

Course 360

User's Manual

CSCI-P465/565 (Software Engineering I)

Project Team

Aravind Parappil

Juhi Deshkar

Kriti Shree

Sai Rohith Achanta

1. Product Overview

Course 360 is course registration and management system that provides the student with features such as course search, course registration, course reviews and grade distribution for each course. The student can also see the schedule of the classes he/she has enrolled for. A group and personal chat feature is also available for the students to interact with the professors and other fellow students, so as to have discussions on topics related to the course.

The software also facilitates the professor with the features such as getting his/her class schedule details, class details such as timings and location, grade distribution for the course and statistics of students enrolled for their course. The group and personal chat feature is also available for the professor to interact with the students and help resolve any queries. The registrar is the super user who has the ability to add or remove professors or students in the system. The registrar can also see the statistics of the students enrolled in each term for one academic year. The registrar can also add, delete or make changes to any courses offered in the term. The reviews provided by the students can be edited or deleted by the registrar. A user profile for all the three types of the users is available where in the user can upload his/her image and update other details such as permanent address, telephone number, alternate email, etc.

2. System Requirements

For the product to operate, following are the minimum hardware and software system requirements which need to be installed.

Software Requirements

- Postgres10.2
- Node
- Python3
- Pip3

Hardware Requirements

- I3 processor
- 2GB RAM
- 500 GB Hard Disk

3. Product Installation

Once the above hardware requirements have been fulfilled, kindly follow the steps below to install the product.

1. Installation of pip3. Please follow the link for details on how to proceed with the installation.

<https://pip.pypa.io/en/stable/installing/>

2. Installation of Python3. Please follow the link for details on how to proceed with the installation.

<https://www.python.org/downloads/release/python-371/>

3. Set up of the Node.js server. Please follow the link for details on how to proceed with the installation.

<https://nodejs.org/en/download/>

4. Installation of Postgresql database. Please follow the link for details on how to proceed with the installation.

<https://www.postgresql.org/download/windows/>

5. Installation of npmjs package manager for Javascript. Please follow the link for details on how to proceed with the installation.

<https://www.npmjs.com/package/npm>

Following are the commands for the installation steps:

Npm install

Npm start

pip3 install -r requirements.txt

Mac/linux:

Python3 -m Controller.course360

Windows

Python -m Controllers.course360

To run the UI application locally:

1. Download source code locally from git repo... Provide link here
2. Go to the local folder and npm install
3. npm start

The application runs locally on 3000 port.

4. Product Operation

Once the software has been successfully installed, following are the sequence of steps to guide the user through the start -up, modes of operation and actions which can be performed within the tool.

- This is the start -up page of the user. Once the user has filled in all the details, an activation link is sent to the registered email id. On clicking the activation link, the user can now access the functionalities.

Course 360

Glad you wish to join us!

First Name

Last Name

Enter your email

Enter a password

Set a security question

Answer

☐ Student

node-v10.14.1-SU... Cancelled

Show All

- If the user forgets or wants to reset the password, a password recovery tool is available to reset the password. A one time password is sent to the registered email id once the security question has been correctly answered.

Course 360

Sign In

Email

Password

[Forgot Password?](#)

SIGN IN

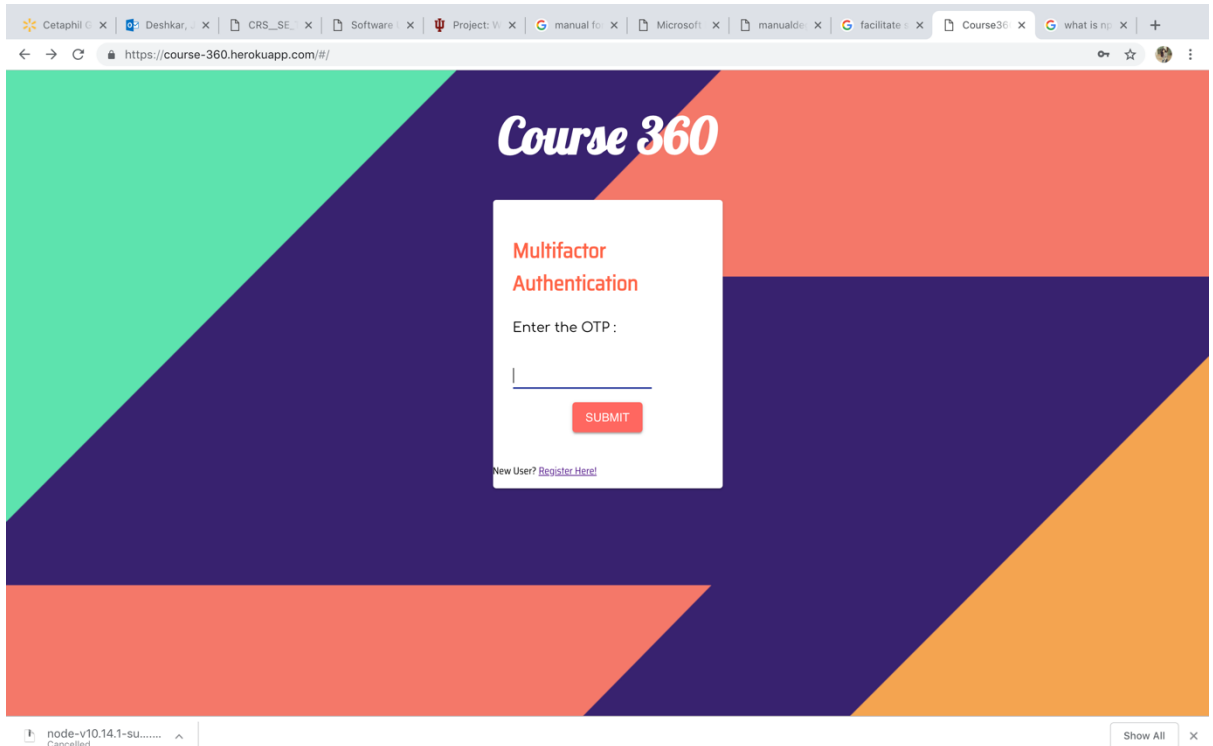
[Login with Facebook](#)

