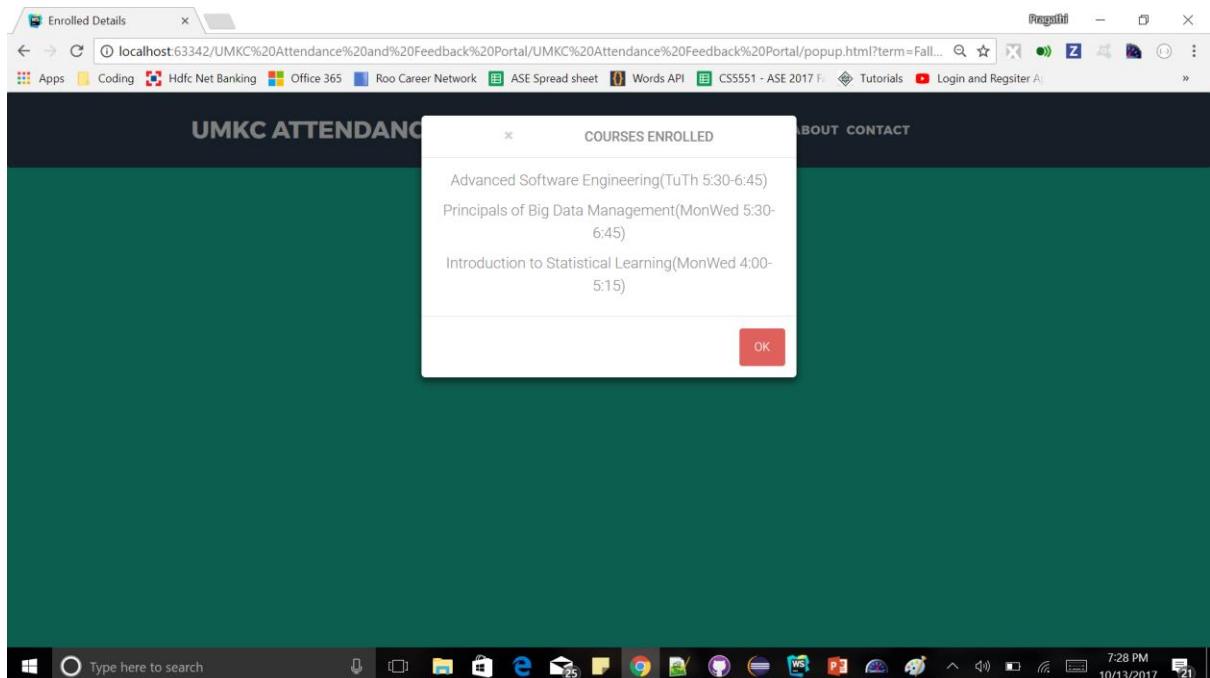


Validations:



Attendance & Feedback Portal

Pop-Up Message:



Home Page:

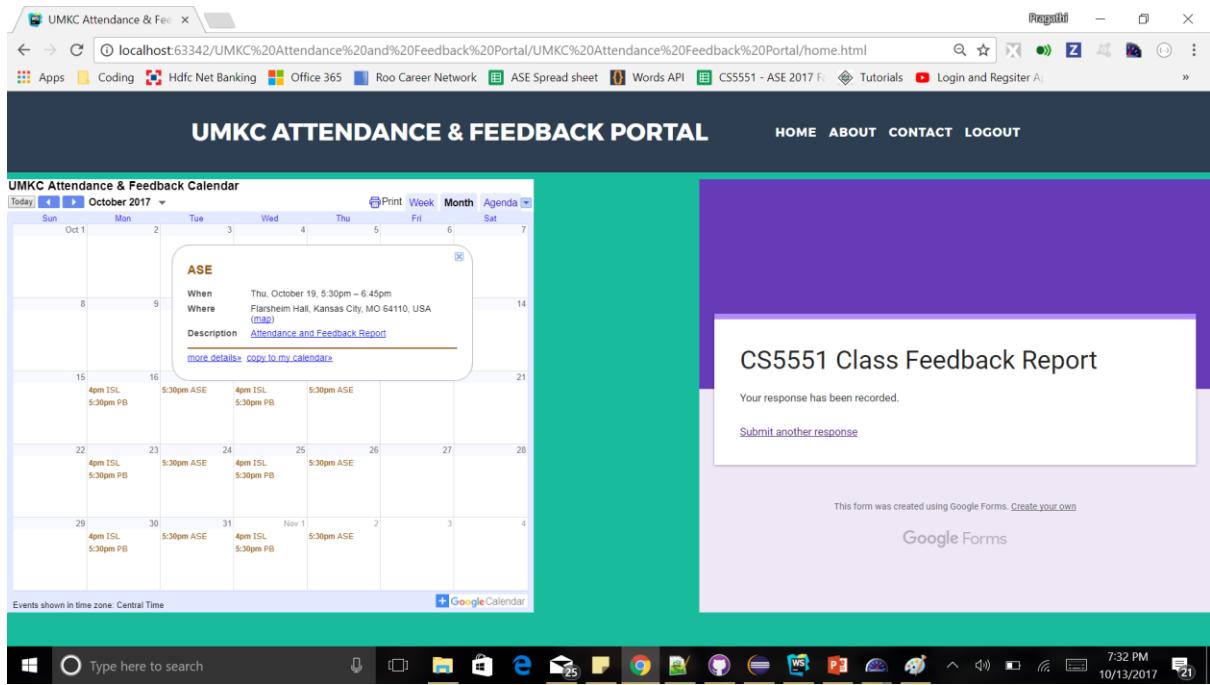
The screenshot shows a Windows desktop environment. A browser window is open to the 'UMKC ATTENDANCE & FEEDBACK PORTAL' home page. On the left, there is a 'UMKC Attendance & Feedback Calendar' for October 2017. The calendar shows various events like '4pm ISL 5:30pm PB' and '5:30pm ASE' for different dates. On the right, there is a 'CS5551 Class Feedback Report' section. It contains fields for 'What is your first name?' and 'What is your last name?'. Both fields have a red asterisk indicating they are required. There is also a note stating 'Attendance and Feedback Report' and 'Required'.

Attendance & Feedback Portal

The screenshot shows a Windows desktop with a browser window open to the UMKC Attendance & Feedback Portal. The calendar for October 2017 is displayed, showing events like ASE meetings on various dates. A specific event for ASE on October 19 is highlighted with details: When: Thu, October 19, 5:30pm – 6:45pm; Where: Flarsheim Hall, Kansas City, MO 64110, USA (map); Description: Attendance and Feedback Report. Below the calendar, there's a link to Google Calendar. To the right, a feedback form for CS5551 Class Feedback Report is shown, asking for first name and last name.

This screenshot is nearly identical to the one above, showing the same calendar view and the CS5551 Class Feedback Report form. The feedback form has been partially filled out with "16" for Student ID and "Rest services" for summarizing learned content. The "Lecture Feedback" field contains "Nice tutorial". A blue "SUBMIT" button is visible at the bottom of the form.

