

SOFTWARE ENGINEERING



TEST PLAN DOCUMENT

STUDLIFE- College Automation Web Application

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SECTION 1:

INTRODUCTION

This is the Test Execution Document of the web application- *StudLife*, a software engineering project developed at the Information Technology Department of Indian Institute of Information Technology, Allahabad. *StudLife* is a web-application, meant to make the lives of the students of IIIT Allahabad a little easier, by eliminating some unnecessary overheads in their everyday lives via digitalization. This document presents the results of the execution of the different tests presented in the Test Plan Document of *StudLife*.

This document is organized as follows:

- ❑ **Section 1** is the introduction.
- ❑ **Section 2** introduces the results of Unit testing
- ❑ **Section 3** introduces the results of Integration testing.
- ❑ **Section 4** introduces the results of System testing.
- ❑ **Section 5** lists the bugs found during the testing phase and their fixes.

The results of the test execution will be presented in subsections as follows:

- ❑ Id and name of the executed test.
- ❑ Description of the test, or collected results.
- ❑ Errors found if any, and maybe a reference to the bug and fixes report. If an error is found on certain steps of the Test Case, the step number is given.

All test cases were first executed once and found bugs were fixed. Then all test cases were executed again and no further bugs were found.

Tests were run on the following environment:

A 64-bit operating system, x64-based processor. 12 GB RAM. Intel(R) Core(TM) i7-8550U CPU @1.80GHz @1.99GHz. Google Chrome Browser.

SECTION 2:

UNIT TESTING

Since we are working on a web-based application, Unit tests were created as screenshots of all the visible interfaces. Each minute component has been checked for its function for e.g. every button's activity has been captured and shown as a test case.

TEST CASES		
TEST CASE NO.	NAME	TEST CASE
1.	Student Login	Login page to check if Student can log into StudLife or not.
2.	Student: Outpass	Students can access the outpass functionality of the web-app by requesting an outpass.
3.	Student: Night Canteen	Students can access the night canteen functionality of the web-app by placing an order.
4.	Student: Digilocker	Students can access the digilocker functionality of the web-app by uploading files.
5.	Student: Health Centre	Students can access the outpass functionality of

		the web-app by viewing the schedule and booking an appointment.
6.	Warden Login	Login page to check if Warden can log into StudLife or not.
7.	Warden: View Request	Warden can view the details of the outpass request of a student
8.	Doctor Login	Login page to check if Doctor can log into StudLife or not.
9.	Doctor: View Appointment	Doctor can view all the appointments and can individually address them one by one
10.	Doctor: View Schedule	Doctor can view the weekly schedule of the doctors of the Health Centre
11.	Canteen Manager: Login	Login page to check if Canteen Manager can log into StudLife or not.
12.	Canteen Manager: View Order	The canteen manager can view all the order requests received and can individually address them one by one.
13.	Outpass: Request Outpass	The student can click on request outpass after filling the details in the

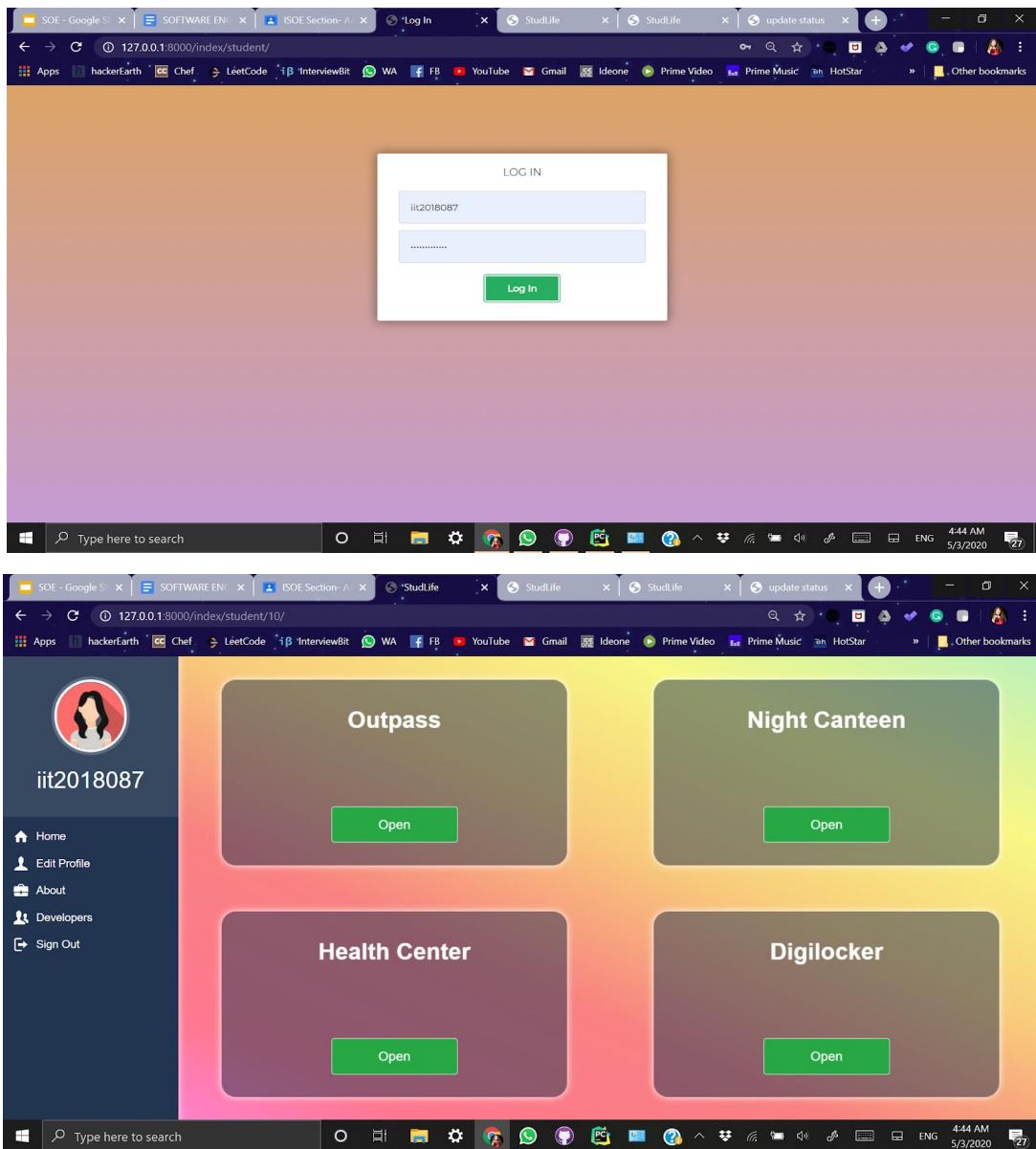
		outpass form.
14.	Outpass: Download	The student can download the outpass pdf if the outpass is granted by the warden.
15.	Outpass: Request Another Outpass	The student can request for another outpass after the request is granted by the warden
16.	Health Centre: View Schedule	The health centre executive can view the schedule and grant or reject the appointment requests accordingly.
17.	Health Centre: Book An Appointment	The student can click on Book Appointment after filling all the details in the form.
18.	Health Centre: Download	The student can download the appointment receipt if granted by the health centre executive.
19.	Health Centre: Request Another Appointment	The student can request for another appointment after the previous appointment request is either granted or declined.
20.	Night Canteen:Hostel Favourites	The student can choose from the hostel favourite items in order to add them in the cart.

21.	Night Canteen: Refreshments	The student can choose from the refreshment items in order to add them in the cart.
22.	Night Canteen: Fast Food	The student can choose from the fast food items in order to add them in the cart.
23.	Night Canteen: Main Course	The student can choose from the main course items in order to add them in the cart.
24.	Night Canteen: Add Item	The student can add an item to the cart by clicking on Add Item
25.	Night Canteen: View Cart	The student can view the cart by clicking on View Cart Button.
26.	Night Canteen: Remove Item	The student can remove an item from the cart as well.
27.	Night Canteen: Order Food	The student can order food after filling all the desired items in the cart
28.	Digilocker: Choose File	The student can select any number of files among the files stored
29.	Digilocker: Upload and View File	The student can upload a file to be stored in the digilocker.
30.	Digilocker: Download Your File	The student can download a particular file

		which has been stored
31.	Dashboard: About	This takes the users to the about page of StudLife showing the basic idea and functioning of the application.
32.	Dashboard: Home	This takes the user to the main screen displaying the four login options.
33.	Dashboard: Developers	This takes the users to the developers page of StudLife showing the contacts of the developers of the webpage
34.	Dashboard: Edit Profile	This allows the users to make the desired changes in their profiles
35.	Dashboard: Back to Profile	This takes the user back to their initial profile page.
36.	Dashboard: Sign Out	This allows the users to sign out from their current login sessions.

TEST CASE 1: Student Login

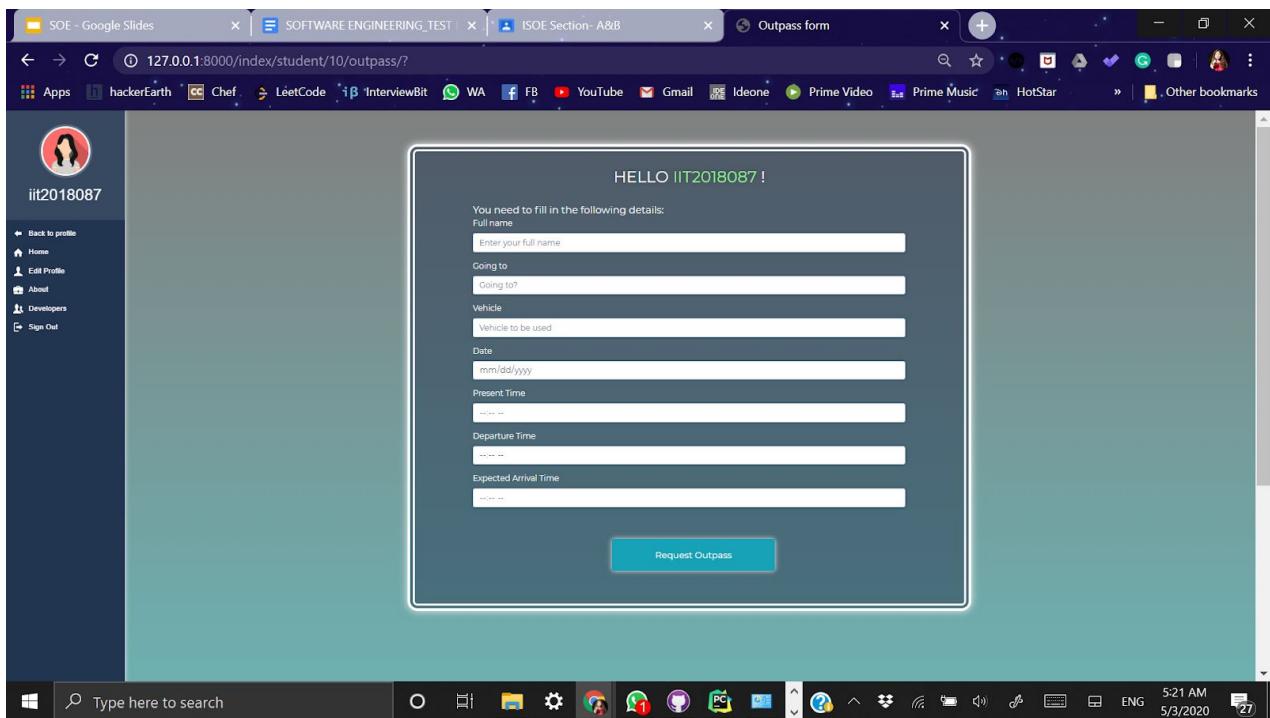
This is the login page to check if the student can log in to StudLife or not. After the student has entered his/her login credentials, he/she must successfully log in. The student is redirected to the next page, which is the student landing page. This shows that the test case 1 is passed.



TEST CASE 2: Student: Outpass

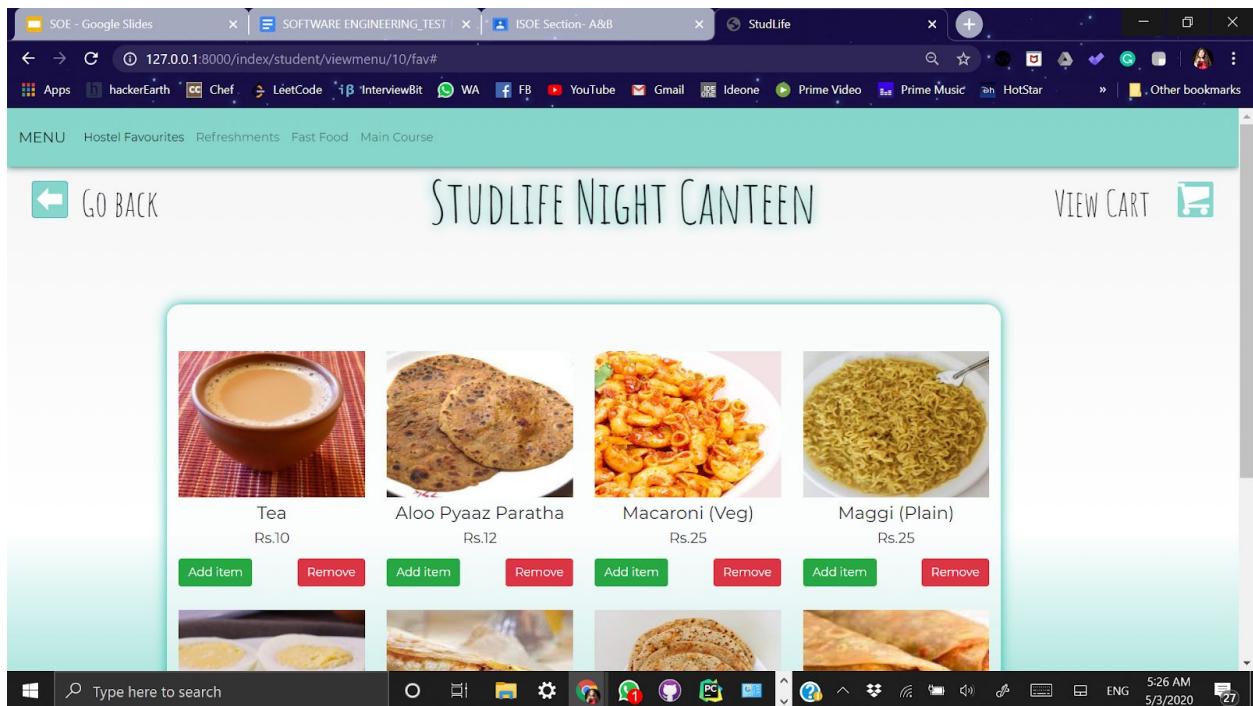
The student can access the outpass functionality by clicking on the outpass button displayed on the profile after logging in. This takes the student to a page with the outpass form.

If the page shown below is displayed successfully, this test case is considered to be passed.



TEST CASE 3: Student: Night Canteen

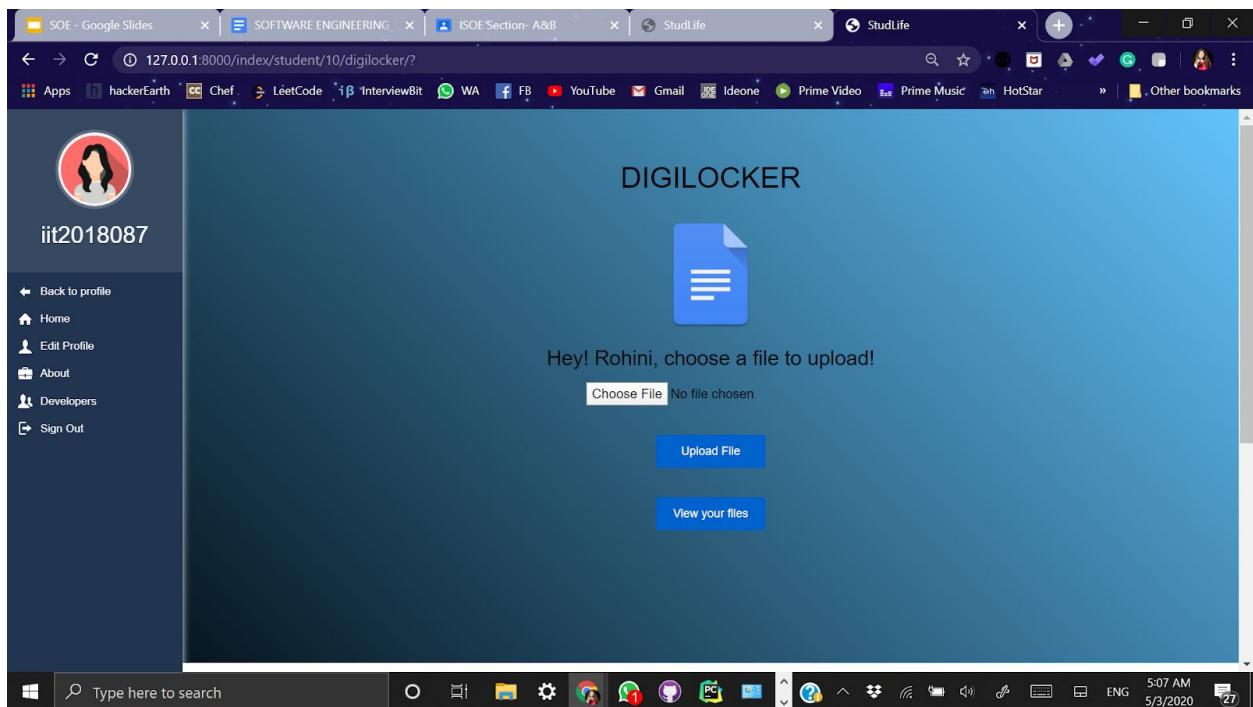
The student can access the night canteen functionality by clicking on the Night Canteen button displayed on the profile after logging in. This takes the student to a page where the student can order the food. If the page shown below is displayed successfully, this test case 3 is considered to be passed.



TEST CASE 4: Student: Digilocker

The student can access the digilocker functionality by clicking on the digilocker button displayed on the profile after logging in. This takes the student to a page with the upload view files option.