New User? [Register Here!](#)

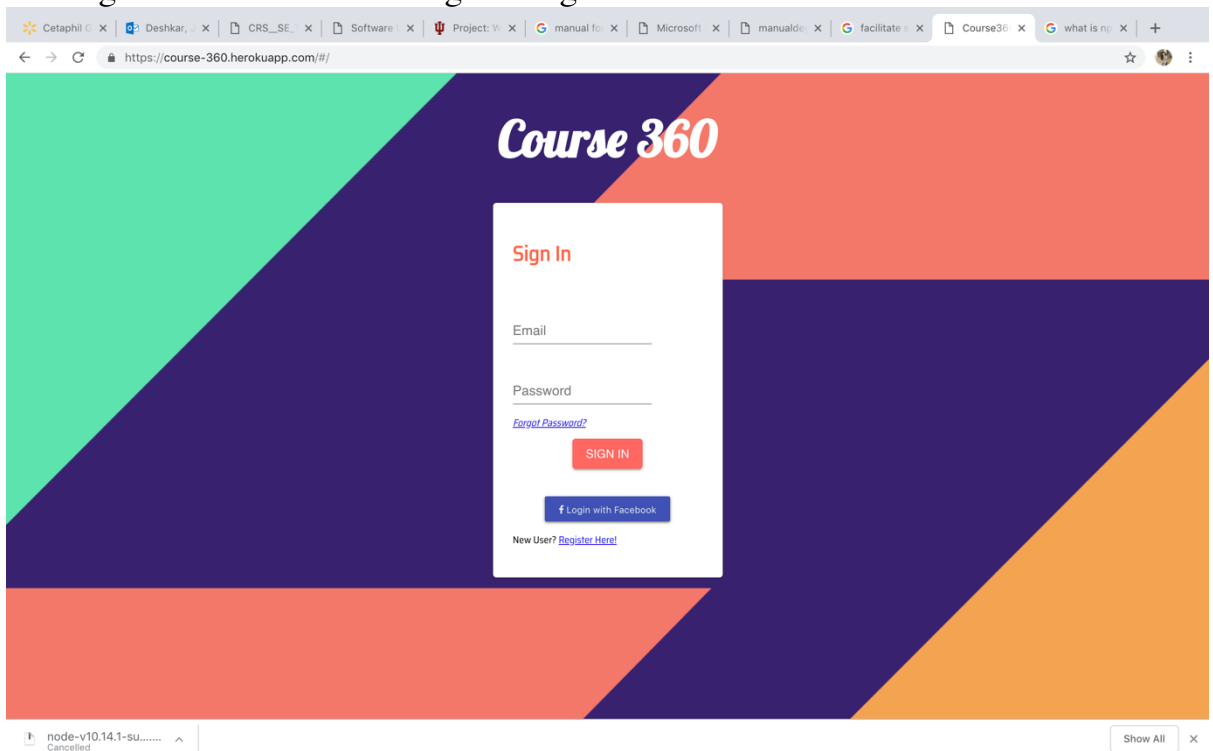
node-v10.14.1-SU... Cancelled

Show All

- Once the user is activated, for logging into the portal, a one time password is sent to the email address.