Attendance & Feedback Portal

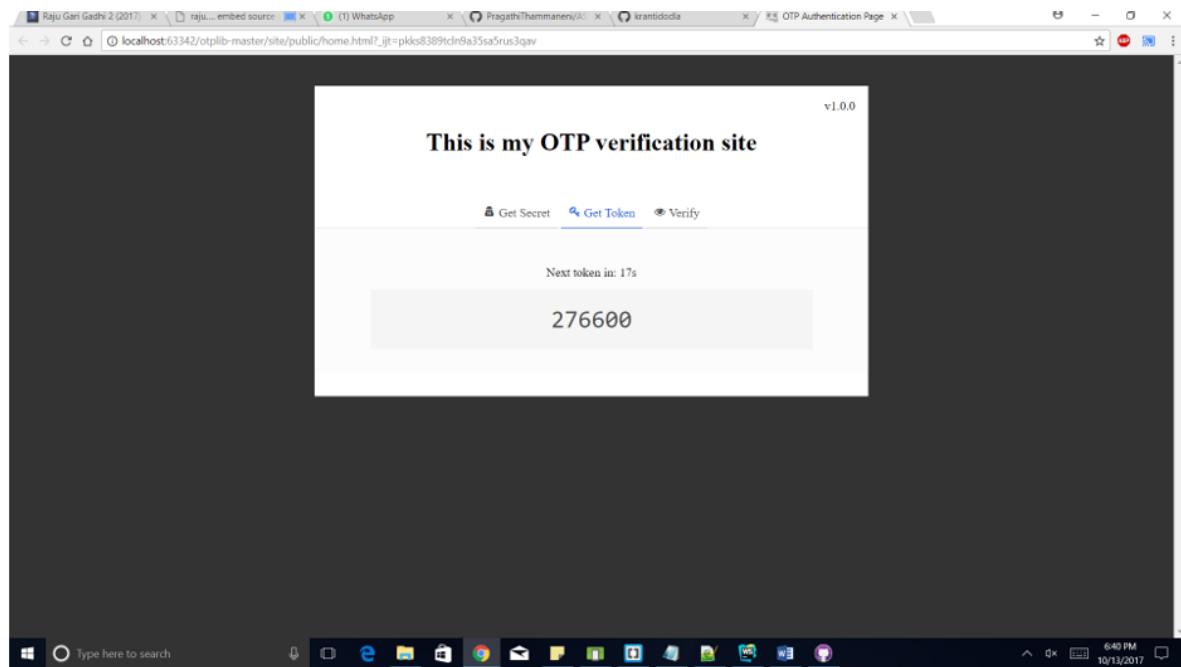


OTP generation code is done using Google Authenticator which provides the utilities for secret key generation which is SHA1. It has 2 main functions:

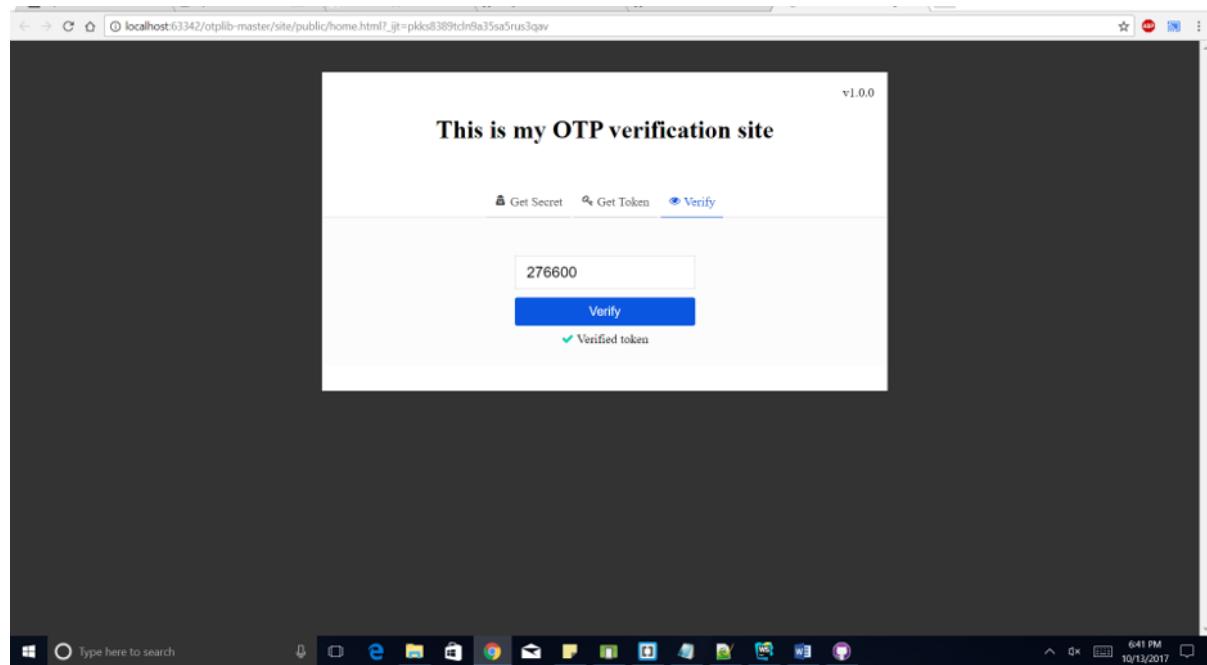
1. encodeKey()
2. decodeKey()