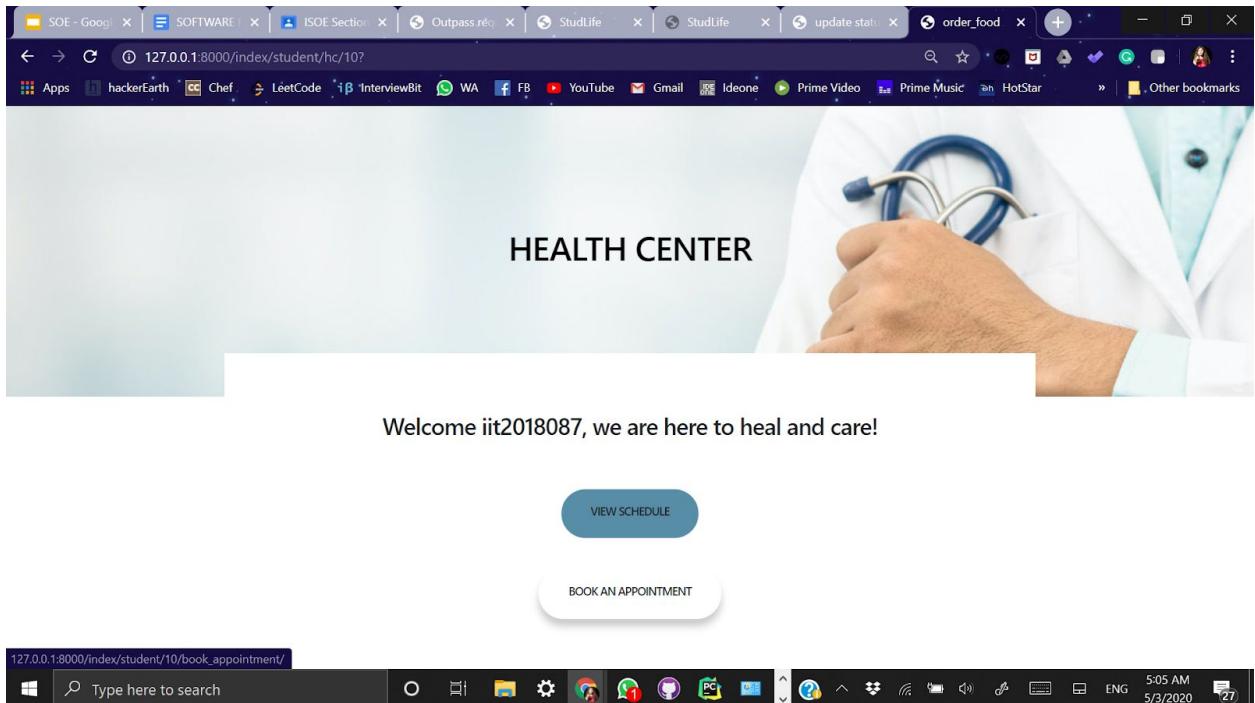
If the page shown below is displayed successfully, this test case 4 is considered to be passed.



TEST CASE 5: Student: Health Centre

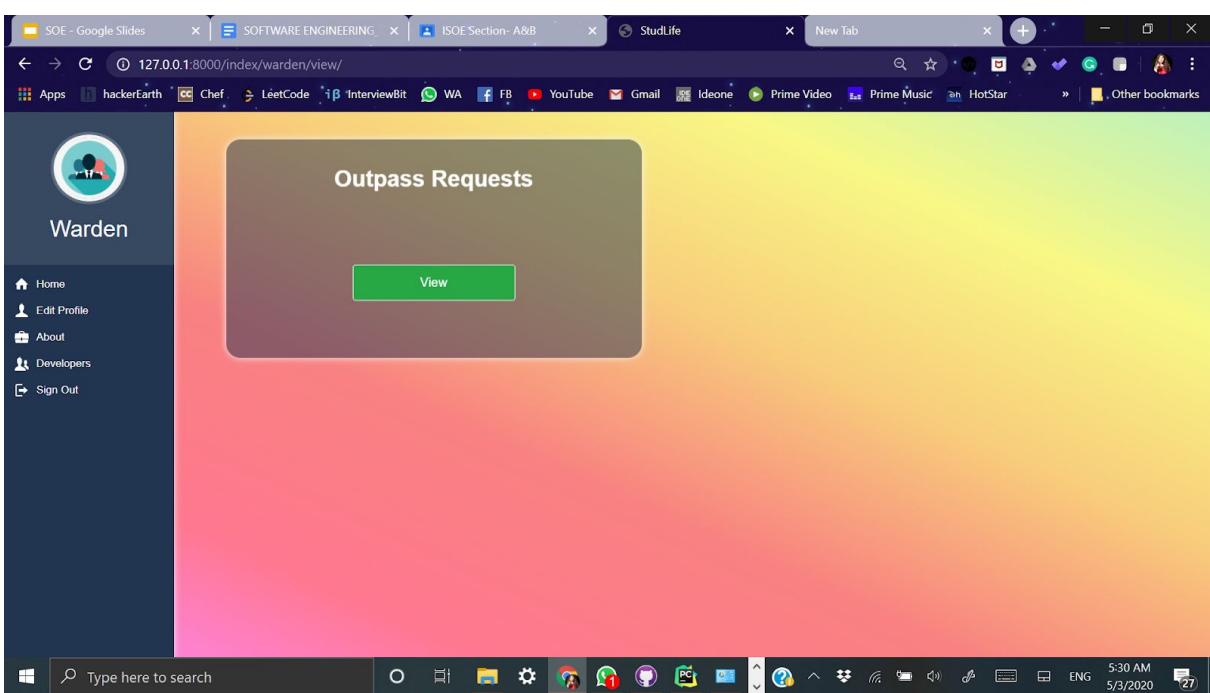
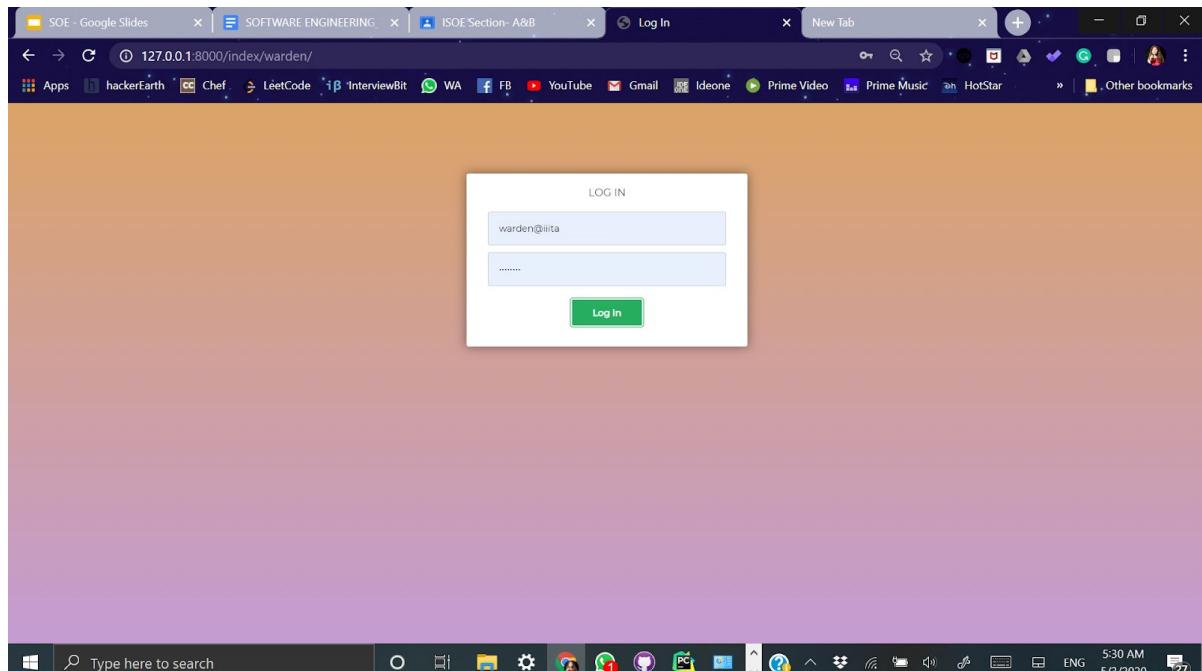
The student can access the book appointment functionality by clicking on the Health centre button displayed on the profile after logging in. This takes the student to the health centre page with two options: one for viewing schedule and the other for booking an appointment.

If the page shown below is displayed successfully, this test case 5 is considered to be passed.



TEST CASE 6: Warden: Login

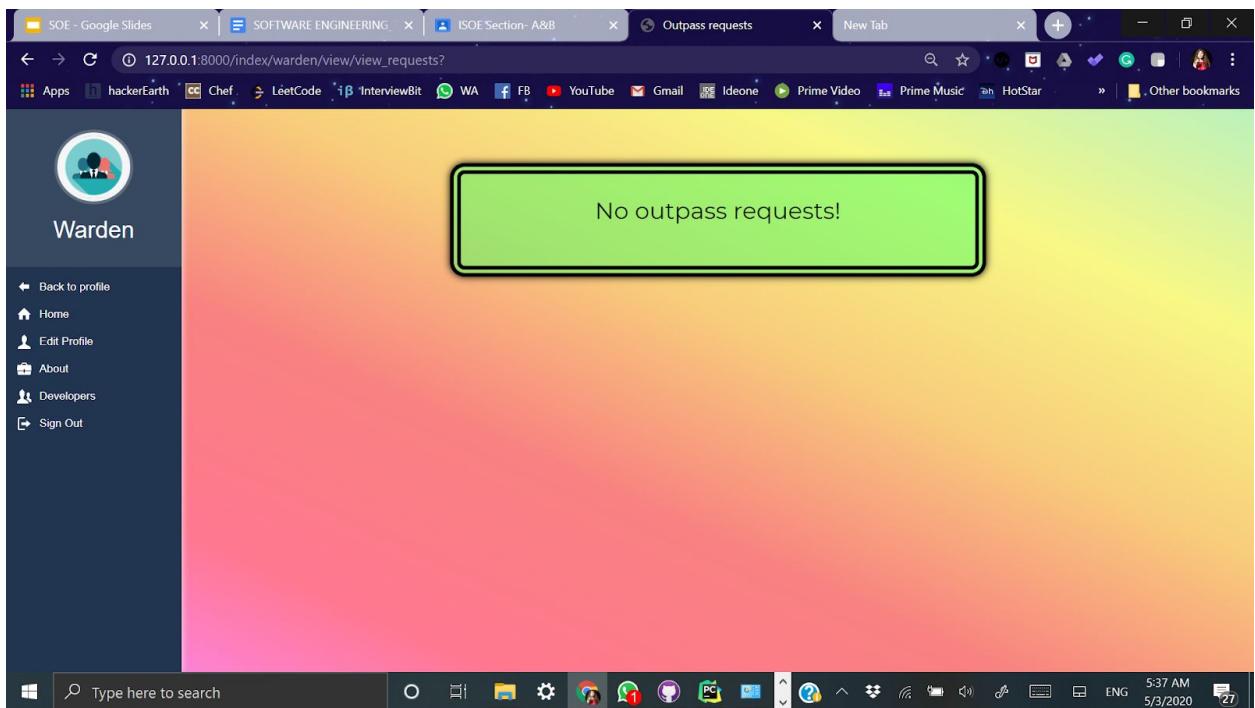
This is the login page to check if the warden can log in to StudLife or not. After the warden has entered her login credentials, she must successfully log in. The warden is redirected to the next page, which is the warden landing page. This shows that the test case 6 is passed.



TEST CASE 7: Warden: View Request

Warden can view the details of the outpass request of a student. On clicking this button the outpass form of that particular student will be visible to the warden. Two buttons: accept and reject will be also visible and warden now can either accept or reject the

If the page shown below is displayed successfully, this test case 7 is considered to be passed.



TEST CASE 8: Doctor Login

This is the login page to check if the HC executive can log in to StudLife or not. After the HC executive has entered his/her login credentials, he/she must successfully log in. The executive is then redirected to the next page, which is the HC executive landing page. This shows that the test case 8 is passed.

The image consists of two screenshots of a web browser window, likely Microsoft Edge, demonstrating the login process and the resulting dashboard for an HC Executive.

Screenshot 1: Login Page

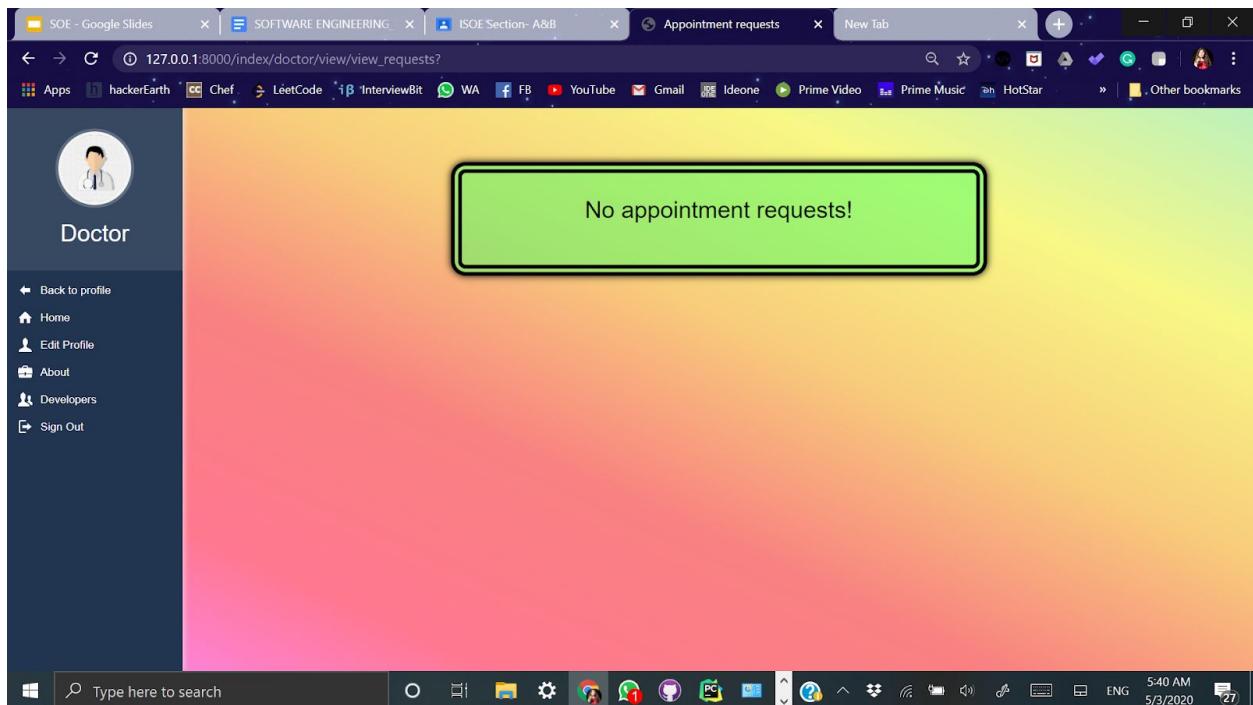
A screenshot of a browser window titled "Doctor Login". The URL in the address bar is "127.0.0.1:8000/index/doctor/". The page displays a "LOG IN" form with two input fields: one containing "executive.hc@iiti.ac.in" and another containing a password. A green "Log In" button is at the bottom right of the form.

Screenshot 2: HC Executive Dashboard

A screenshot of a browser window titled "StudLife". The URL in the address bar is "127.0.0.1:8000/index/doctor/view/". The page features a dark sidebar on the left with a user icon and the text "HC Executive". Below this are links: Home, Edit Profile, About, Developers, and Sign Out. The main content area is divided into two sections: "Schedule" (with a "View" button) and "Appointment Requests" (with a "View" button). The top of the browser window shows several open tabs, including "SOE - Google Slides", "SOFTWARE ENGINEERING", "ISOF Section- A&B", and "New Tab". The taskbar at the bottom of the screen shows various pinned icons and the system status.

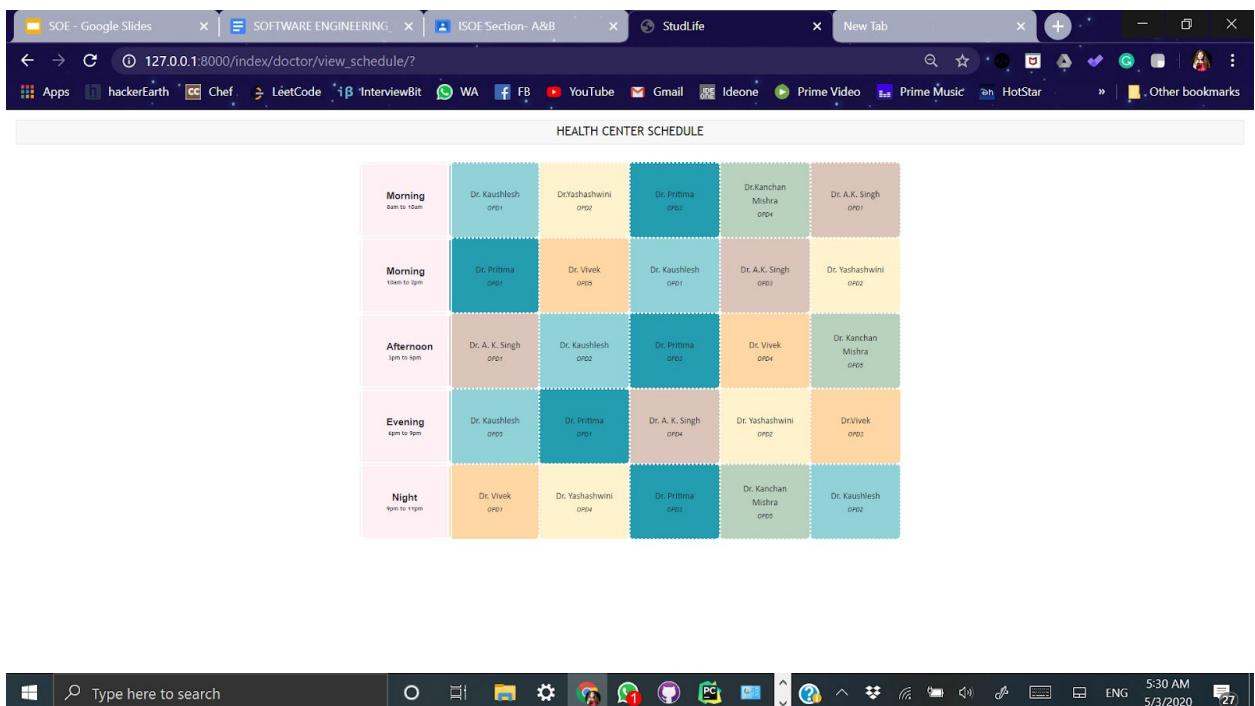
TEST CASE 9: Doctor: View Appointment

The HC Executive can view all the appointments and can individually address them one by one and by clicking on this button. The following page shows the details of the student who requested for the appointment and two buttons accept or reject whether to accept the appointment or not. If the following page is displayed this indicates that test case 9 has passed.