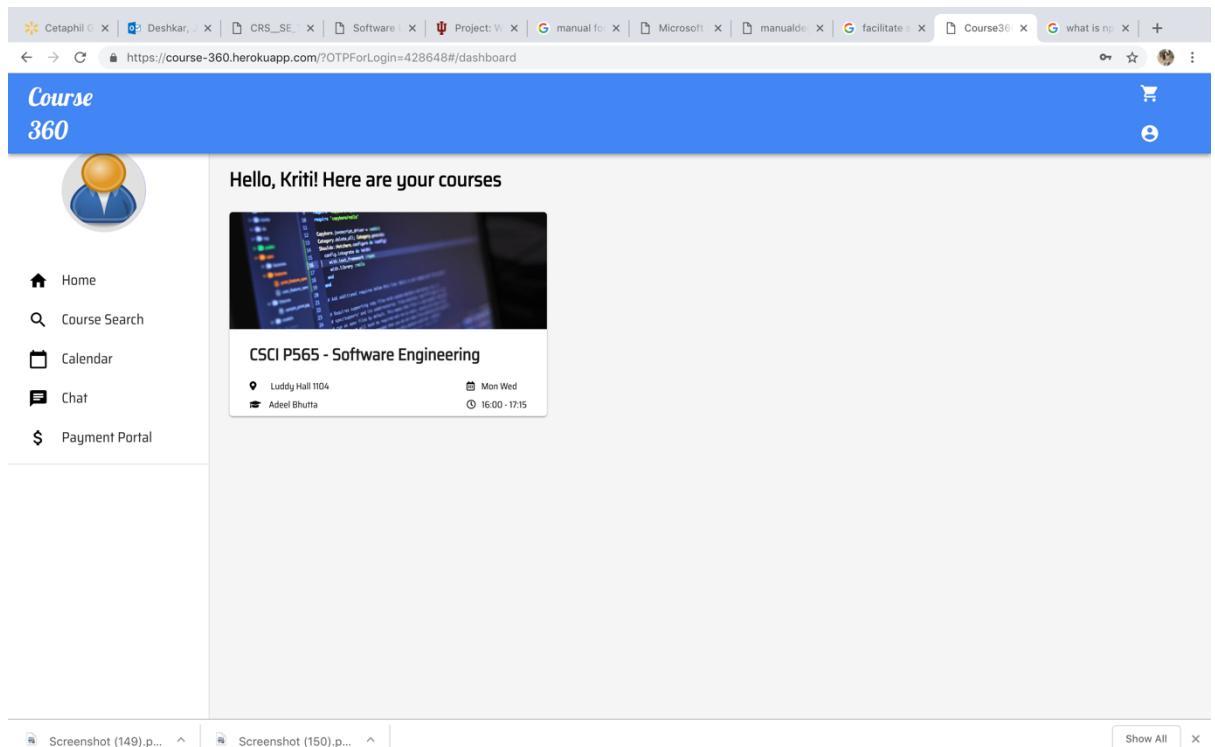


- The registered user can also login using his/her facebook credentials.

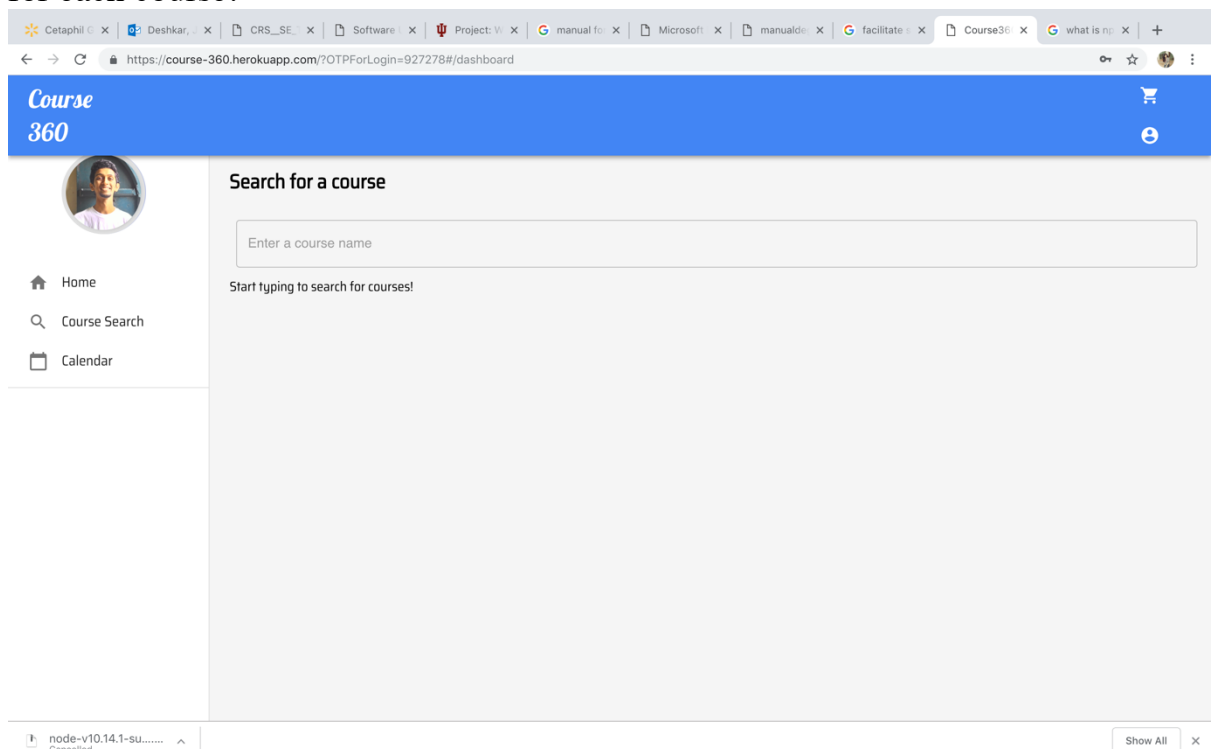


Following are the functionalities available for the student.

- Start-up page for the student.



- **Course Search:** The student can search for any course and know the details for each course.



- **Calendar:** The student can see his class schedule using this tool for the current semester.

The screenshot shows the 'Course 360' dashboard. The top navigation bar includes a shopping cart icon and a user profile icon. The main section is titled 'Your Schedule' and displays a calendar for September 2018. The calendar shows 'Software Engineering' classes on the following dates: 26, 27, 28, 29, 30, 31, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, and 29. The left sidebar contains navigation links: Home, Course Search, Calendar, Chat, and Payment Portal.

- Course registration: The student can search for the courses and enrol for them too. The add to cart icon enables the student to add the courses. The courses are validated to ensure there is no clash of timings in the selected courses.

The screenshot shows the 'Course 360' dashboard for the course 'CSCI B503 - Applied Algorithms'. The page includes course information such as the professor (Funda Ergun), location (Ballantine Hall), time (16:00 - 17:15), and days offered (Mon Wed). It also features a 'Comments about this course' section with two user reviews. The left sidebar contains navigation links: Home, Course Search, and Calendar.