They both accept a string which needs to be either encoded or decoded. The encoded code has a time-interval which can be set to any interval we set it to 30 secs. On click of submit attendance form button, an OTP code will be generated and will be sent to the registered mail id.

Attendance & Feedback Portal



This code is valid for 30 seconds. The student must enter this code in the pop up page. The code will then be validated.



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Data Storage:

```
fatema@fatema-Inspiron-5559: ~
fatema@fatema-Inspiron-5559: ~/Desktop/Attendance and Feedback Portal
> use ASEPROJECT
switched to db ASEPROJECT
> db.users.find()
[{"_id": ObjectId("59e138865f2db52331456c83"), "studentId": 16247903, "email": "fahvdx@mail.umkc.edu", "contactNumber": 9133339243, "pwd": "123456", "repwd": "123456", "__v": 0}, {"_id": ObjectId("59e1392a5f2db52331456c84"), "studentId": 16230695, "email": "ptq6c@mail.umkc.edu", "contactNumber": 5126622284, "pwd": "1234567", "repwd": "1234567", "__v": 0}, {"_id": ObjectId("59e139605f2db52331456c85"), "studentId": 16251191, "email": "smz4z@mail.umkc.edu", "contactNumber": 8165032065, "pwd": "12345678", "repwd": "12345678", "__v": 0}, {"_id": ObjectId("59e13cf4e241a125b0b9d25b"), "facultyId": 300, "emailId": "leeyu@umkc.edu", "pwd": "leeumkc", "repwd": "leeumkc", "__v": 0}, {"_id": ObjectId("59e13dc2e241a125b0b9d25c"), "facultyId": 400, "emailId": "DMedhi@umkc.edu", "pwd": "mediummkc", "repwd": "mediummkc", "__v": 0}, {"_id": ObjectId("59e13e65e241a125b0b9d25d"), "facultyId": 500, "emailId": "raopr@umkc.edu", "pwd": "raoumkc", "repwd": "raoumkc", "__v": 0}, {"_id": ObjectId("59e138865f2db52331456c83"), "studentId": 16247903, "email": "fahvdx@mail.umkc.edu", "contactNumber": 9133339243, "pwd": "123456", "repwd": "123456", "__v": 0}, {"_id": ObjectId("59e1392a5f2db52331456c84"), "studentId": 16230695, "email": "ptq6c@mail.umkc.edu", "contactNumber": 5126622284, "pwd": "1234567", "repwd": "1234567", "__v": 0}, {"_id": ObjectId("59e139605f2db52331456c85"), "studentId": 16251191, "email": "smz4z@mail.umkc.edu", "contactNumber": 8165032065, "pwd": "12345678", "repwd": "12345678", "__v": 0}, {"_id": ObjectId("59e13cf4e241a125b0b9d25b"), "facultyId": 300, "emailId": "leeyu@umkc.edu", "pwd": "leeumkc", "repwd": "leeumkc", "__v": 0}, {"_id": ObjectId("59e13dc2e241a125b0b9d25c"), "facultyId": 400, "emailId": "DMedhi@umkc.edu", "pwd": "mediummkc", "repwd": "mediummkc", "__v": 0}, {"_id": ObjectId("59e13e65e241a125b0b9d25d"), "facultyId": 500, "emailId": "raopr@umkc.edu", "pwd": "raoumkc", "repwd": "raoumkc", "__v": 0}, {"_id": ObjectId("59e142565540ae2e90438e57"), "term": "Fall 2017", "course1": "ASE", "course2": "BAA", "course3": "PPS", "__v": 0}, {"> db.users.remove({"course1": "ASE"})
WriteResult({ "nRemoved": 1 })
> db.users.find()