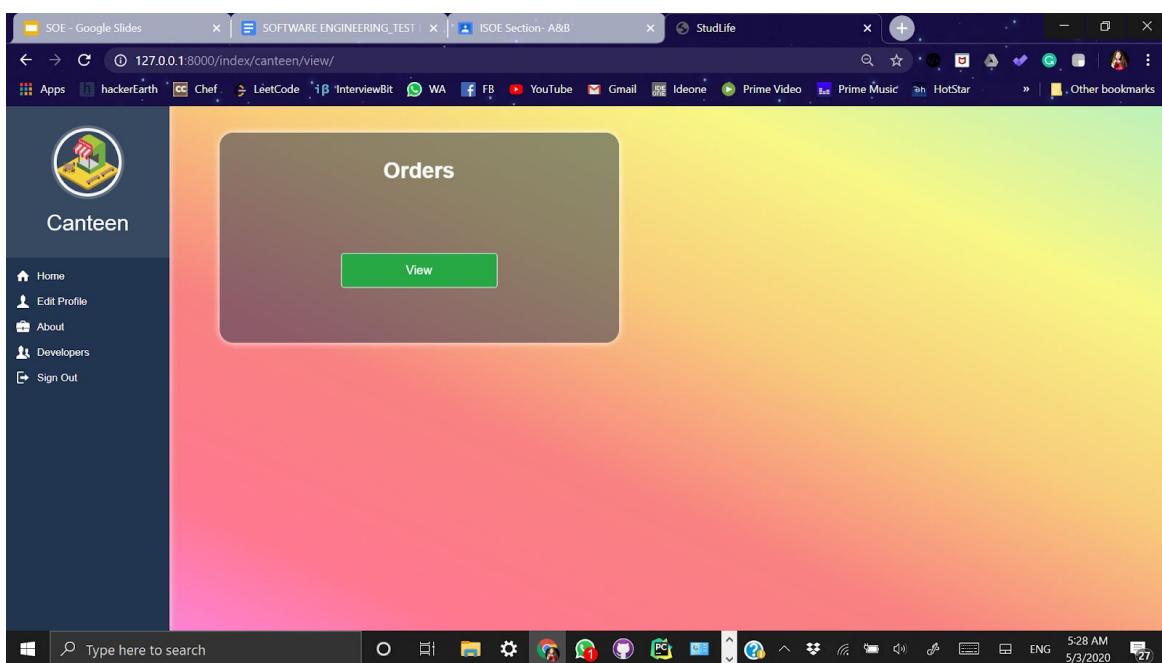
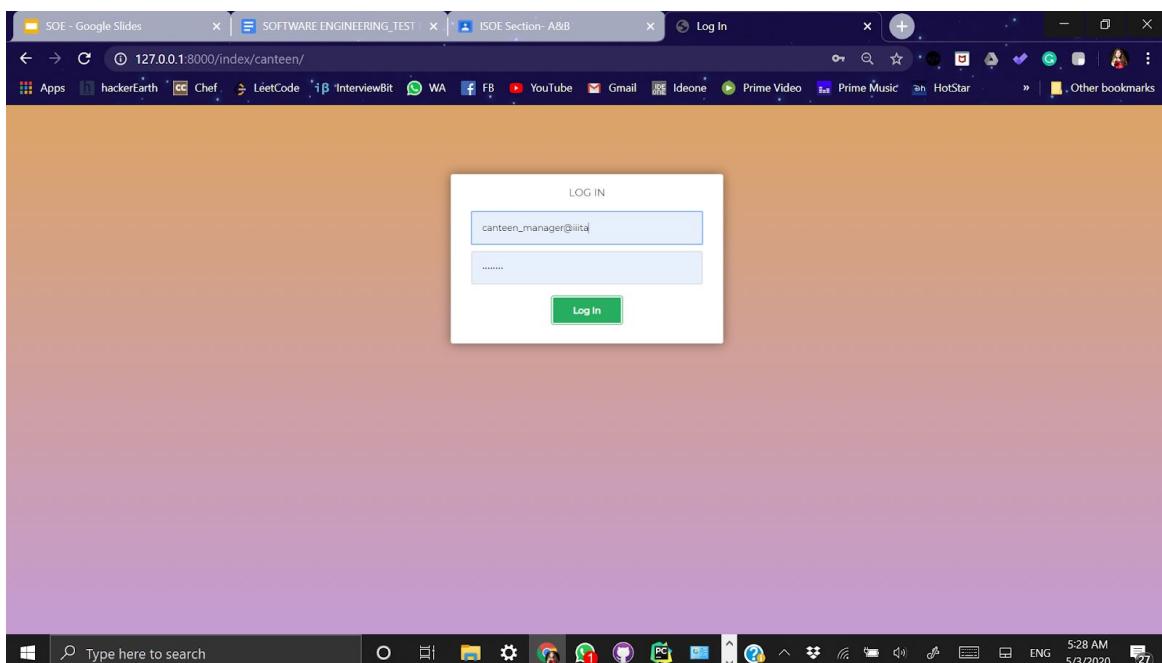
TEST CASE 10: Doctor: View schedule

The HC Executive can view the schedule of the doctors and thus grant/reject the appointment requests accordingly by clicking on the view schedule button. The following page showing the time table of the doctors should be displayed which indicates that this test case is passed.



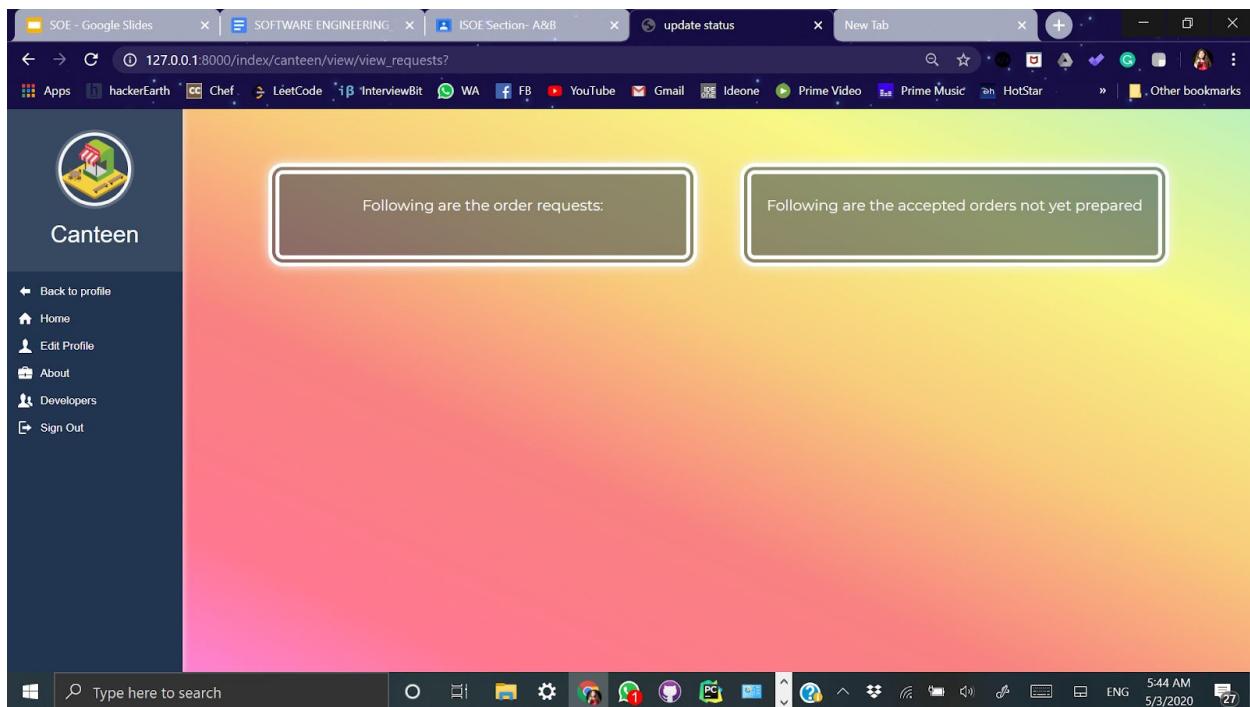
TEST CASE 11: Canteen Manager: Login

This is the login page to check if the Canteen Manager can log in to StudLife or not. After the Canteen Manager has entered his/her login credentials, he/she must successfully log in. The executive is then redirected to the next page, which is the Canteen Manager landing page. This shows that the test case 11 is passed.



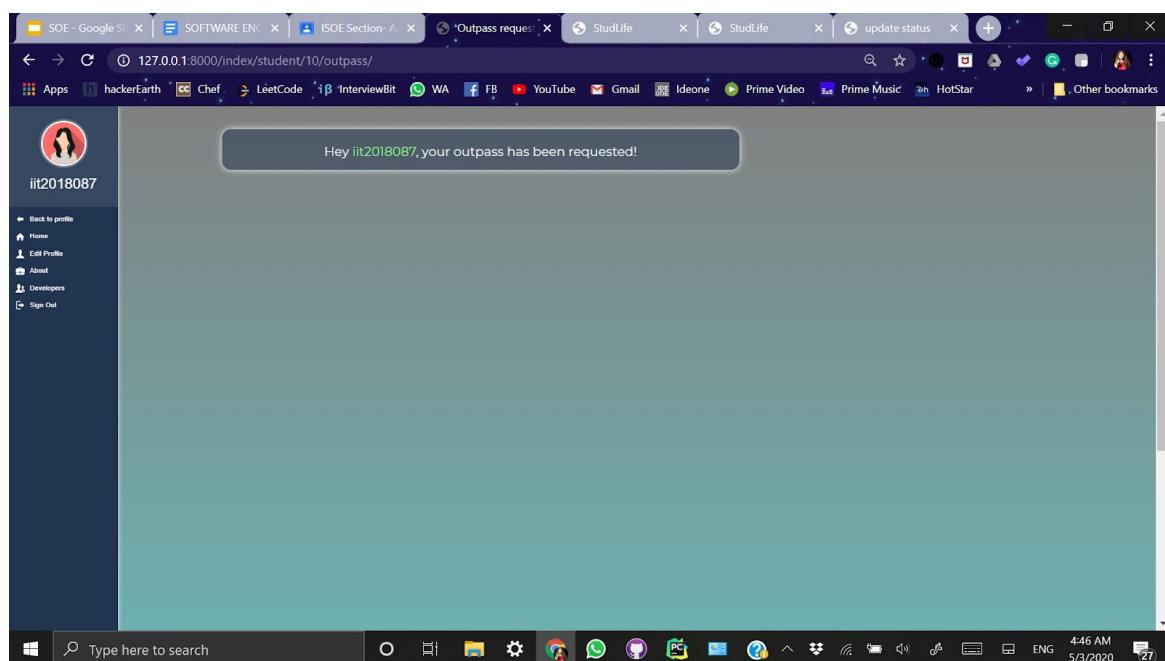
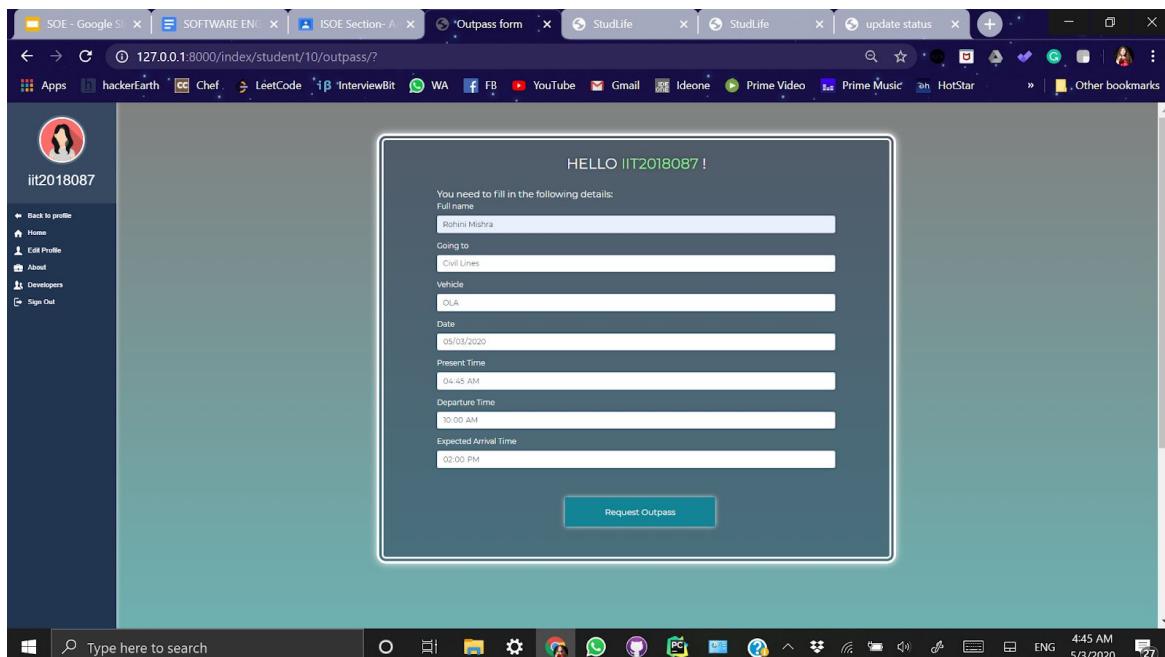
TEST CASE 12: Canteen Manager: view orders

The canteen manager should be able to view all the order requests placed by the students. The following page showing all the order requests should be displayed by clicking on this button indicating that this test case is passed.



TEST CASE 13: Outpass: Request Outpass

After filling all the required details in the form the student when presses the request outpass button it should show the confirmation to the student that the request has been received and will be further passed to the warden. If the following page is displayed then the test case is said to be passed



TEST CASE 14: Outpass: Download

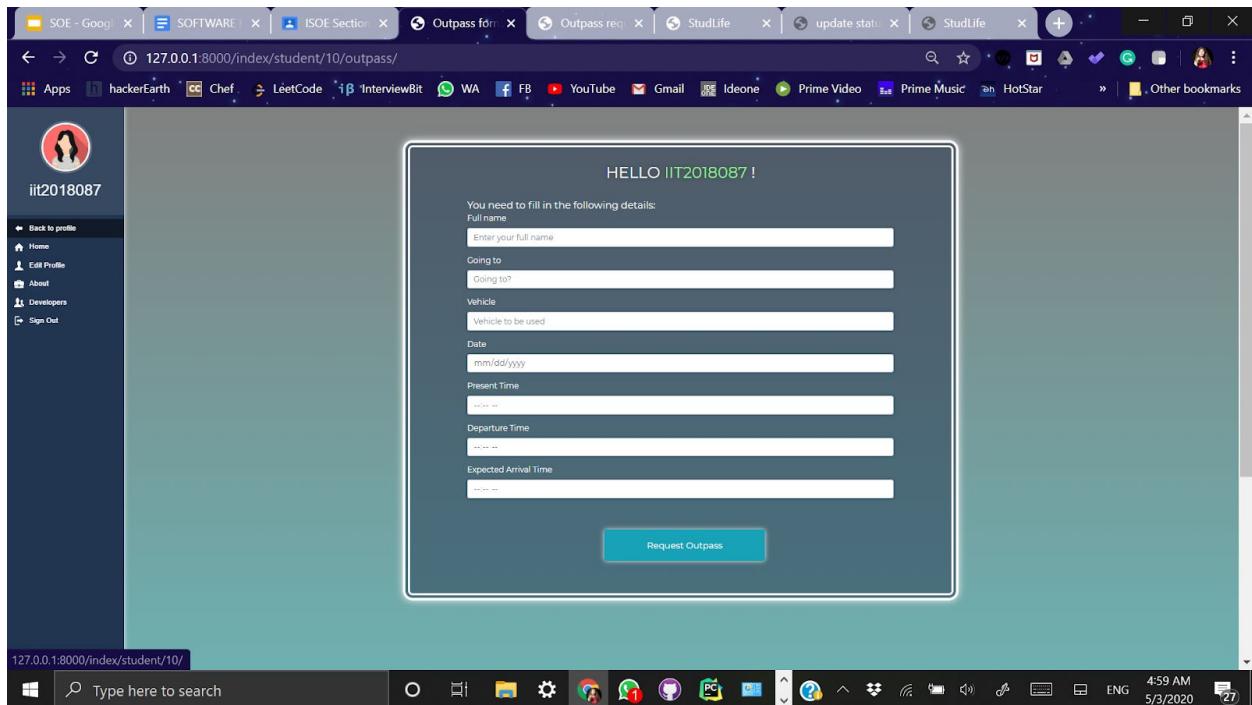
If the student is granted an outpass, she should be able to download it by clicking on this button. The following pdf should be downloaded displaying the exact information that the student filled in the outpass form indicating that this test case is passed.

The screenshot shows a web browser window with multiple tabs open. The active tab displays a message: "Hey iit2018087, your outpass has been granted!" with a "Download" button. Below the browser is a taskbar with various icons and a search bar. A second window below shows a PDF titled "Outpass for" containing the following text:

Full name : Rohini Mishra
Going to : Civil Lines
Vehicle :OLA
Date :May 3, 2020
Current time : 4 a.m.
Departure time :10 a.m.
Expected arrival time :2 p.m.
Permission : Granted

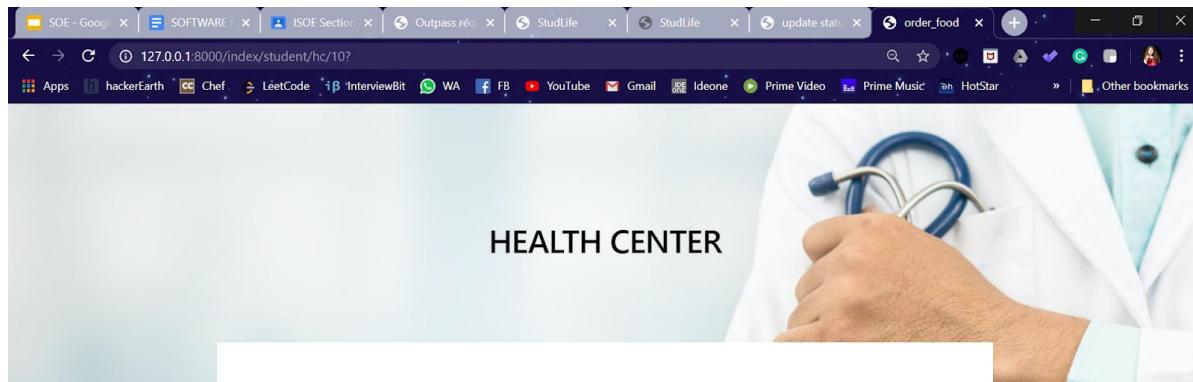
TEST CASE 15: Outpass: Request Another Outpass

If the student is granted an outpass, she should be able to request for one another outpass by clicking on this button. The following form should be displayed asking the student to fill in the exact information indicating that this test case is passed.