- Payment: The student can pay for the courses he/she has enrolled for and pay as well. Once the payment is successful, an email with the payment confirmation is sent to their registered email id.

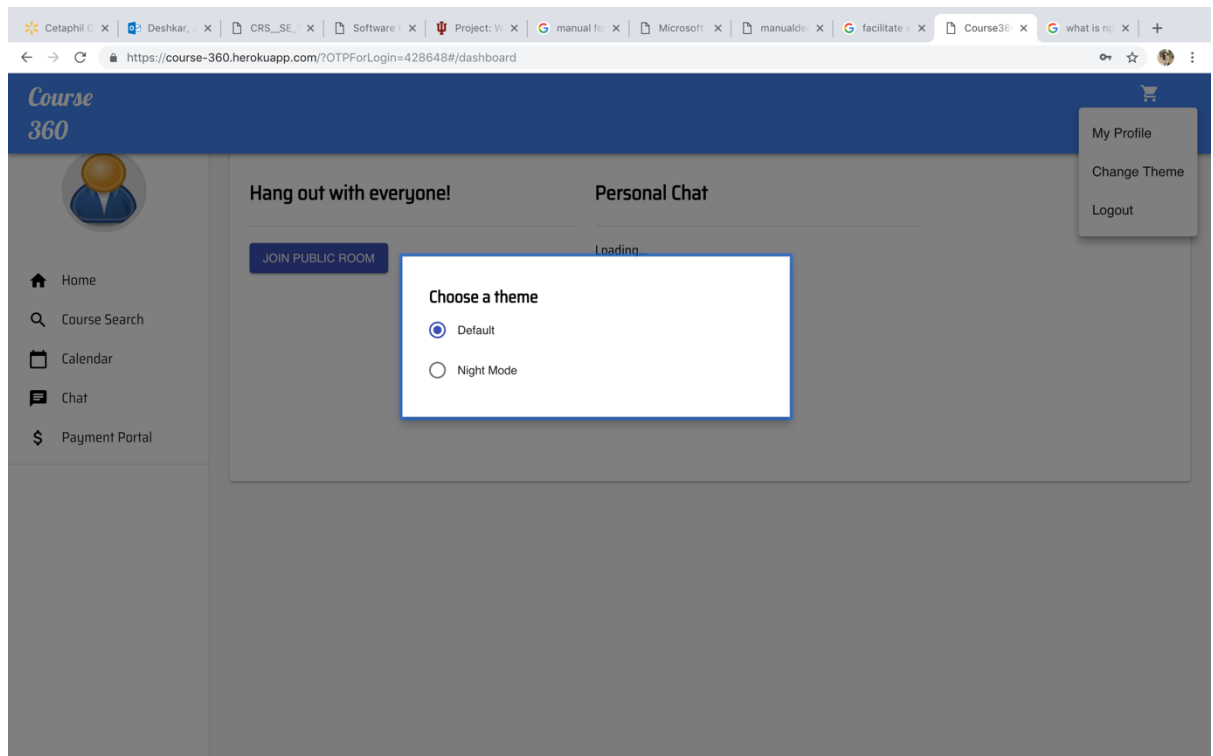
The screenshot shows the 'Course 360' dashboard. On the left is a sidebar with navigation links: Home, Course Search, Calendar, Chat, and Payment Portal. The main content area features a 'Payment Mode' section with radio buttons for Credit Card, eCheck, and Coupon. To the right of this is a table summarizing the costs.

Item	Amount
Cost of Courses enrolled	\$1300
Late Registration Penalty	\$0
Late Fee Payment Penalty	\$415
Financial Aid	-\$173
Total Amount to be paid	\$1542