[{"_id": ObjectId("59e138865f2db52331456c83"), "studentId": 16247903, "email": "fahvdx@mail.umkc.edu", "contactNumber": 9133339243, "pwd": "123456", "repwd": "123456", "__v": 0}, {"_id": ObjectId("59e1392a5f2db52331456c84"), "studentId": 16230695, "email": "ptq6c@mail.umkc.edu", "contactNumber": 5126622284, "pwd": "1234567", "repwd": "1234567", "__v": 0}, {"_id": ObjectId("59e139605f2db52331456c85"), "studentId": 16251191, "email": "smz4z@mail.umkc.edu", "contactNumber": 8165032065, "pwd": "12345678", "repwd": "12345678", "__v": 0}, {"_id": ObjectId("59e13cf4e241a125b0b9d25b"), "facultyId": 300, "emailId": "leeyu@umkc.edu", "pwd": "leeumkc", "repwd": "leeumkc", "__v": 0}, {"_id": ObjectId("59e13dc2e241a125b0b9d25c"), "facultyId": 400, "emailId": "DMedhi@umkc.edu", "pwd": "mediummkc", "repwd": "mediummkc", "__v": 0}, {"_id": ObjectId("59e13e65e241a125b0b9d25d"), "facultyId": 500, "emailId": "raopr@umkc.edu", "pwd": "raoumkc", "repwd": "raoumkc", "__v": 0}, {"_id": ObjectId("59e142565540ae2e90438e57"), "term": "Fall 2017", "course1": "ASE", "course2": "BAA", "course3": "PPS", "__v": 0}, {"> db.users.remove({"course1": "ASE"})
WriteResult({ "nRemoved": 1 })
> db.users.find()
```

```
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fatema@fatema-Inspiron-5559: ~/Desktop/Attendance and Feedback Portal
> use ASEPROJECT
switched to db ASEPROJECT
> db.users.find()
[{"_id": ObjectId("59e138865f2db52331456c83"), "studentId": 16247903, "email": "fahvdx@mail.umkc.edu", "contactNumber": 9133339243, "pwd": "123456", "repwd": "123456", "__v": 0}, {"_id": ObjectId("59e1392a5f2db52331456c84"), "studentId": 16230695, "email": "ptq6c@mail.umkc.edu", "contactNumber": 5126622284, "pwd": "1234567", "repwd": "1234567", "__v": 0}, {"_id": ObjectId("59e139605f2db52331456c85"), "studentId": 16251191, "email": "smz4z@mail.umkc.edu", "contactNumber": 8165032065, "pwd": "12345678", "repwd": "12345678", "__v": 0}, {"_id": ObjectId("59e13cf4e241a125b0b9d25b"), "facultyId": 300, "emailId": "leeyu@umkc.edu", "pwd": "leeumkc", "repwd": "leeumkc", "__v": 0}, {"_id": ObjectId("59e13dc2e241a125b0b9d25c"), "facultyId": 400, "emailId": "DMedhi@umkc.edu", "pwd": "mediummkc", "repwd": "mediummkc", "__v": 0}, {"_id": ObjectId("59e13e65e241a125b0b9d25d"), "facultyId": 500, "emailId": "raopr@umkc.edu", "pwd": "raoumkc", "repwd": "raoumkc", "__v": 0}, {"_id": ObjectId("59e142565540ae2e90438e57"), "term": "Fall 2017", "course1": "ASE", "course2": "BAA", "course3": "PPS", "__v": 0}, {"> db.users.remove({"course1": "ASE"})
WriteResult({ "nRemoved": 1 })
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[{"_id": ObjectId("59e138865f2db52331456c83"), "studentId": 16247903, "email": "fahvdx@mail.umkc.edu", "contactNumber": 9133339243, "pwd": "123456", "repwd": "123456", "__v": 0}, {"_id": ObjectId("59e1392a5f2db52331456c84"), "studentId": 16230695, "email": "ptq6c@mail.umkc.edu", "contactNumber": 5126622284, "pwd": "1234567", "repwd": "1234567", "__v": 0}, {"_id": ObjectId("59e139605f2db52331456c85"), "studentId": 16251191, "email": "smz4z@mail.umkc.edu", "contactNumber": 8165032065, "pwd": "12345678", "repwd": "12345678", "__v": 0}, {"_id": ObjectId("59e13cf4e241a125b0b9d25b"), "facultyId": 300, "emailId": "leeyu@umkc.edu", "pwd": "leeumkc", "repwd": "leeumkc", "__v": 0}, {"_id": ObjectId("59e13dc2e241a125b0b9d25c"), "facultyId": 400, "emailId": "DMedhi@umkc.edu", "pwd": "mediummkc", "repwd": "mediummkc", "__v": 0}, {"_id": ObjectId("59e13e65e241a125b0b9d25d"), "facultyId": 500, "emailId": "raopr@umkc.edu", "pwd": "raoumkc", "repwd": "raoumkc", "__v": 0}, {"_id": ObjectId("59e142565540ae2e90438e57"), "term": "Fall 2017", "course1": "ASE", "course2": "BAA", "course3": "PPS", "__v": 0}, {"> db.users.remove({"course1": "ASE"})
WriteResult({ "nRemoved": 1 })
> db.users.find()
```