TEST CASE 16: Health Centre: View schedule

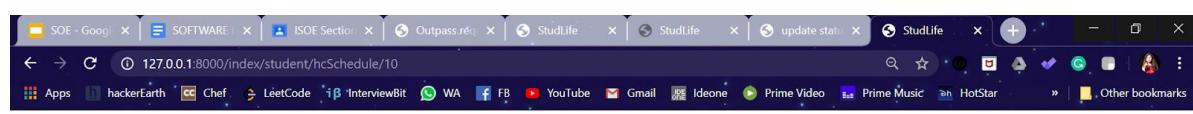
The student should be able to view the schedule of the Health Centre to be able to make the appointment requests accordingly, The following page showing the time table of the doctors should be displayed for this test case to be passed.



Welcome iit2018087, we are here to heal and care!

[VIEW SCHEDULE](#)

[BOOK AN APPOINTMENT](#)



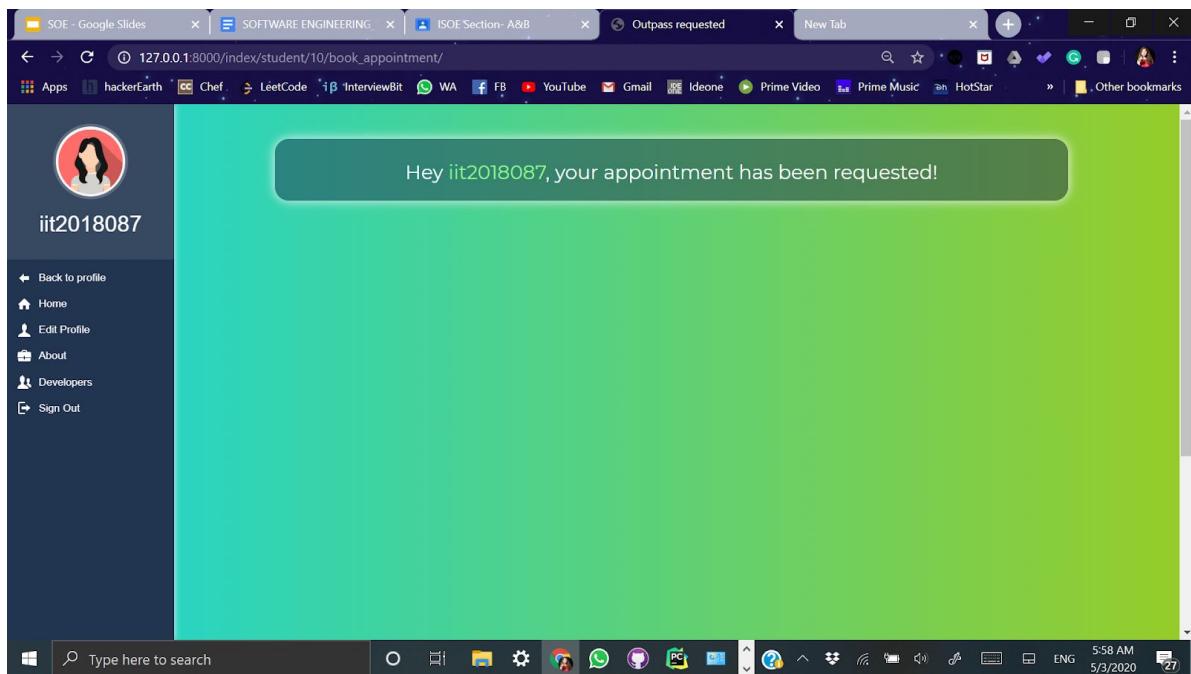
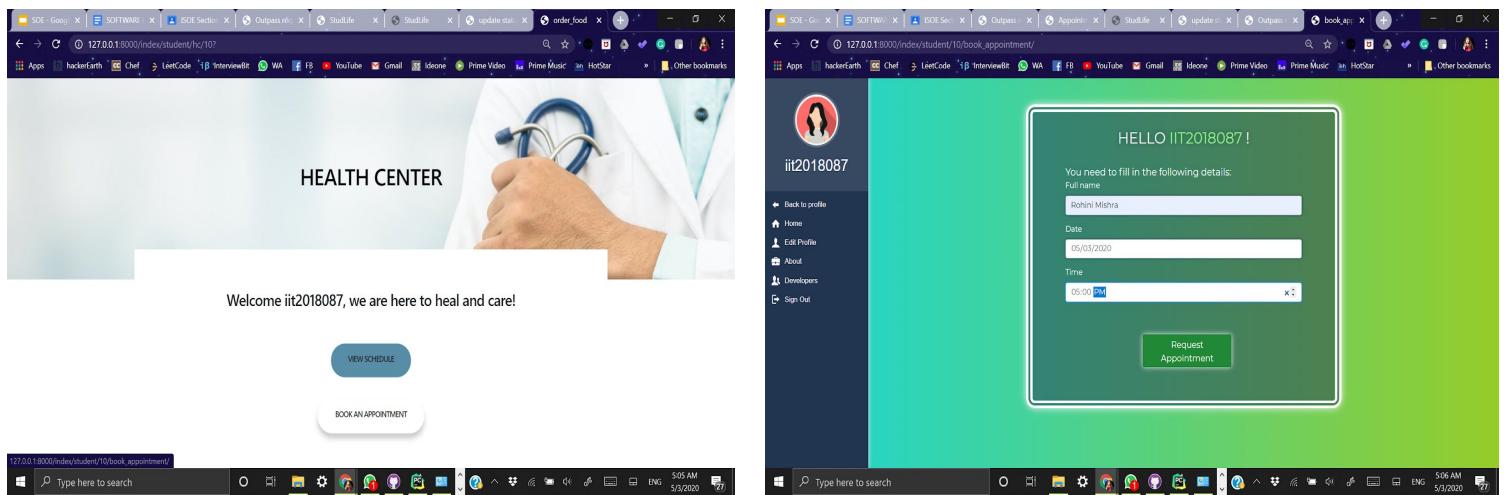
HEALTH CENTER SCHEDULE

Morning 8am to 1pm	Dr. Kaushlesh GP01	Dr. Yashashwini GP02	Dr. Prithma GP03	Dr. Kanchan Mishra GP04	Dr. A.K. Singh GP05
Morning 1pm to 2pm	Dr. Prithma GP03	Dr. Vivek GP05	Dr. Kaushlesh GP01	Dr. A.K. Singh GP05	Dr. Yashashwini GP02
Afternoon 2pm to 4pm	Dr. A. K. Singh GP01	Dr. Kaushlesh GP02	Dr. Prithma GP03	Dr. Vivek GP04	Dr. Kanchan Mishra GP04
Evening 4pm to 9pm	Dr. Kaushlesh GP05	Dr. Prithma GP03	Dr. A. K. Singh GP04	Dr. Yashashwini GP02	Dr. Vivek GP03
Night 9pm to 11pm	Dr. Vivek GP01	Dr. Yashashwini GP04	Dr. Prithma GP03	Dr. Kanchan Mishra GP04	Dr. Kaushlesh GP02



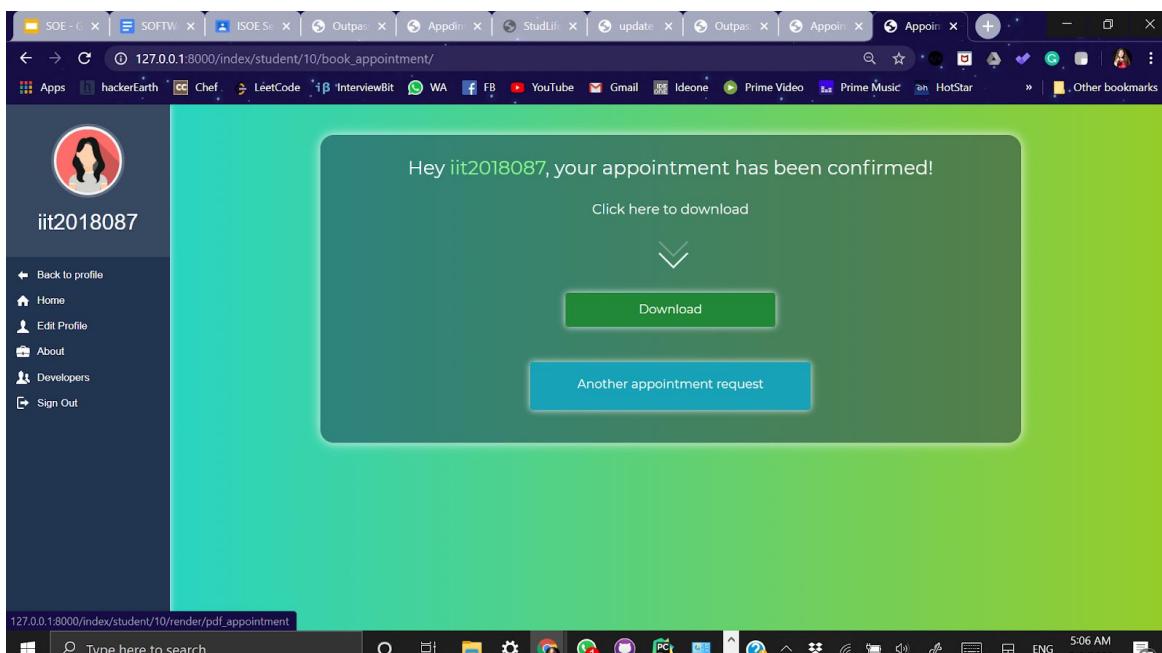
TEST CASE 17: Health Centre: Book An Appointment

After filling all the required details in the form the student when presses the book an appointment button it should show the confirmation to the student that the request has been received and will be further passed to the health centre. If the following page is displayed, then the test case is said to be passed.



TEST CASE 18: Health Centre: Download

If the student is granted an appointment, he/she should be able to download it by clicking on this button. The following pdf should be downloaded displaying the exact information that the student filled in the appointment form indicating that this test case is passed.

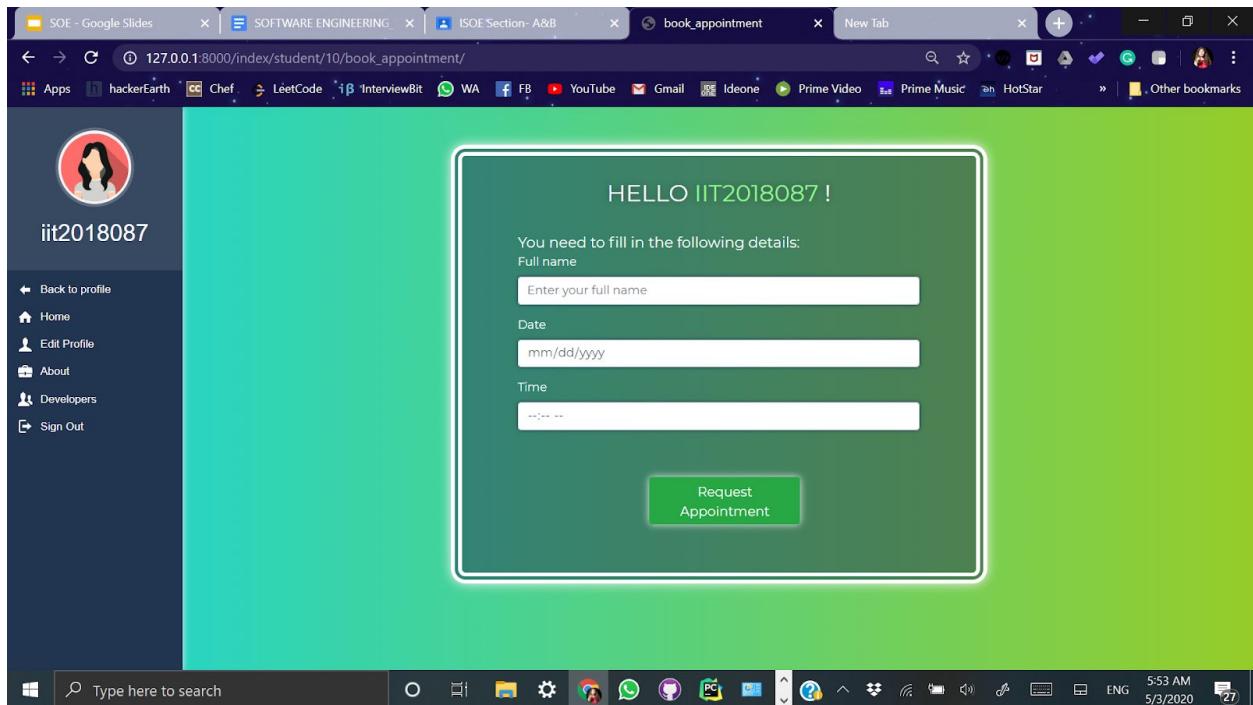


The screenshot shows a web browser window with a green header bar. The main content area displays a confirmation message: "Hey iit2018087, your appointment has been confirmed!" Below this, there is a "Click here to download" link with a downward arrow icon and a green "Download" button. At the bottom of the main content area is a blue "Another appointment request" button. On the left side, there is a sidebar with a user profile picture and the identifier "iit2018087". The sidebar also contains links for "Back to profile", "Home", "Edit Profile", "About", "Developers", and "Sign Out". The browser's address bar shows the URL "127.0.0.1:8000/index/student/10/book_appointment/".

Below the browser window, a separate screenshot of a PDF viewer window titled "pdf.pdf" is shown. The PDF content is titled "Appointment for iit2018087" and lists the following details:
Full name : Rohini Mishra
Date : May 3, 2020
Time : 5 p.m.
Appointment Status : Booked

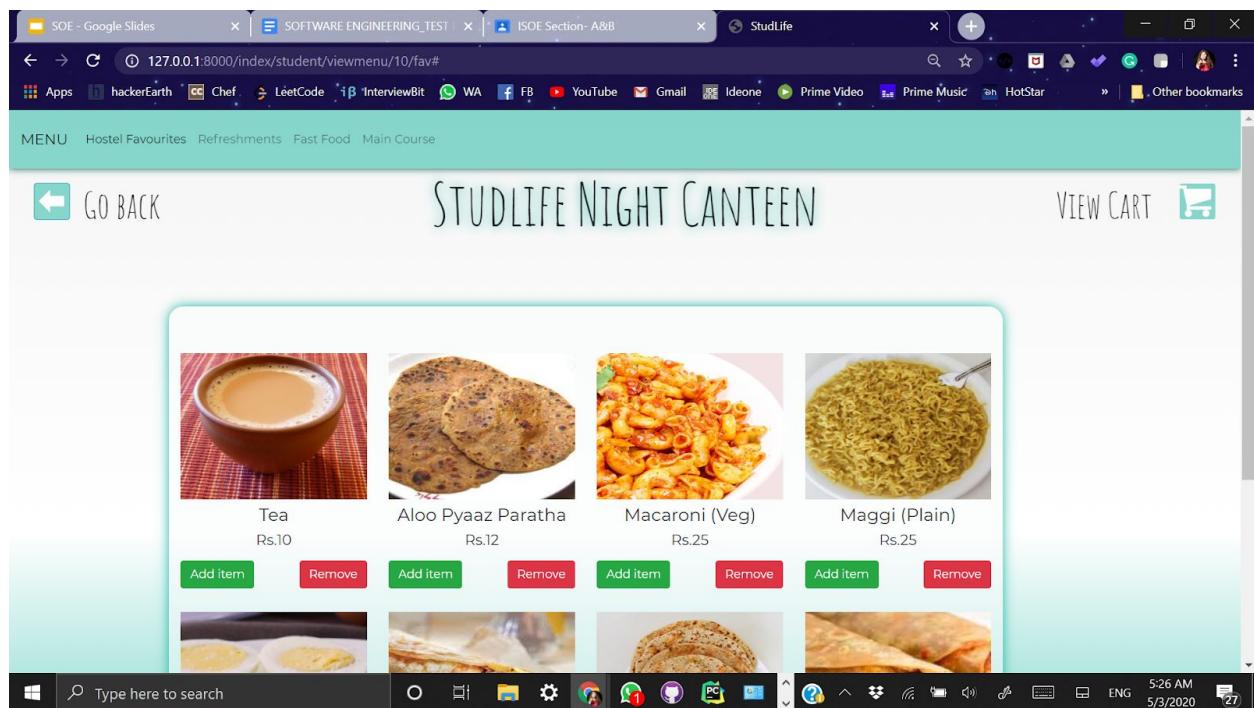
TEST CASE 19: Health Centre: Request Another Appointment

Whether or not the student is granted an appointment, he/she should be able to request one another appointment by clicking on this button. The following form should be displayed asking the student to fill in the exact information indicating that this test case is passed.