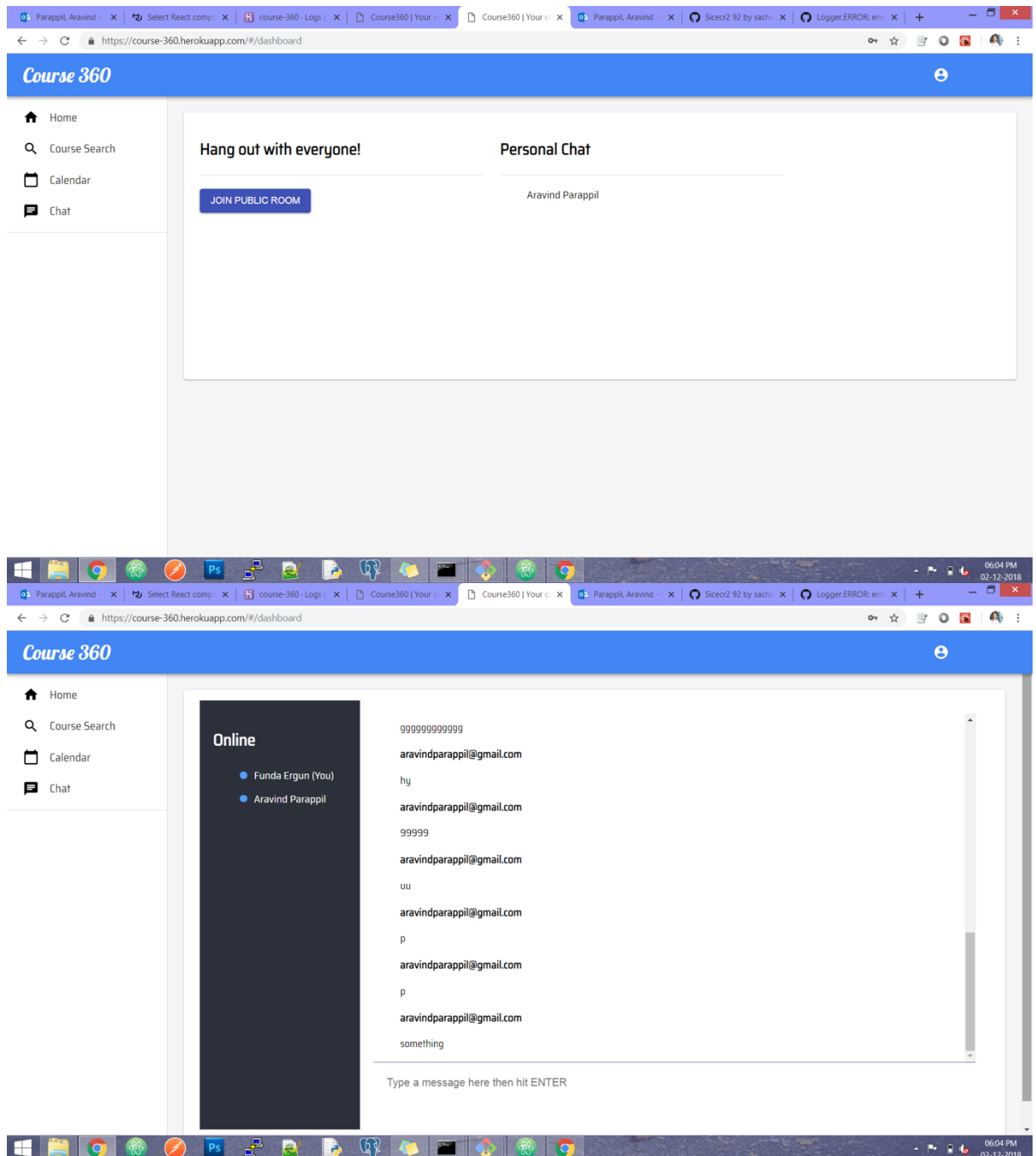
- User profile: The student has a user profile where in his/her personal details such as home address, permanent address, phone number, etc can be added. The user can also upload a profile picture for display.

The screenshot shows the 'Course 360' dashboard with the 'Your Details' form. The sidebar is identical to the previous screenshot. The form contains fields for personal information, including First Name, Middle Name, Last Name, Birthday, Email, Gender, Mobile Number, Program, Permanent Address, and Temporary Address. There are also buttons for 'Upload a profile image' and 'SUBMIT'.

- Customisable themes: The user can choose either of the themes for their dashboard.



- Chat feature: The group and personal chat feature is available for the student to have discussions.



Following are the functionalities available for the professor.

- User profile: The professor has a user profile where in his/her personal details such as home address, permanent address, phone number, etc can be added. The user can also upload a profile picture for display.

The screenshot shows a web browser with multiple tabs open. The active tab is 'Course360'. The URL is <https://course-360.herokuapp.com/?OTPForLogin=927278#/dashboard>. The page has a blue header with 'Course 360' and a shopping cart icon. A sidebar on the left contains a user profile picture and navigation links: Home, Course Search, and Calendar. The main content area is titled 'Your Details' and contains a form with the following fields:

- First Name: Aravind
- Middle Name: (empty)
- Last Name: Parappil
- Birthday: 29/10/2018
- Gender: Male (dropdown menu)
- Permanent Address: Luxe Gardens, Koppam, Palakkad, Kerala, India
- Temporary Address: C101 1750 N Range Rd, Bloomington Indiana
- Email: aravindparappil@gmail.com
- Mobile Number: + 8123254730
- Enter US number: (empty)
- CGPA: 3.9
- Program: Computer Science
- e.g CS/DS etc. (empty)

A 'SUBMIT' button is located at the bottom of the form. At the bottom of the page, there is a status bar showing 'node-v10.14.1-su... Cancelled' and a 'Show All' button.

- Customisable themes: The user can choose either of the themes for their dashboard.

The screenshot shows the same web browser with the 'Course360' tab. The URL is <https://course-360.herokuapp.com/?OTPForLogin=428648#/dashboard>. The page has a dark blue header with 'Course 360' and a shopping cart icon. A sidebar on the left contains a user profile picture and navigation links: Home, Course Search, Calendar, Chat, and Payment Portal. The main content area is titled 'Hang out with everyone!' and 'Personal Chat'. A 'JOIN PUBLIC ROOM' button is visible. A modal window titled 'Choose a theme' is open, showing two options: Default (selected) and Night Mode. A dropdown menu in the top right corner contains the following options: My Profile, Change Theme, and Logout.

- Calendar: The professor can get a schedule of all the classes over the entire semester in the calendar.