Attendance & Feedback Portal

Google forms responses are stored in google spreadsheet as shown below

Timestamp	First Name	Last Name	Student ID	Lecture Feedback
10/13/2017 14:11:31	Sridevi	Mallipudi	16251191	angular js Good
10/13/2017 15:18:32	Pragathi	Thammaneni	16230695	Client server architecture, It was a good Experience
10/13/2017 19:32:48	Fatema	Hasta	16247903	Rest services Nice tutorial

Testing:

S.No	Test case	Description	Expected Outcome	Result
1.	Enrolled course details screen	Enrolled course details screen should only be displayed to new users.	User should be registered successfully and redirected to Enrolled course details screen.	Pass
2.	Pop-Up message	Courses selected in enrolled course details screen should reflect in pop-up message upon submission.	Pop-Up message should display the selected courses from enrolled course details screen.	Pass
3.	Calendar Events generation	Generating events in calendar as per enrolled courses schedule.	Calendar should display the events as per enrolled courses schedule.	Pass
4.	Page navigations	On clicking the buttons user should be redirected to next page upon clicking the submit button.	User should be redirected to next page upon clicking the submit button.	Pass
5.	Storing the data	Details entered	Details entered	Pass

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	in database.	by the user should be saved in database.	by the user should be saved in database.	
6.	Retrieving the data from database.	User details should be retrieved from database and must be displayed on screen.	User details are retrieved from database and displayed on screen.	Pass

Deployment:

- We have deployed the application in web browser and captured the screenshots.
- Explained each feature in the Wireframes & implementation

GitHub URL for project source code and documentation:

<https://github.com/PragathiThammaneni/ASE-Project-Fall-2017/tree/master/Project%20Increment%201>

Project Management:

Technologies Used: Bootstrap, Angular JS, HTML, CSS, JavaScript

Software's Used: WebStorm

Database:

We have used MongoDB for storing and retrieving the information.

Worked Completed:

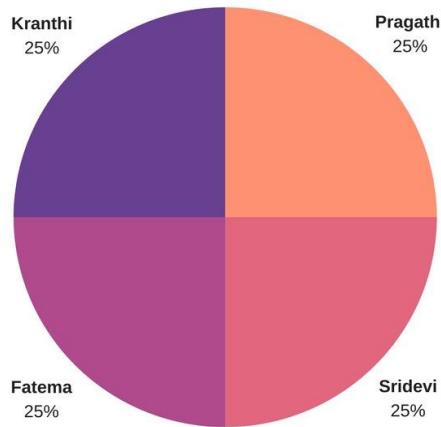
For this increment, we have enhanced the user interface, created enrolled course details screen, displayed pop-up screen with enrolled courses, used google calendar and displayed the events as per user schedule, integrated google forms into the application, used MongoDB for storing and retrieving the user details, implemented google authenticator for generating OTP to validate the user and deployed the application in web successfully.