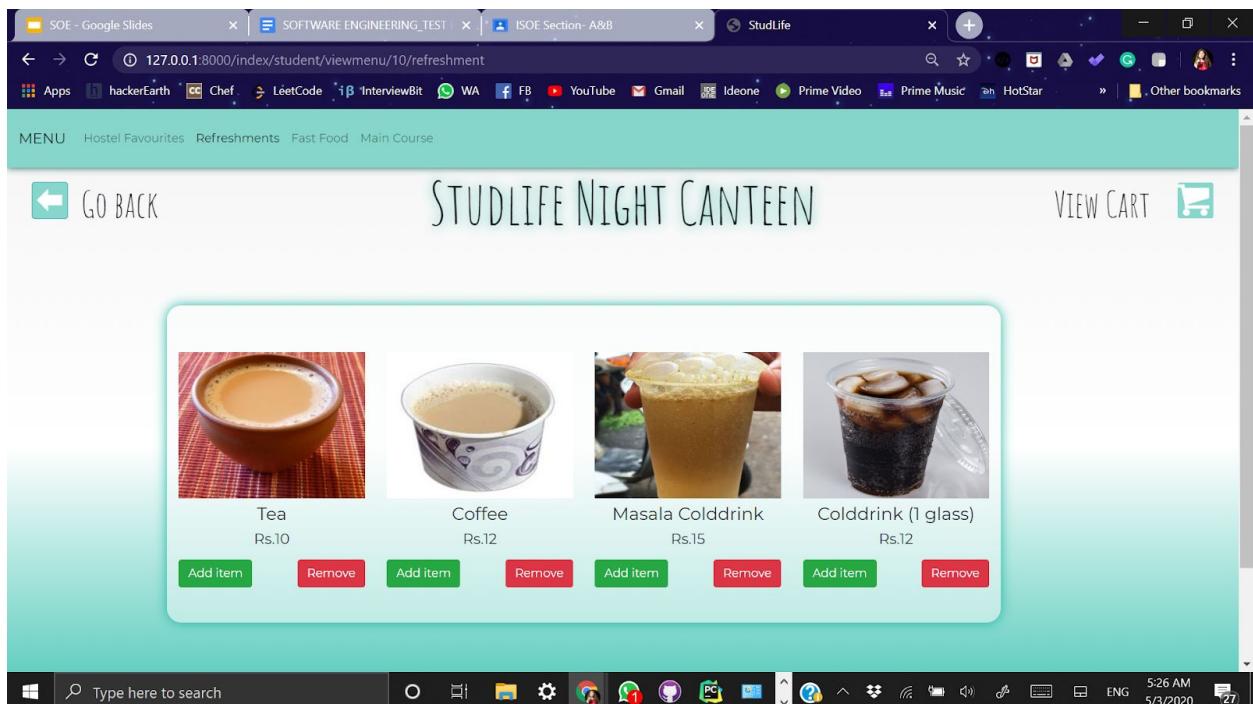
TEST CASE 20: Night Canteen: Hostel Favourites

The student should be able to place an order by choosing items from a list of hostel favourite item options. The following page showing the hostel favourite night canteen items should be displayed for this test case to be passed.



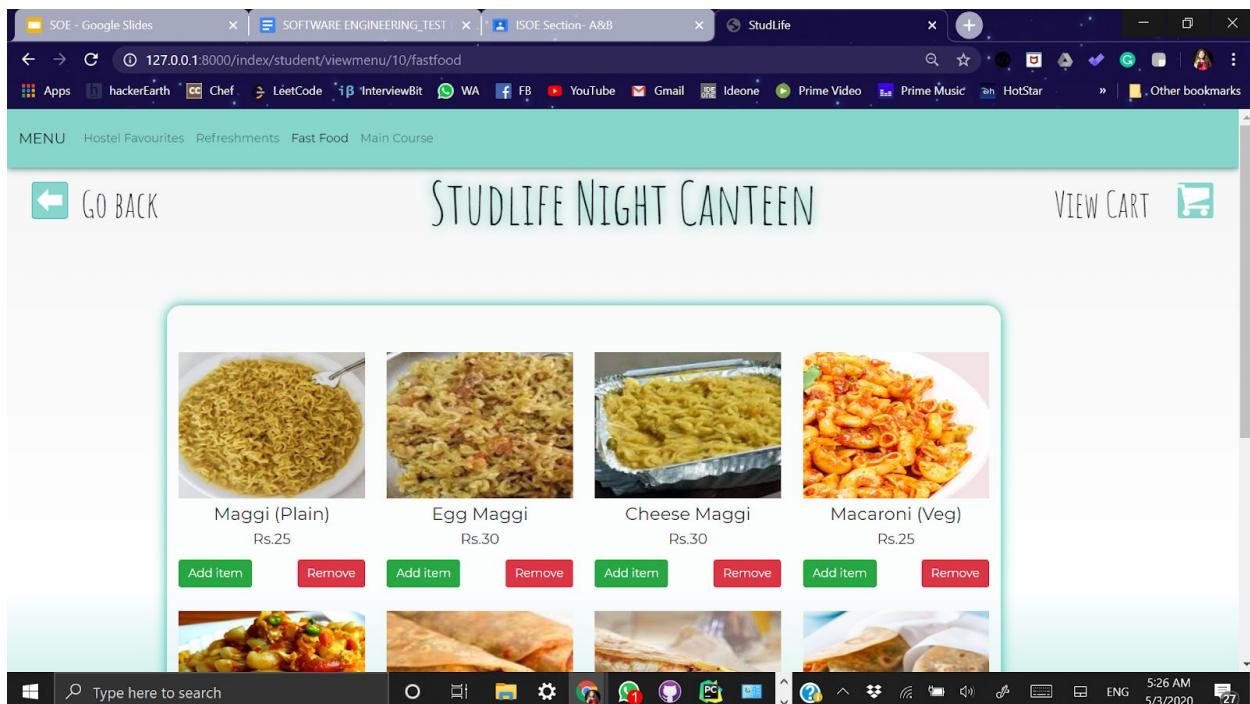
TEST CASE 21: Night Canteen: Hostel Refreshments

The student should be able to place an order by choosing items from a list of hostel refreshment options. The following page showing the hostel refreshment night canteen items should be displayed for this test case to be passed.



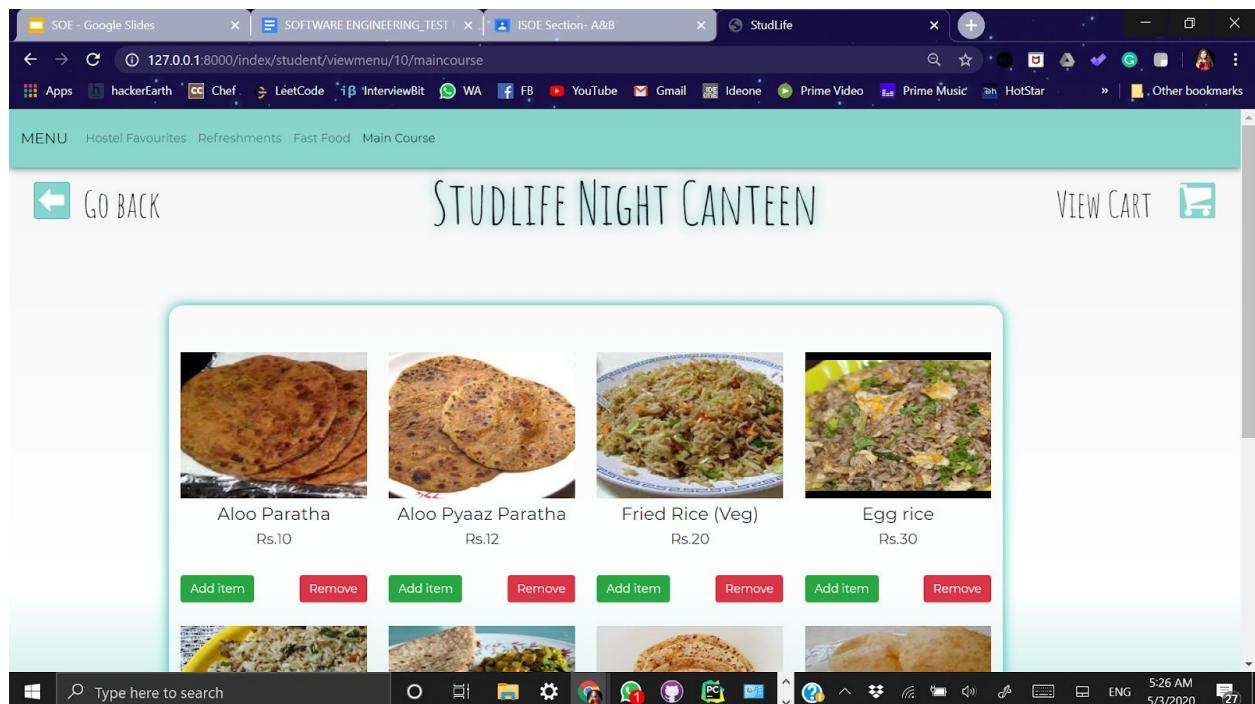
TEST CASE 22: Night Canteen: Fast Food

The student should be able to place an order by choosing items from a list of fast food item options. The following page showing the fast food night canteen items should be displayed for this test case to be passed.



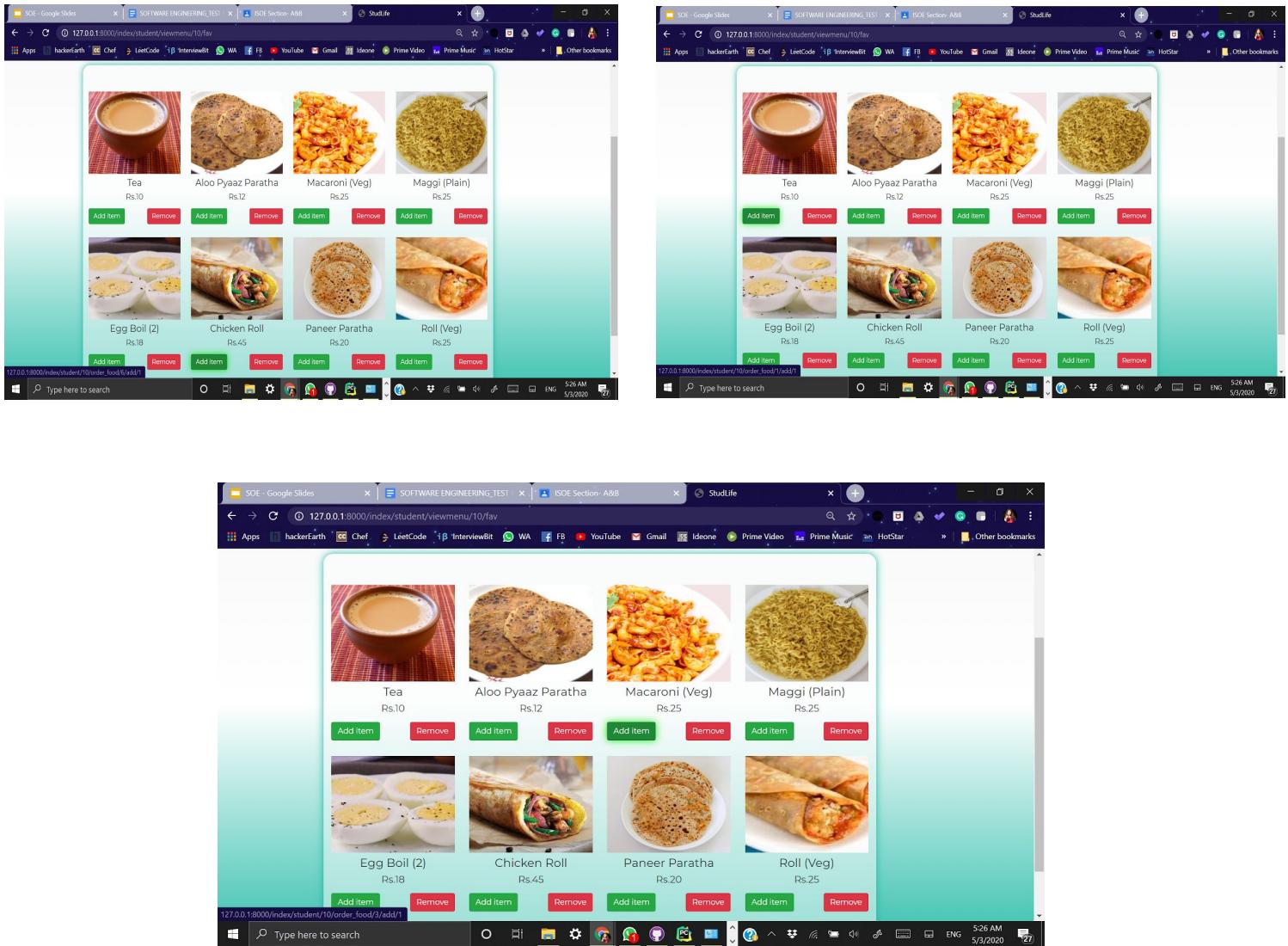
TEST CASE 23: Night Canteen: Main Course

The student should be able to place an order by choosing items from a list of main course options. The following page showing the main course night canteen items should be displayed for this test case to be passed.



TEST CASE 24: Night Canteen: Add Item

The student will click on the add item button below any of the items that he/she wishes to have. By clicking on this button, the corresponding item should be added on the cart for this test case to be passed.



TEST CASE 25: Night Canteen: View Cart

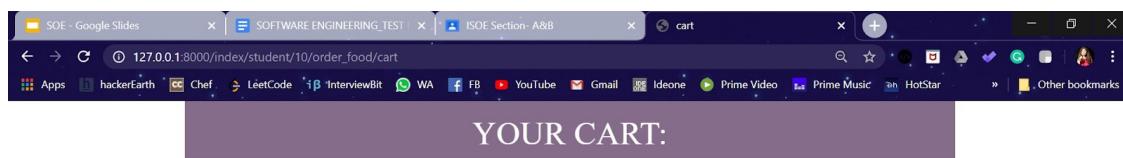
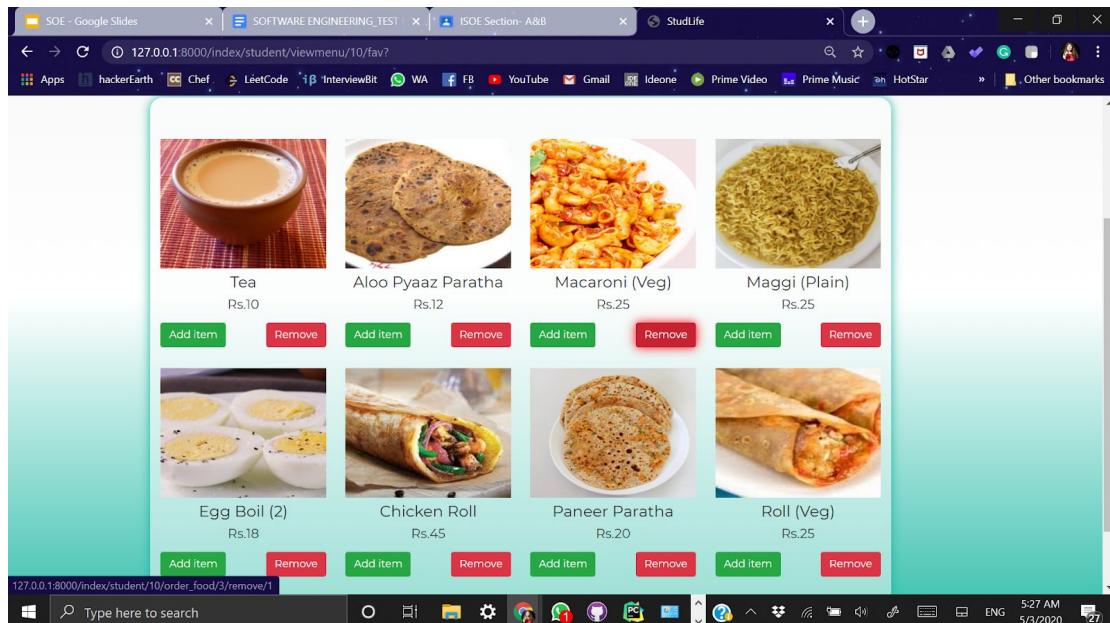
The student should be able to view the cart consisting of the items that he/she chose. The cart should be displayed by clicking on this button showing the exact items, quantity and price that the student chose for this test case to be passed.

The screenshot shows two browser windows. The top window displays the StudLife Night Canteen menu with items like Tea, Aloo Pyaaz Paratha, Macaroni (Veg), and Maggi (Plain). The bottom window shows the 'YOUR CART:' section with a table of ordered items: Tea (1 unit, Rs. 10), Macaroni-veg (1 unit, Rs. 25), and Chicken_roll (1 unit, Rs. 45). There are 'ORDER FOOD' and 'ADD MORE ITEMS' buttons.

FOOD ITEM	QUANTITY	PRICE
Tea	1	Rs. 10
Macroni-veg	1	Rs. 25
Chicken_roll	1	Rs. 45

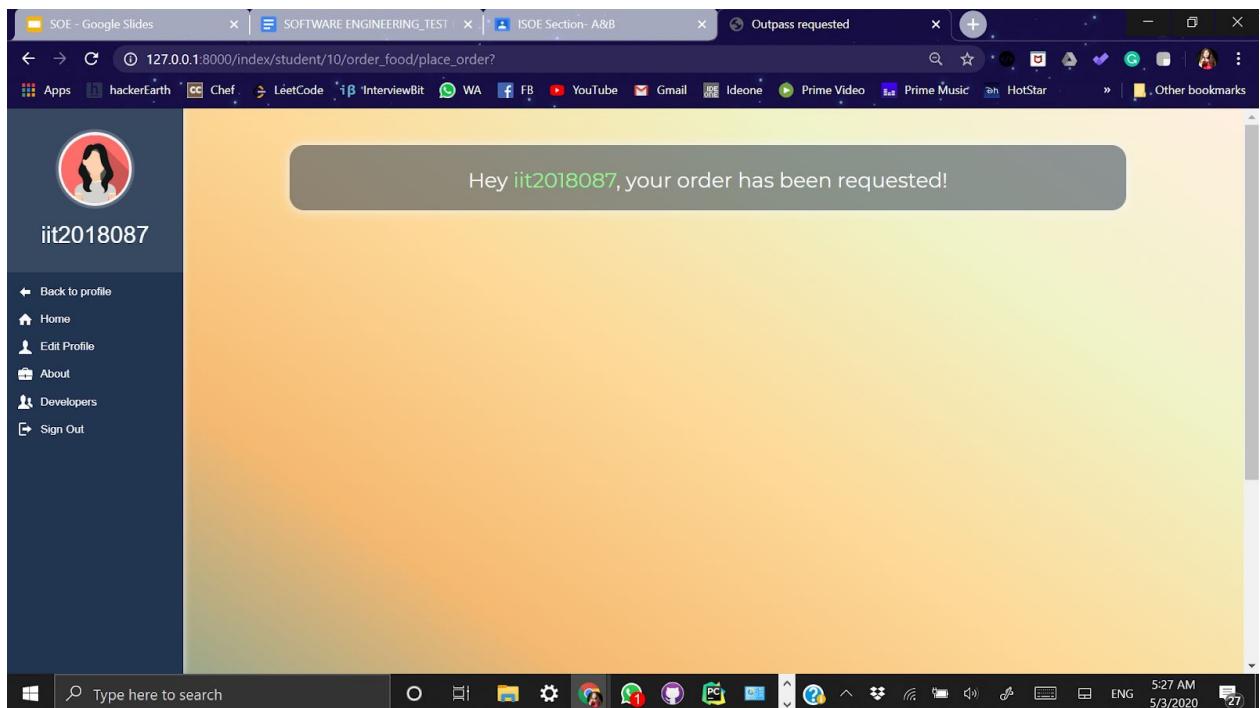
TEST CASE 26: Night Canteen: Remove Item

The student will click on the remove item button below any of the items that he/she does not wish to have. By clicking on this button, the corresponding item should be removed from the cart for this test case to be passed.