Course 360

Home
Course Search
Calendar

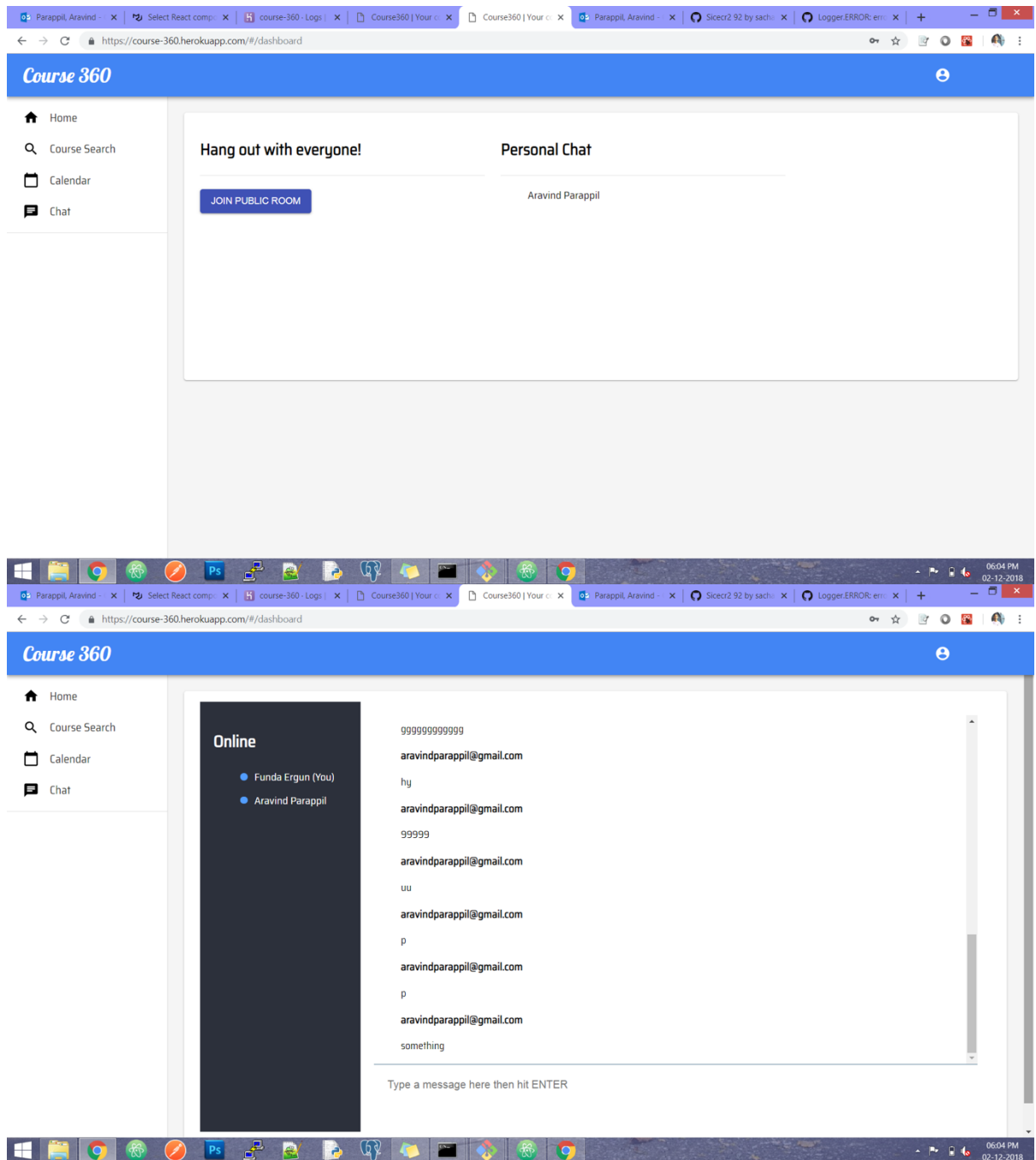
Your Schedule

Today Back Next September 2018 Month Week Work Week Day Agenda

Sun	Mon	Tue	Wed	Thu	Fri	Sat
26	27 Software Engineering	28	29 Software Engineering	30	31	01
02	03	04	05	06	07	08
09 Software Engineering	10	11 Software Engineering	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