Responsibility:

S.No	Team Member Name	Task Assigned	Status
1	Pragathi Thammaneni	UI,Backend,Documentation	Completed
2	Fatema Hasta	UI,Backend,Documentation	Completed
3	Sridevi Mallipudi	UI,Backend,Documentation	Completed
4	Kranthi Dodla	UI,Backend,Documentation	Completed

Attendance & Feedback Portal

Contributions:



Worked to be Completed:

For next increment, we have planned to do sentimental analysis on feedback given by user, capture user location, create faculty screens, implement google forms API to export the data present in database to excel sheet and auto generate the attendance reports.

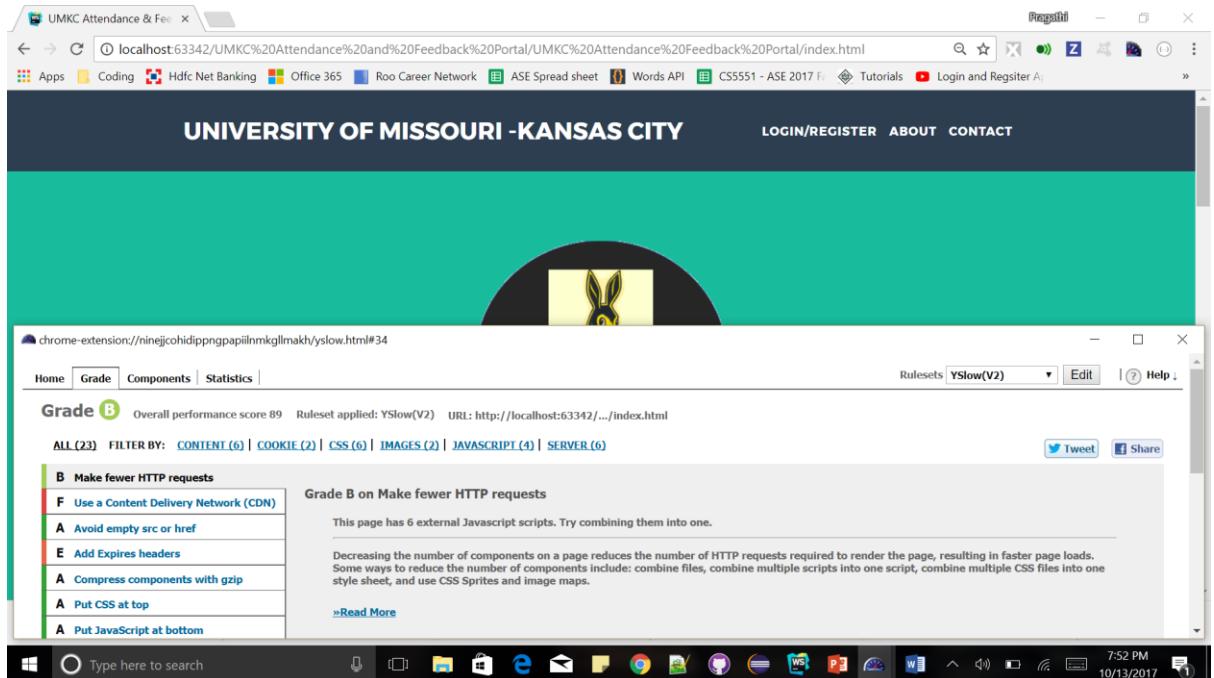
Issues/Concerns:

1. Faced issues when connecting MongoDB database to expressJS server.
2. Retrieving data from MongoDB.

Attendance & Feedback Portal

Unit Testing/Performance Testing:

- Page performance and ranking is checked using YSLOW analyser.



Bibliography:

<https://www.w3schools.com/>

https://docs.mongodb.com/?_ga=2.44347169.466579474.1507930403-192960142.1507930403

<https://stackoverflow.com/>

Attendance & Feedback Portal