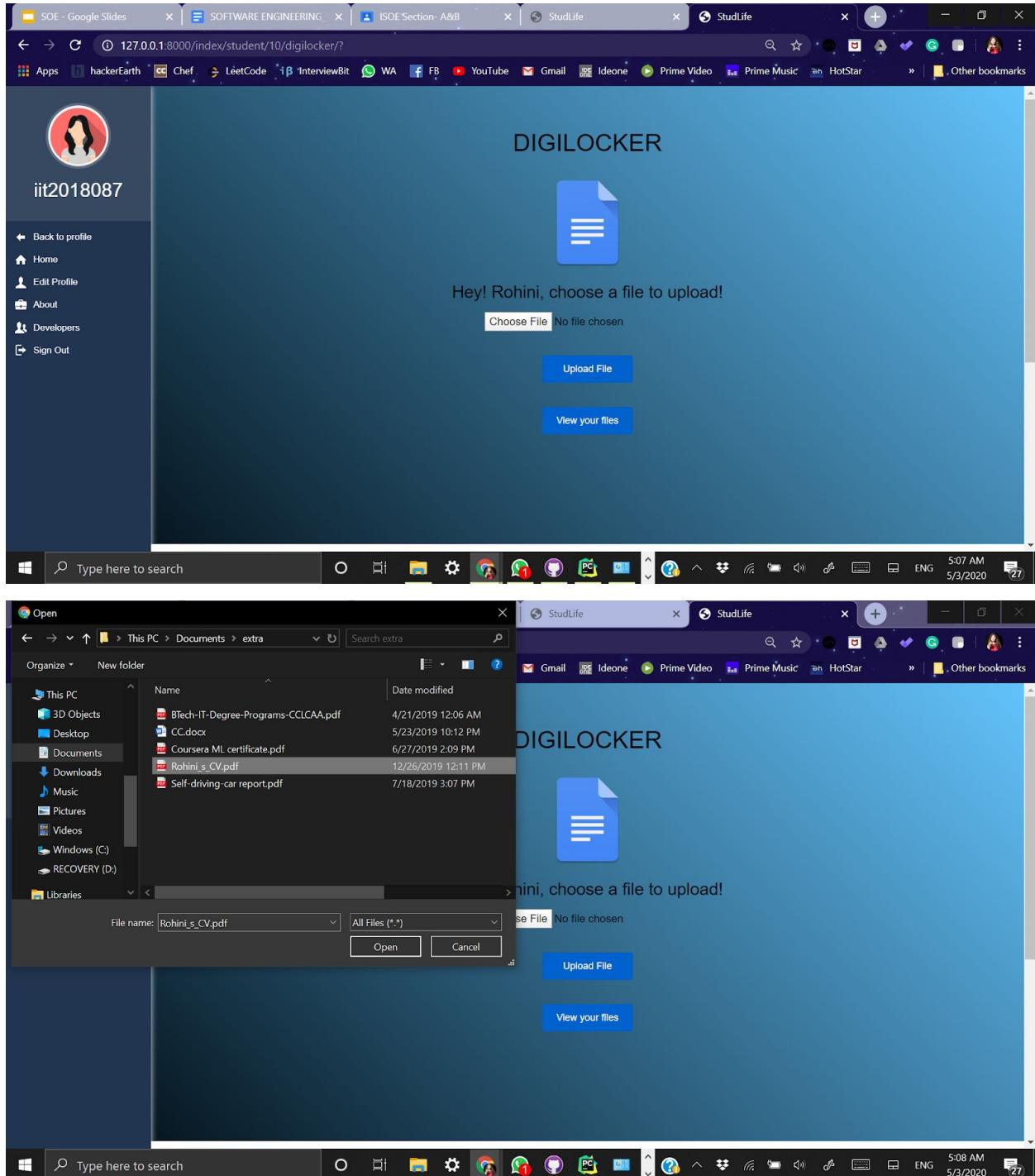
TEST CASE 27: Night Canteen: Order Food

After adding all the required items in the cars if the student clicks on the order food option he/she should receive a confirmation that the order requested has been received and will be passed to the night canteen owner. If the following page is displayed then the test case has passed.



TEST CASE 28: Digilocker: Choose File

The student should be able to choose and upload files from the available files in his/her computer indicating that this test case is passed.



TEST CASE 29: Digilocker: Upload and View File

The student should be able to upload the files to the digilocker. By clicking on this button if the following confirmation page is displayed then the test case is passed

Your files are safe with DIGILOCKER!

[Click here to add files to digilocker!](#)

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Education

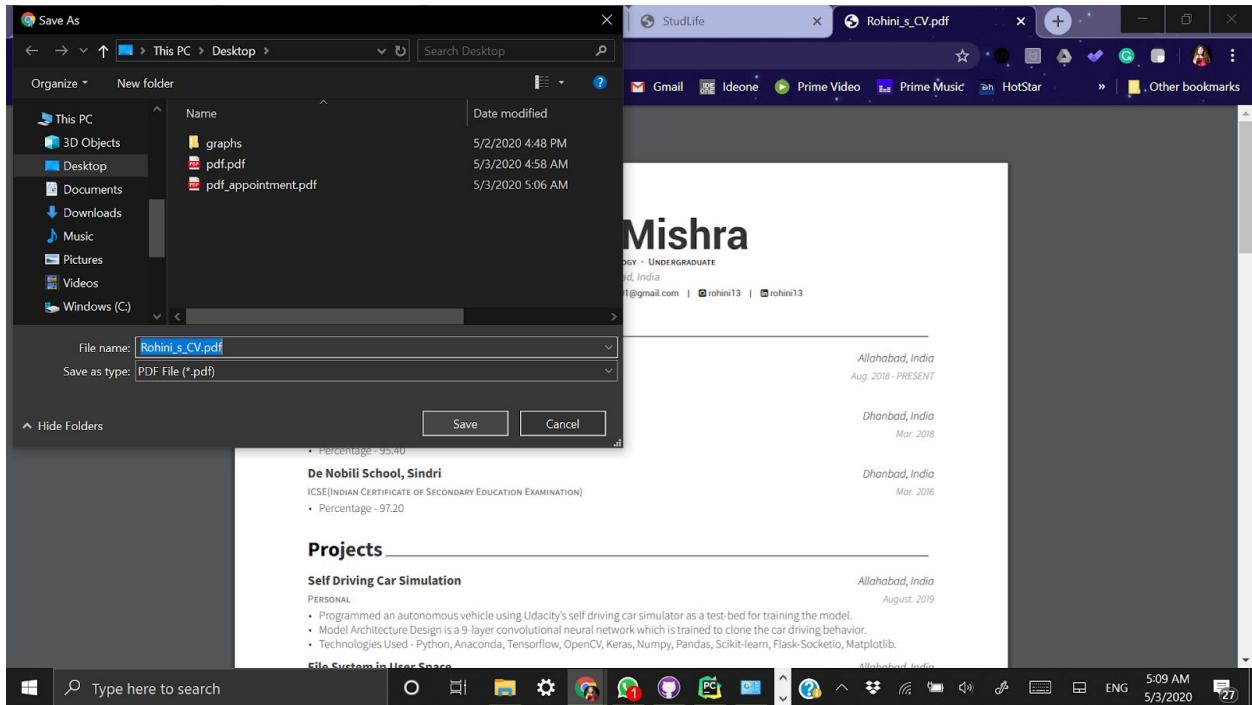
- Indian Institute of Information Technology, Allahabad**
B.TECH IN INFORMATION TECHNOLOGY
• CGPA - 8.88(3 semesters)
- Lions Public School, Sindri**
CBSE(ALL INDIA SENIOR SCHOOL CERTIFICATE EXAMINATION)
• Percentage - 95.40
- De Nobili School, Sindri**
ICSE(INDIAN CERTIFICATE OF SECONDARY EDUCATION EXAMINATION)
• Percentage - 97.20

Projects

- Self Driving Car Simulation**
PERSONAL
 - Programmed an autonomous vehicle using Udacity's self driving car simulator as a test-bed for training the model.
 - Model Architecture Design is a 9-layer convolutional neural network which is trained to clone the car driving behavior.
 - Technologies Used - Python, Anaconda, Tensorflow, OpenCV, Keras, Numpy, Pandas, Scikit-learn, Flask-Socketio, Matplotlib.

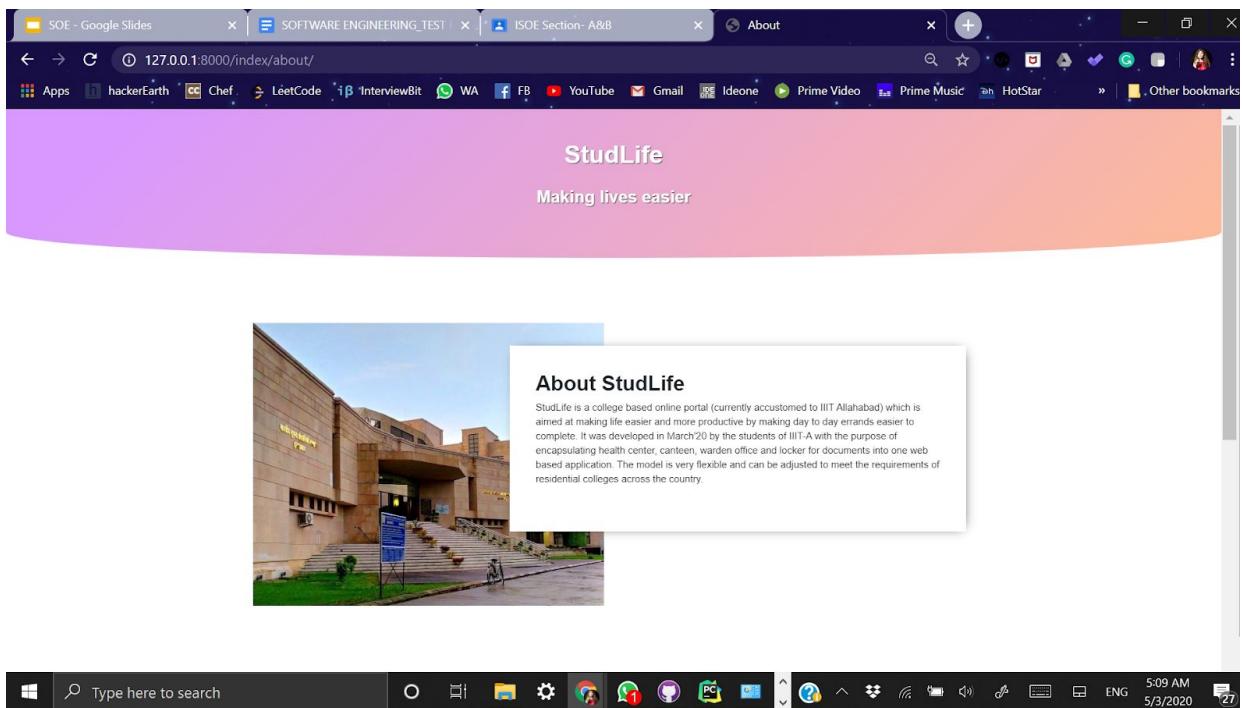
TEST CASE 30: Digilocker: Download your File

The student should be able to view and download the uploaded files in digilocker. By clicking on this button, the exact same files should be shown that the student uploaded indicating that this test case is passed.



TEST CASE 31: Dashboard: About

This button takes the users to the about page of StudLife showing the basic idea and functioning of the application. If the following page is displayed then the test case is said to be passed



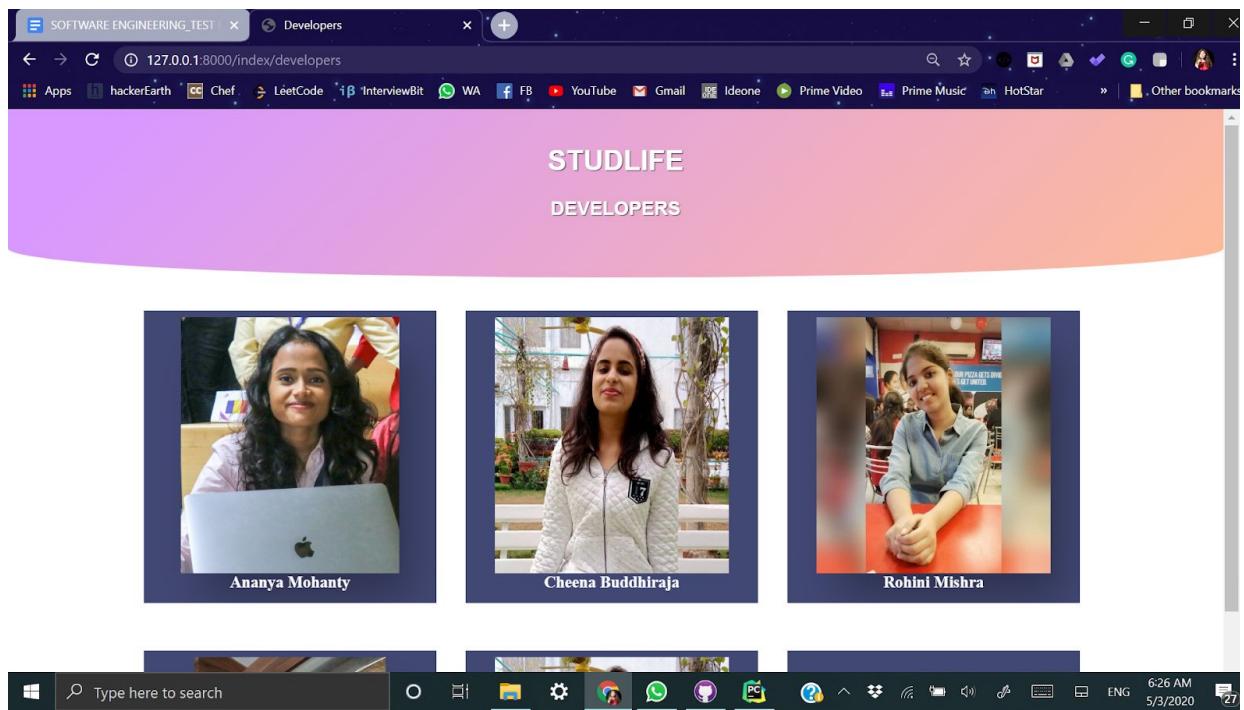
TEST CASE 32: Dashboard: Home

This button should take the user to the main page of StudLife showing the four login options for this test case to be passed.



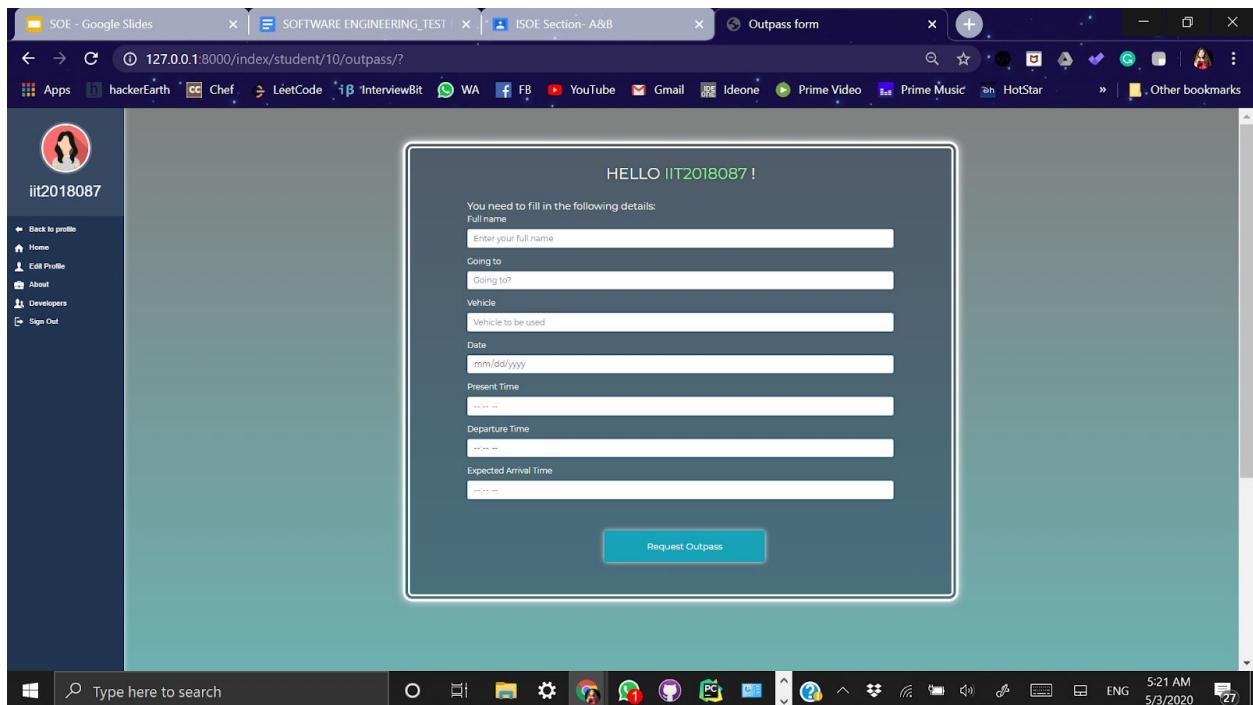
TEST CASE 33: Dashboard: Developers

This button should take the user to the developer's page of StudLife showing the developer's information for this test case to be passed.