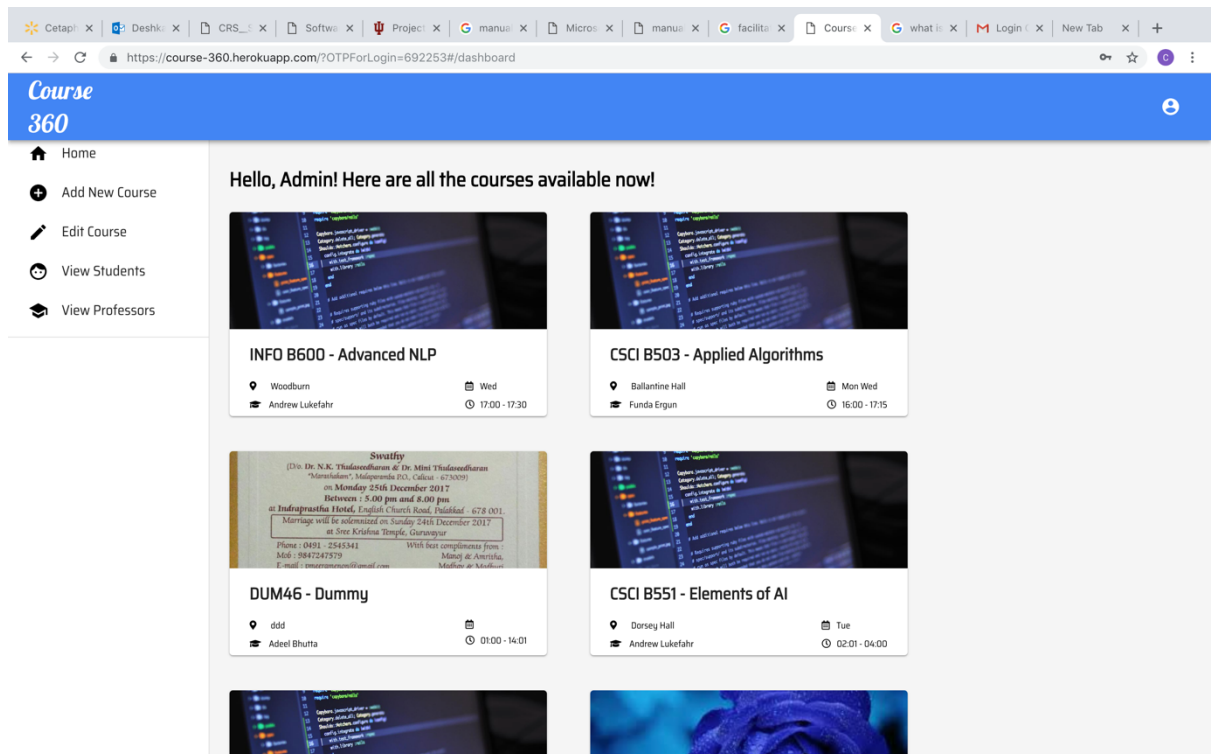
node-v10.14.1-Su..... Canceled Show All

- Chat: The group and personal chat feature is available for the professor as well.



Following are the functionalities available for the registrar.

- Home Page: This is the home page for the admin. It displays all the functionalities available for the admin.



- Add new course: The admin can add new courses by providing all the details.

The screenshot shows the Course 360 dashboard with the "Details of new course" form. The form includes fields for Course Title, Course Code, Description, Location, Professor, Start Time, End Time, and a checkbox for days of the week. There is also a section for uploading a banner image and an "ADD COURSE" button.