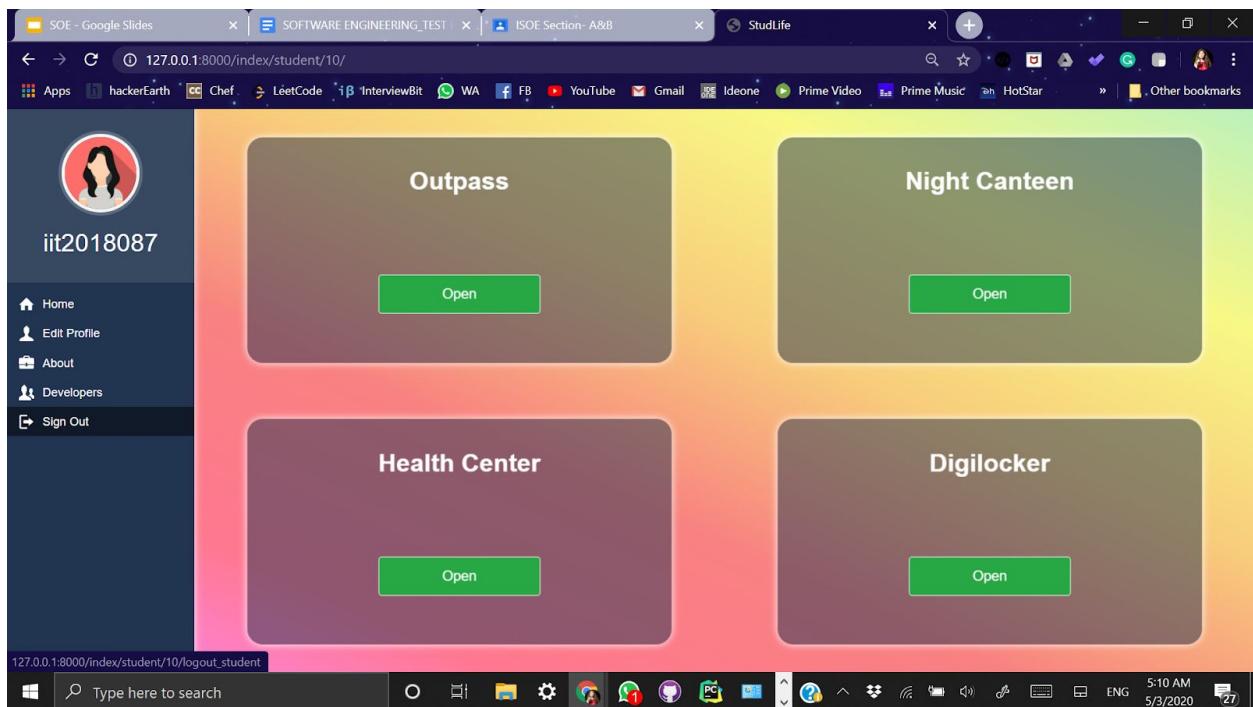
TEST CASE 34: Dashboard: Edit Profile

This button should take the user to their respective edit profile pages where they should be perfectly able to change their profile details for this test case to be passed.



TEST CASE 34: Dashboard: Back To Profile

This button should take the user back to their profiles from anywhere on the webpage for this test case to be passed.



TEST CASE 36: Dashboard: Sign Out

This button should sign the user out of the current login session successfully for this test case to be passed.



SECTION 3:

INTEGRATION TESTING

Integration testing, also known as integration and testing, is a software development process which program units are combined and tested as groups in multiple ways. In this context, a unit is defined as the smallest testable part of an application.

In this section, Integration testing has been performed by considering different modules together to see how the module works together.

Since in this web application, we have four categories of users i.e. Student, Doctor,

Warden and Canteen Manager; it is really important that the functionalities are integrated such that they can communicate (implying the implementation of the interconnectivity) among each other without any lag or difficulty.

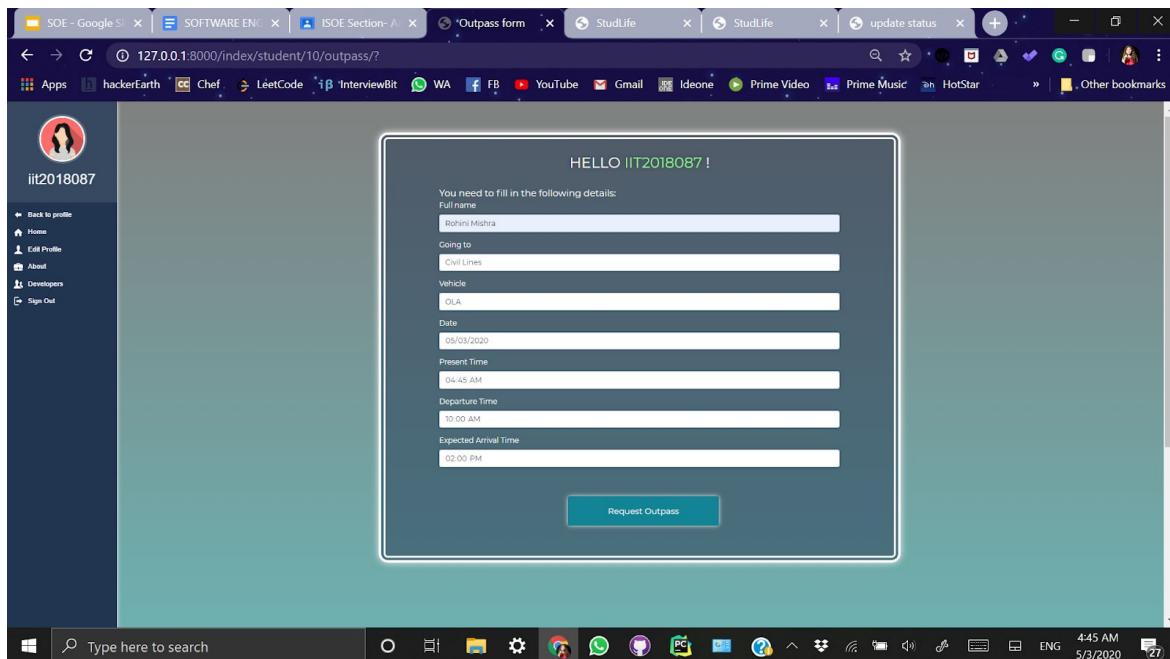
Coupling is the degree of interdependence between software modules; a measure of how closely connected two routines or modules are; the strength of the relationships between modules. Cohesion refers to the degree to which the elements inside a module belong together.

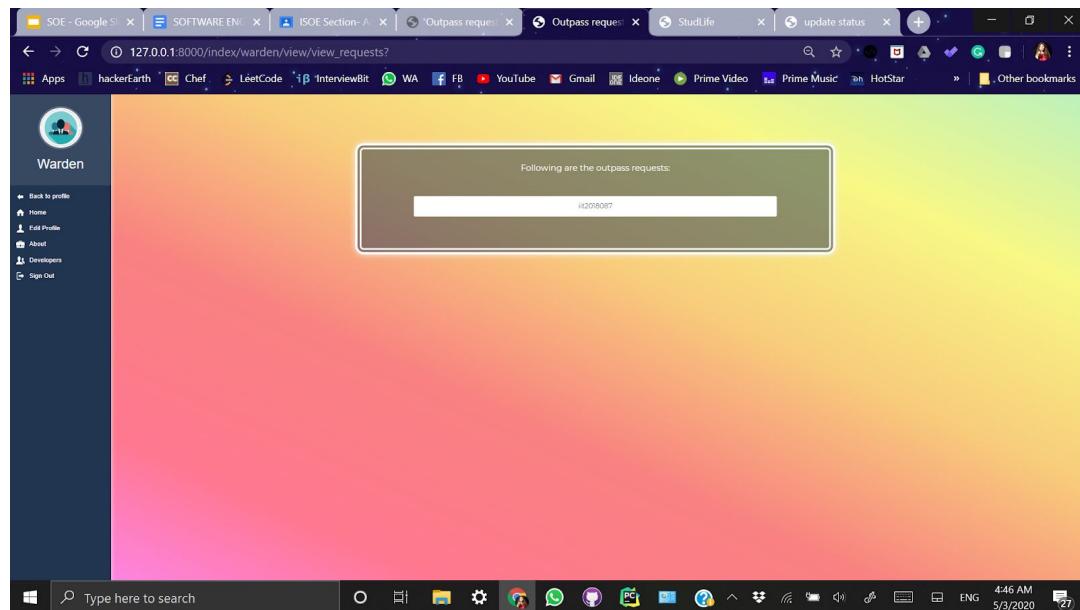
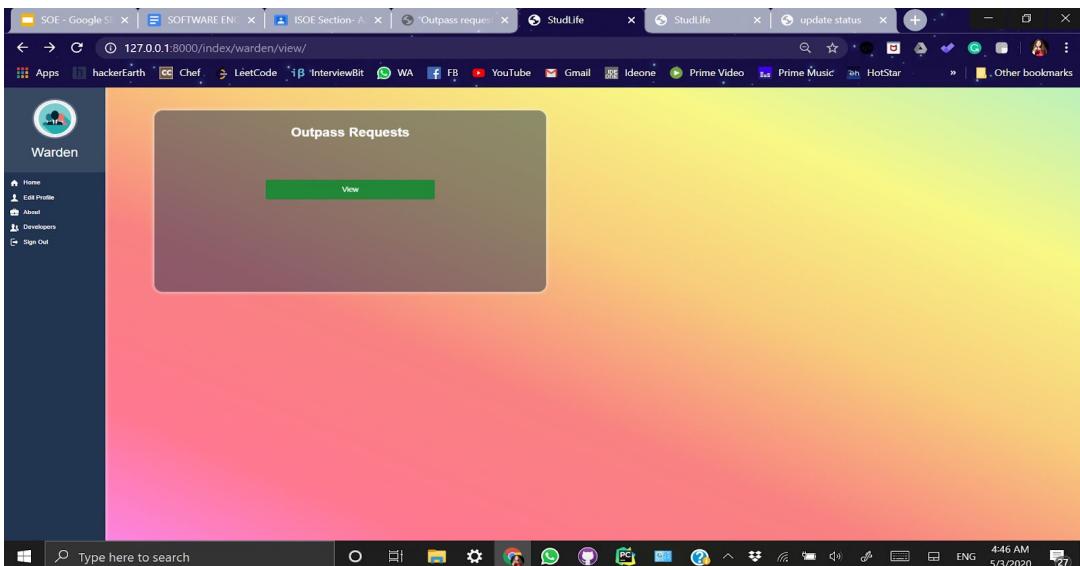
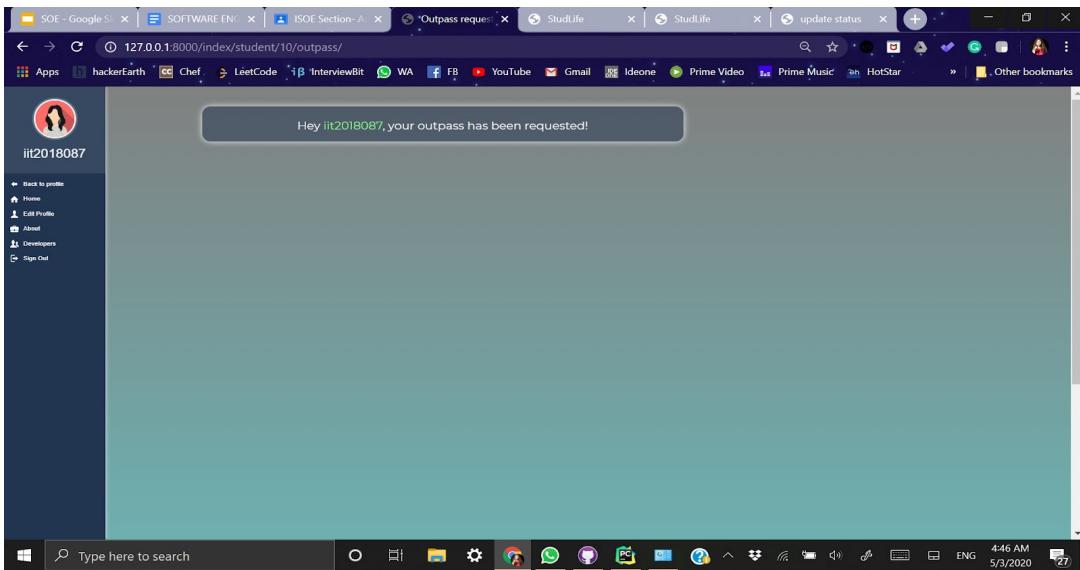
Test Case 1

Description:

We expect that as soon as the student applies for the outpass, the warden can view it on her dashboard.

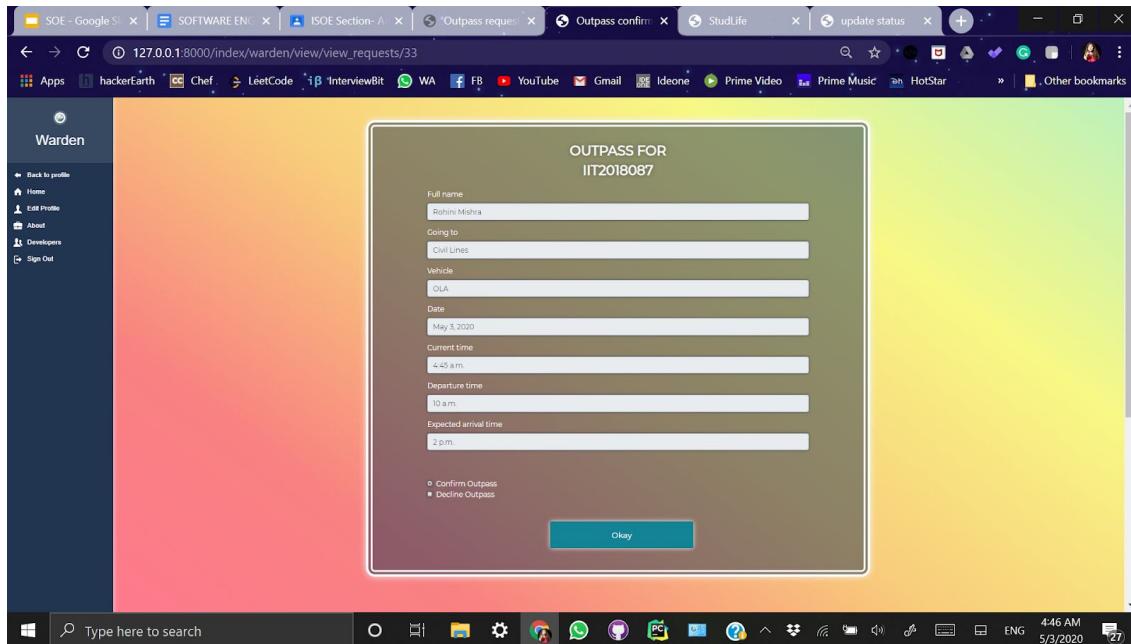
A sample outpass was requested from a student's login ID which appeared instantaneously at the warden's dashboard.

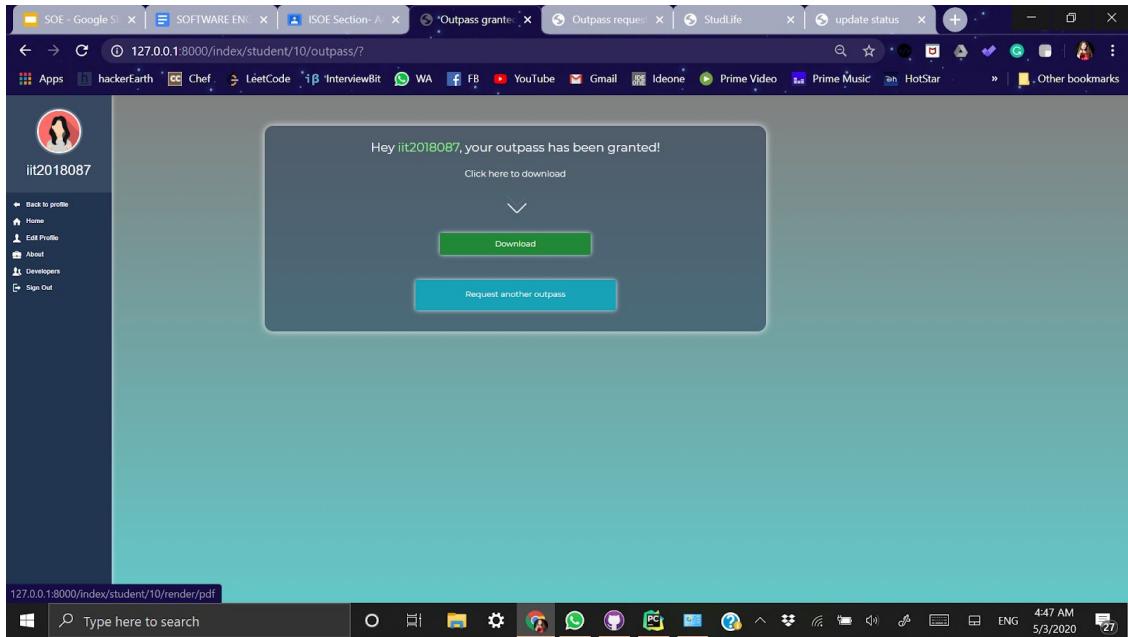




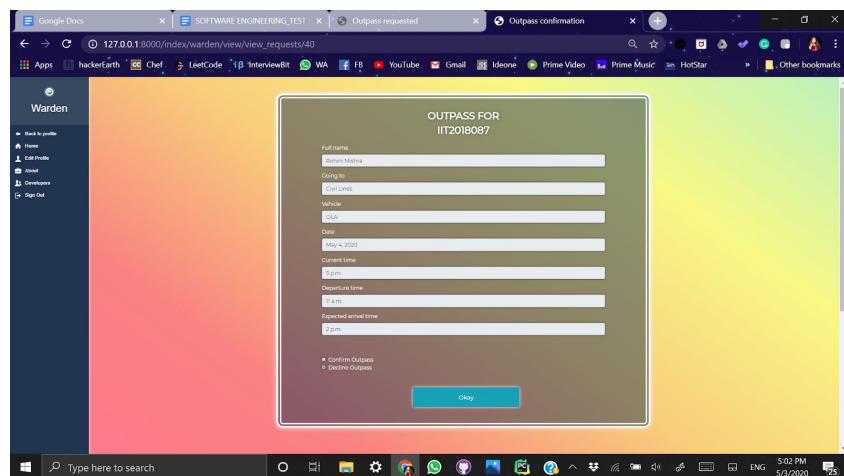
Next, we expect the student to access her accepted outpass as soon as the warden approves it so that she can use the same, without any more delay.

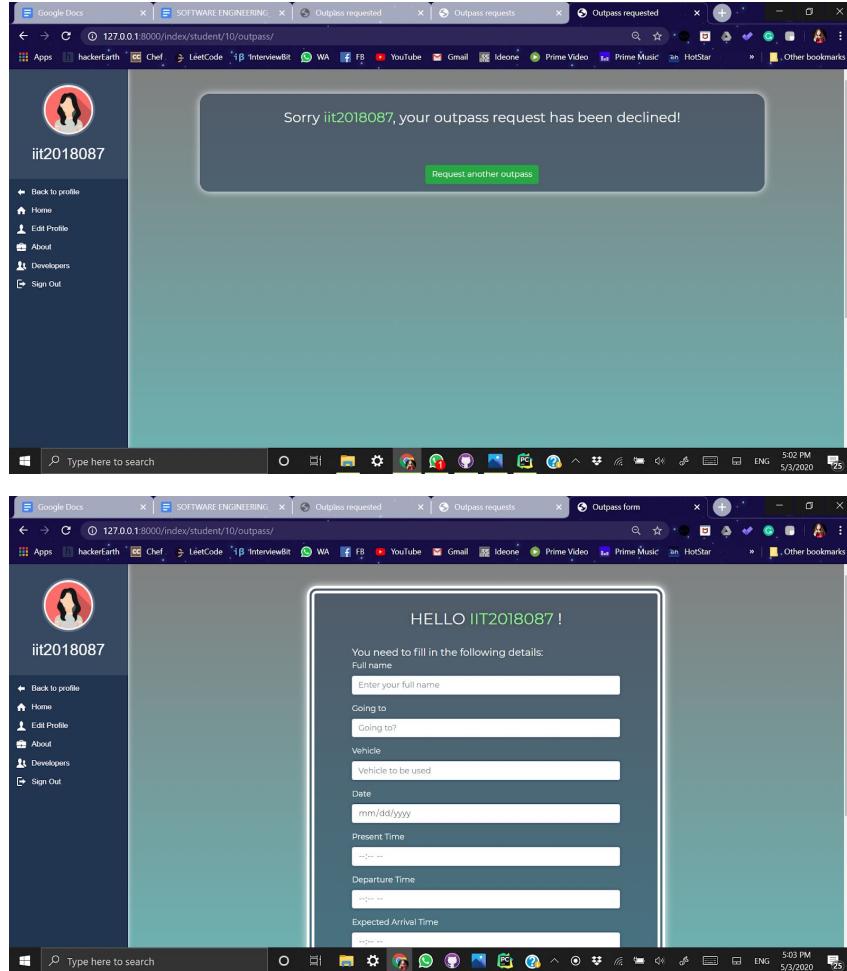
The sample outpass that was requested was accepted using the Warden's login ID and the outpass became available (with the option to be downloaded as a pdf) at the Student's Dashboard.





And finally, the student should be able to see that the requested outpass got declined as soon as the warden denies it and should be able to apply for a new one.





Since the Student's module and Warden's module are working together efficiently, this test case is passed.

Test Case 2

Description:

We expect that as soon as the student requests for an appointment at the Health Center, the healthcare executive can view it on his/her dashboard. A sample appointment was posted from a student's login ID with a given set of details as he/she filled the form. It was found that this application form appeared successfully at the executive's dashboard.

The image consists of two side-by-side screenshots of a web application interface, likely a desktop application running on a Windows operating system.

Top Screenshot (Student View):

- Header:** Shows a navigation bar with various links like "SOE - Go", "ISOE Sec", "Outpass", "Appoint", "StudLife", "update", "Outpass", and "book_app". Below it is a toolbar with icons for "WA", "FB", "YouTube", "Gmail", "Ideone", "Prime Video", "Prime Music", "HotStar", and "Other bookmarks".
- Left Sidebar:** Displays a user profile icon and the identifier "iit2018087". Below it is a menu with options: "Back to profile", "Home", "Edit Profile", "About", "Developers", and "Sign Out".
- Central Content:** A modal window titled "HELLO IIT2018087!" contains a message: "You need to fill in the following details:". It includes three input fields: "Full name" (Rohini Mishra), "Date" (05/03/2020), and "Time" (05:00 PM). At the bottom is a green "Request Appointment" button.
- Bottom:** A taskbar with the Windows logo, a search bar, and various pinned icons.

Bottom Screenshot (Doctor View):

- Header:** Similar to the top screenshot, showing the same set of links and icons.
- Left Sidebar:** Displays a user profile icon and the identifier "Doctor". Below it is a menu with options: "Back to profile", "Home", "Edit Profile", "About", "Developers", and "Sign Out".
- Central Content:** A modal window displays the message: "Following are the appointment requests:" followed by a list containing the identifier "iit2018087".
- Bottom:** A taskbar with the Windows logo, a search bar, and various pinned icons.

Also, we want the student to be able to view the response of his/her appointment request as soon as it is processed by the executive of the Health Center.

To test the same, we approved the request using the HC executive's login ID and found that the accepted response was accessible to the student who had applied it.

The screenshots demonstrate the integration between the Student and HealthCenter executive modules. In the first window, an executive is booking an appointment for a student. In the second window, the student receives a confirmation message, indicating that the appointment has been successfully processed.

Since the Student's module and HealthCenter executive's module are working together efficiently, this test case is passed.

Test Case 3

Description:

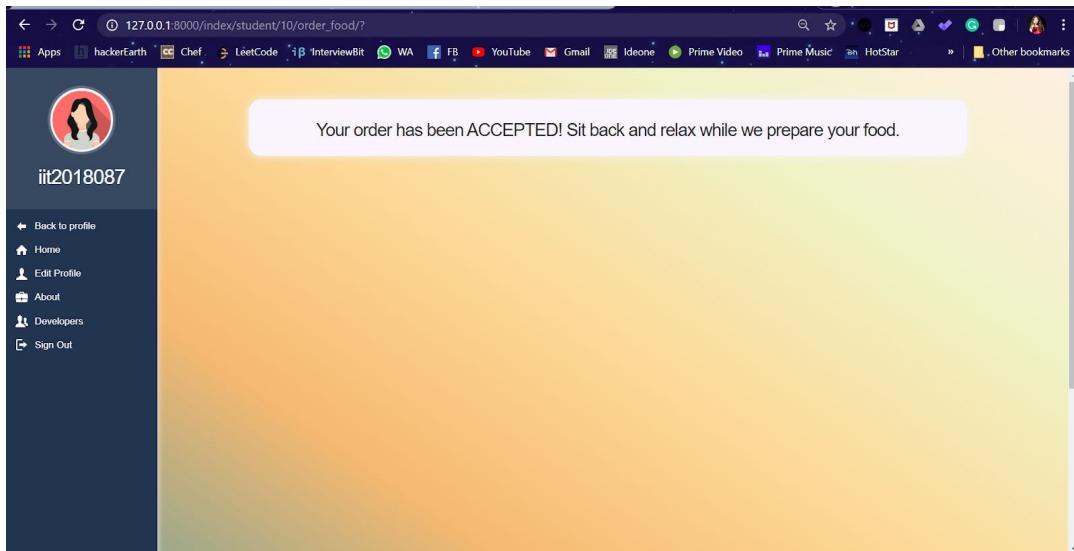
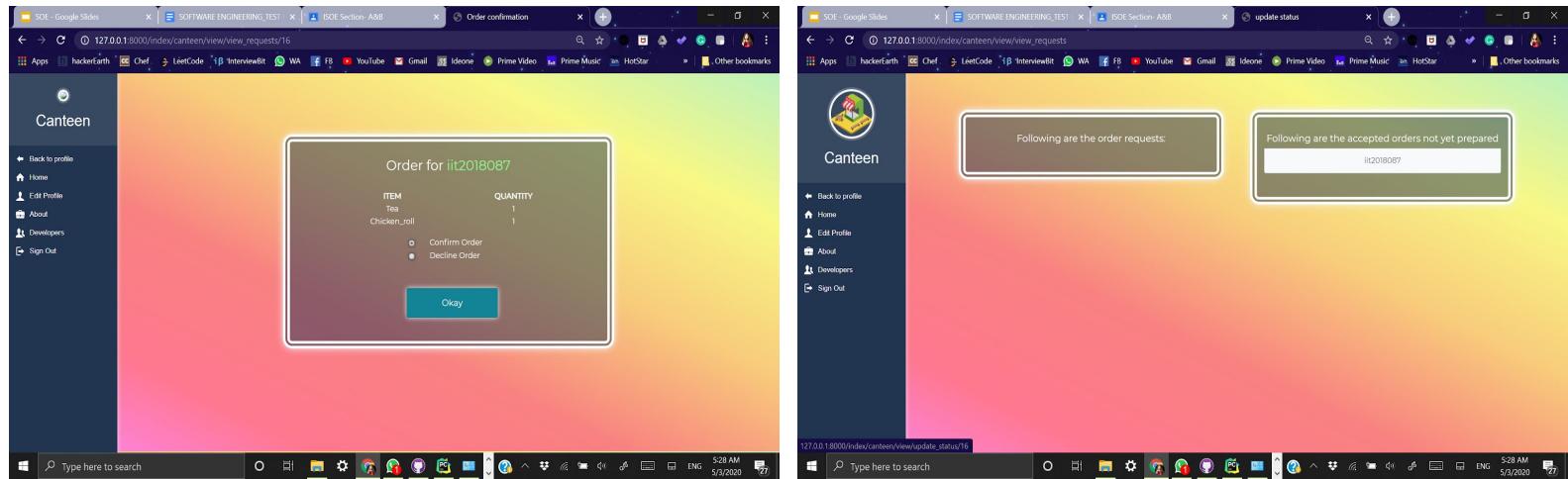
We expect that as soon as a student orders food at the Night Canteen, the vendor is able to see his/her order so that he can determine whether to accept/ decline the same.

So, we ordered miscellaneous items from a student's account to check this test case. It was found that almost instantly the order was received on the vendor's dashboard under the section pending orders.

The left screenshot displays a 'YOUR CART:' interface. It lists two items: 'Tea' (Quantity: 1, Price: Rs. 10) and 'Chicken_roll' (Quantity: 1, Price: Rs. 45). Below the table are two buttons: 'ORDER FOOD' and 'ADD MORE ITEMS'. The right screenshot shows a confirmation message: 'Hey iit2018087, your order has been requested!'.

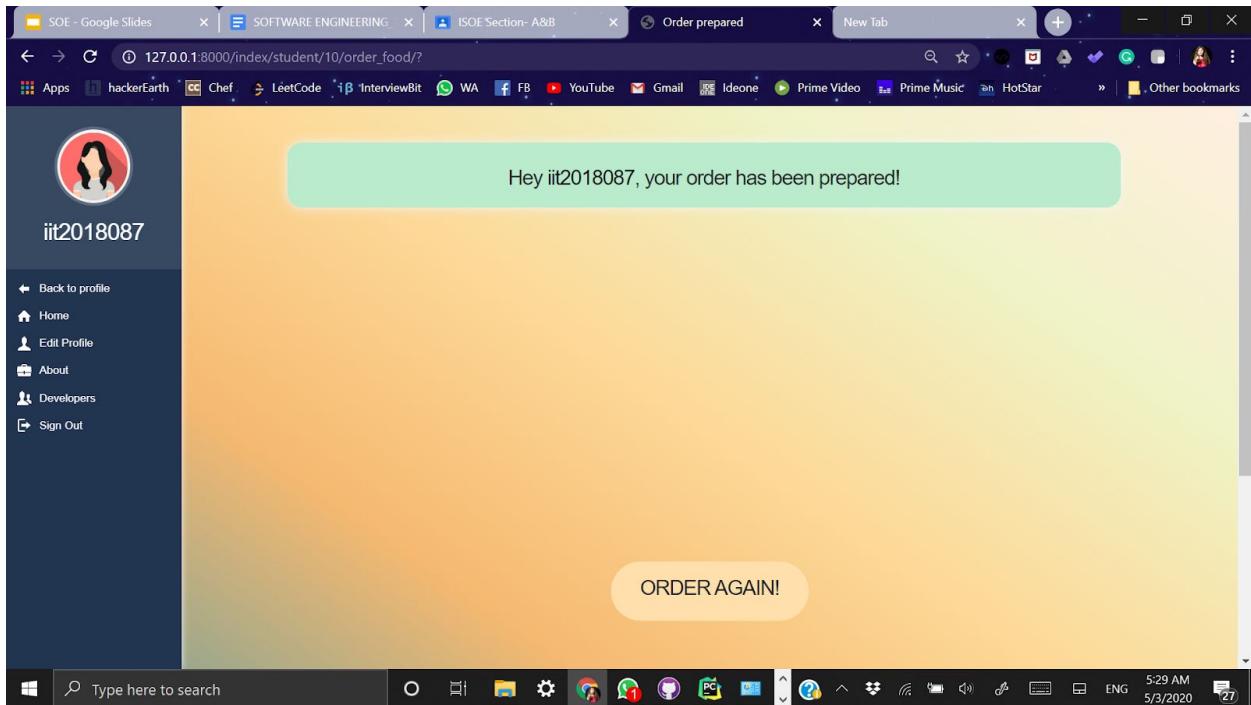
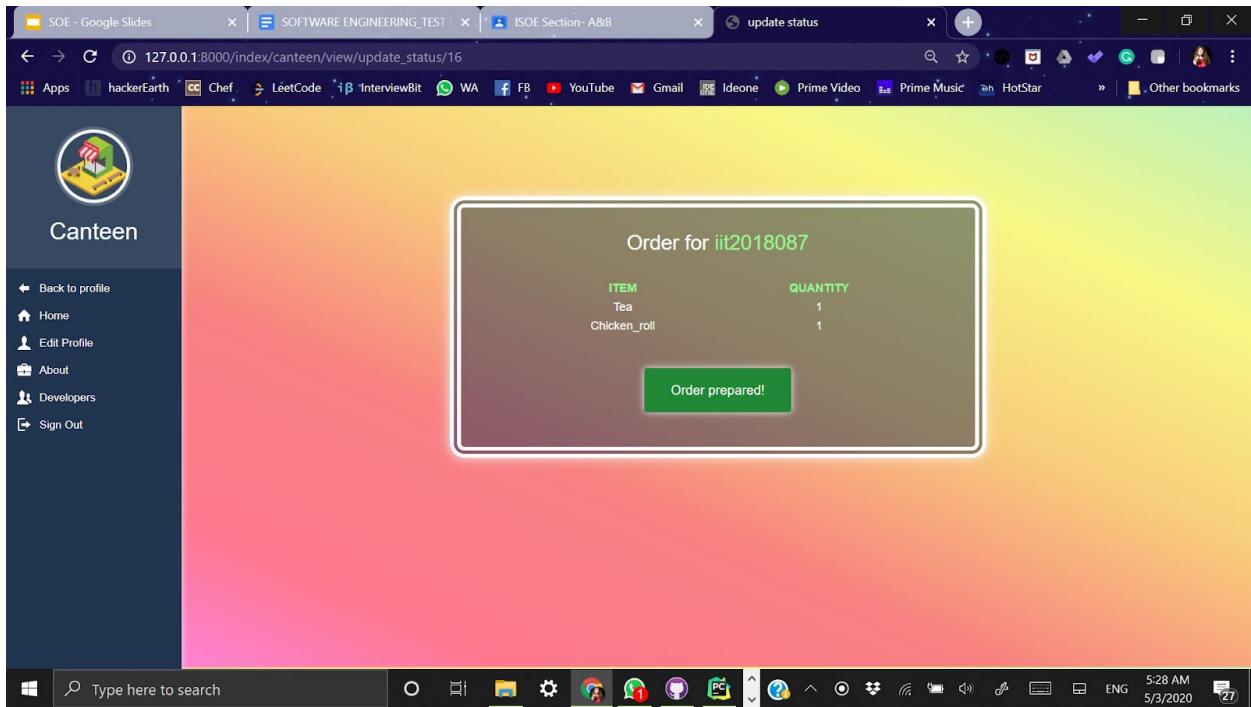
The screenshot shows a 'Canteen' dashboard. On the left, there is a sidebar with options like 'Back to profile', 'Home', 'Edit Profile', 'About', 'Developers', and 'Sign Out'. The main area displays a message: 'Following are the order requests: iit2018087'.

Next, we want that the vendor can notify the student whether the order was accepted or denied. To do this, we accepted the order and found out the student received the “order accepted” feedback.



And finally, we want the vendor to communicate to the student that he/she can collect the food, post its preparation.

For this, we responded “order prepared” from the canteen manager’s “accepted orders” section. We found that the student’s section was updated accordingly and asked him/her to collect the order.



Since the Student's module and Night Canteen manager's module are working together efficiently, this test case is passed.

SECTION 4:

SYSTEM TESTING

System testing of software or hardware is testing conducted on a complete, integrated system to evaluate the system's compliance with its specified requirements using SRS. While comparing against the requirements, various scenarios have been generated to know if there is any bug or not, and various bugs have been found as follows:

Scenario 1: 40 MB above pdf cannot be uploaded

While we were uploading the sample pdfs to check if the files are uploaded in the database in the digilocker section, we saw a couple of the files were not uploaded. After many attempts, we observed that the files which are larger than 40 MB of size, cannot be uploaded.

Errors Found: Bug 1 was found during this test. Otherwise the results were as expected.

Scenario 2:

Execution of malicious query into the database by someone with unauthorised access.

Since our application is in a primitive state with no supporting security framework so far, there is a possibility that hackers may break into the admin's system using SQLite injection, and are able to execute malicious queries into the database.

Errors Found: Bug 2 was found during this test. Otherwise the database will

function normally.

SECTION 5: FOUND AND FIXED BUG

This section contains a list of bugs that we found during testing and also their fixes. All the bugs listed here are fixed.

BUG 1

Description: This bug was caused due to the modification of the database by using the browser back button as it just took the user to the previous url calling the view function again. Thus, the view function corresponding to that url modified the database just like it was called for the first time. This led to Multiple Objects Returned Exception in the database models.

Fix: This bug was fixed by using the back to profile and other back buttons displayed in the web application rather than using the back button of the browser.

BUG 2

Description: This bug was caused in some of the template files using an image tag. Browser was not able to resolve the specified image address.

Fix: This bug was fixed using the { % load static % } command on the top of all such templates for the django compiler to be able to load all the static files including images.

BUG 3

Description: The formatting of the index page was being modified on adding the about page, in spite of both the pages having unrelated separate template files.

Fix: It was found that both the index and the about pages had a reference to the same stylesheet where the tags were being overwritten for both. This bug was fixed by using a separate stylesheet for both the pages.

BUG 4

Description: On downloading the outpass pdf, there was an internal server error and the pdf was not being generated.

Fix: There was a bug in the view function of the corresponding url that was raising an Object Not Found Exception. This was fixed by modifying the database accordingly.

BUG 5

Description: On trying to login in the four login pages by using an invalid login id, Group Not Found Exception was being raised instead of again displaying the empty form.

Fix: This was fixed by using try except statements in the login view function to handle the exception thrown.