Details of new course

Course Title: _____

Course Code: _____

Description: _____

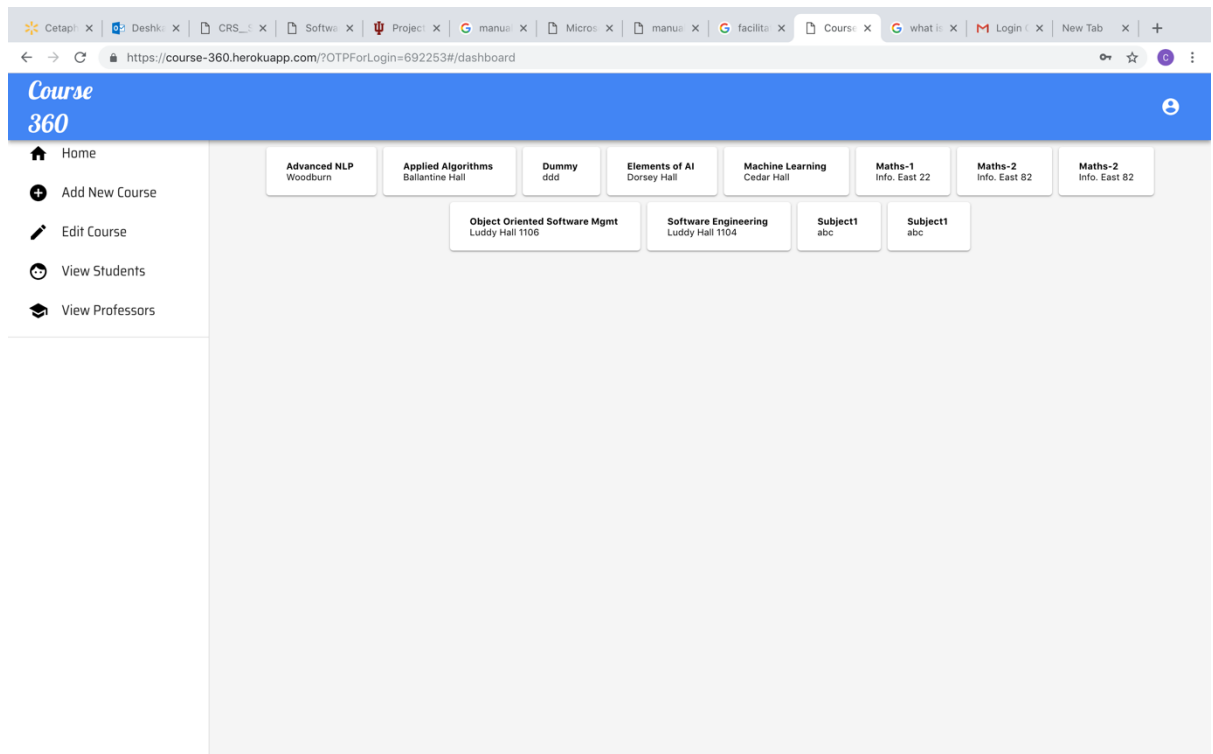
Location: _____

Professor: _____

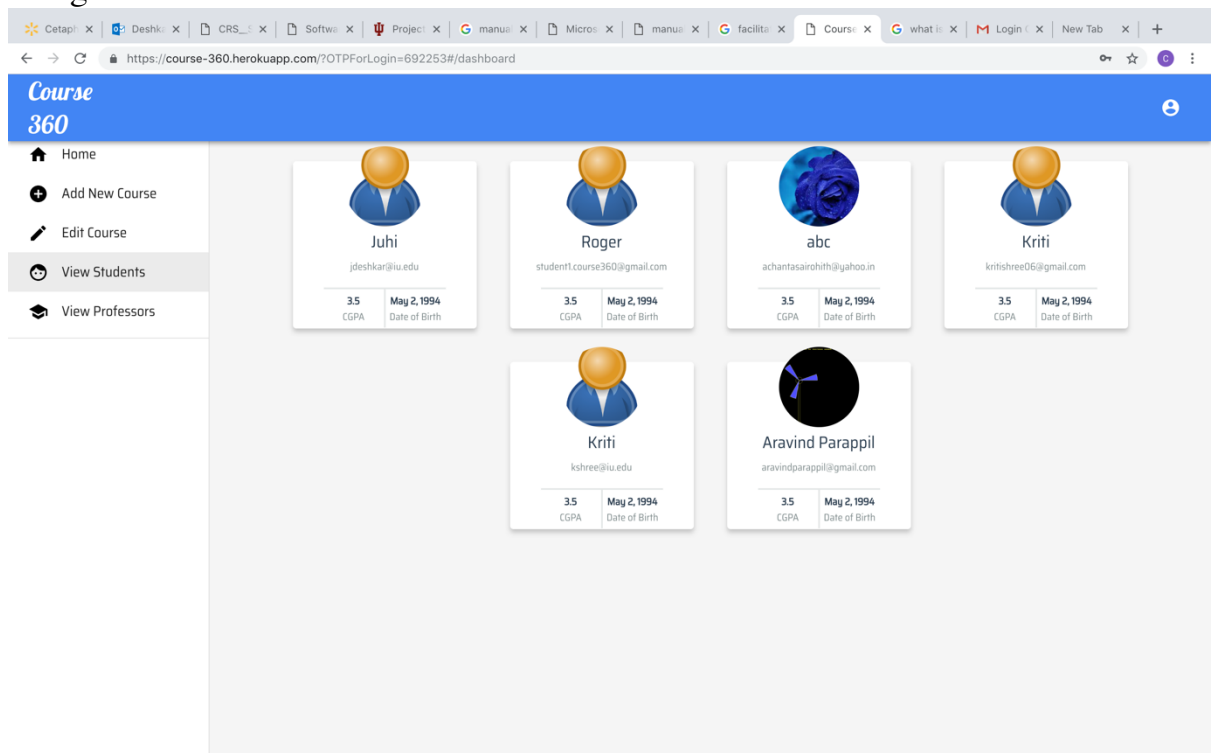
Start Time: ____ End Time: ____ ☐ Mon ☐ Tue ☐ Wed ☐ Thu ☐ Fri

Upload a banner image

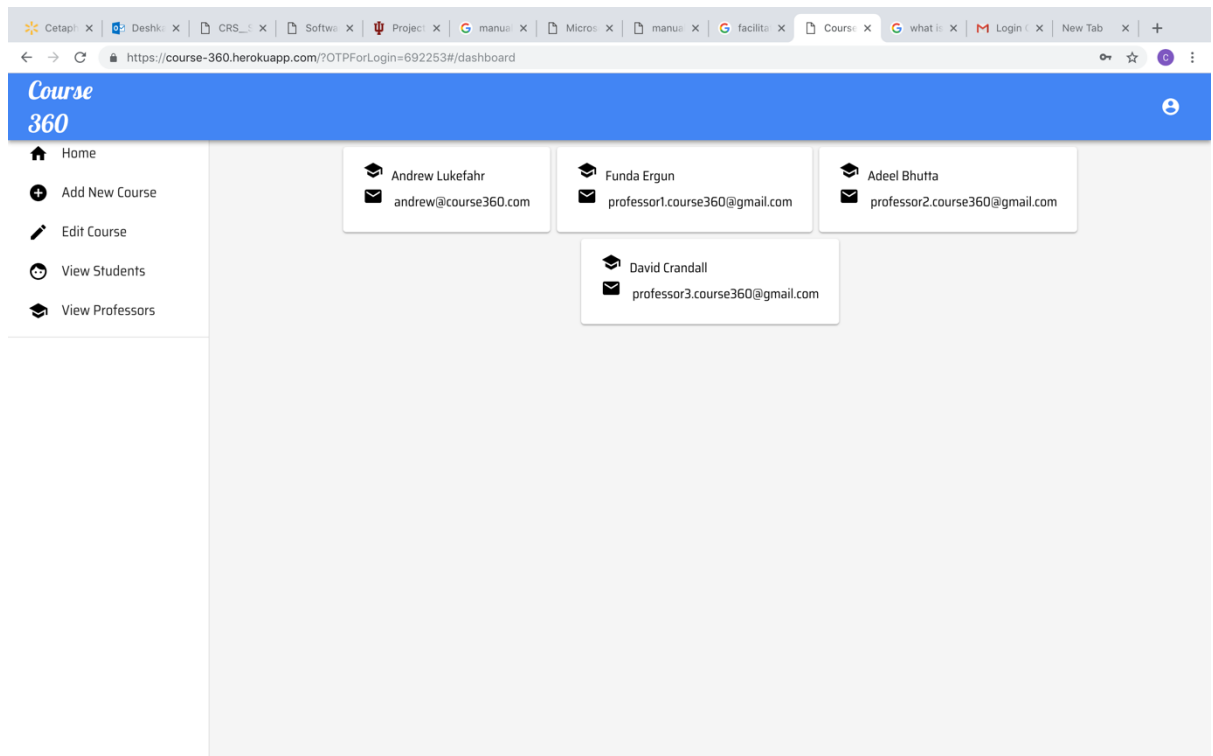
- Edit course: The existing courses can be added, deleted or updated.



- **View Students:** The admin can view all the students currently enrolled along with their details.



- **View Professors:** The admin can view the list of all the professors.



5. Known Defects

- The validation of course timings sometimes are not correctly identified sometimes.
- Calendar for showing the schedule of student or professor does not show recurring events properly.

Revision History:

NA