PROJECT REPORT

APP NAME-**EATSTREET**

SUBMITTED BY

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TO ZENSE

ROLL NO-IMT2018009

- # IDEA FOR THE PROJECT

The idea of the project is to compare prices on different food ordering online websites. This is a terminal based application. It compares prices on two of the most popular food ordering sites-

- **Swiggy**
- **Zomato.**

I got the idea for this project from my daily experiences in the hostel. At least 2 or 3 times a week our hostel food is not flavorful. Most of us end up ordering food online.

This app is made exclusively for IIITB students. We are sometimes lazy to check the rate of the restaurant on the other app and feel bad after someone tells us later. This application will take input the restaurant name and tell the rate of it on Zomato and Swiggy.

The app will open both the sites on the browser and take you till the checkout page for both the apps. So the user can get the price after all the taxes and delivery charges are added which is not easy to predict.

- # TECHNOLOGY USED AND IMPLEMENTATION DETAILS

My app is based on automation. I have coded my app in python and used the following technologies.

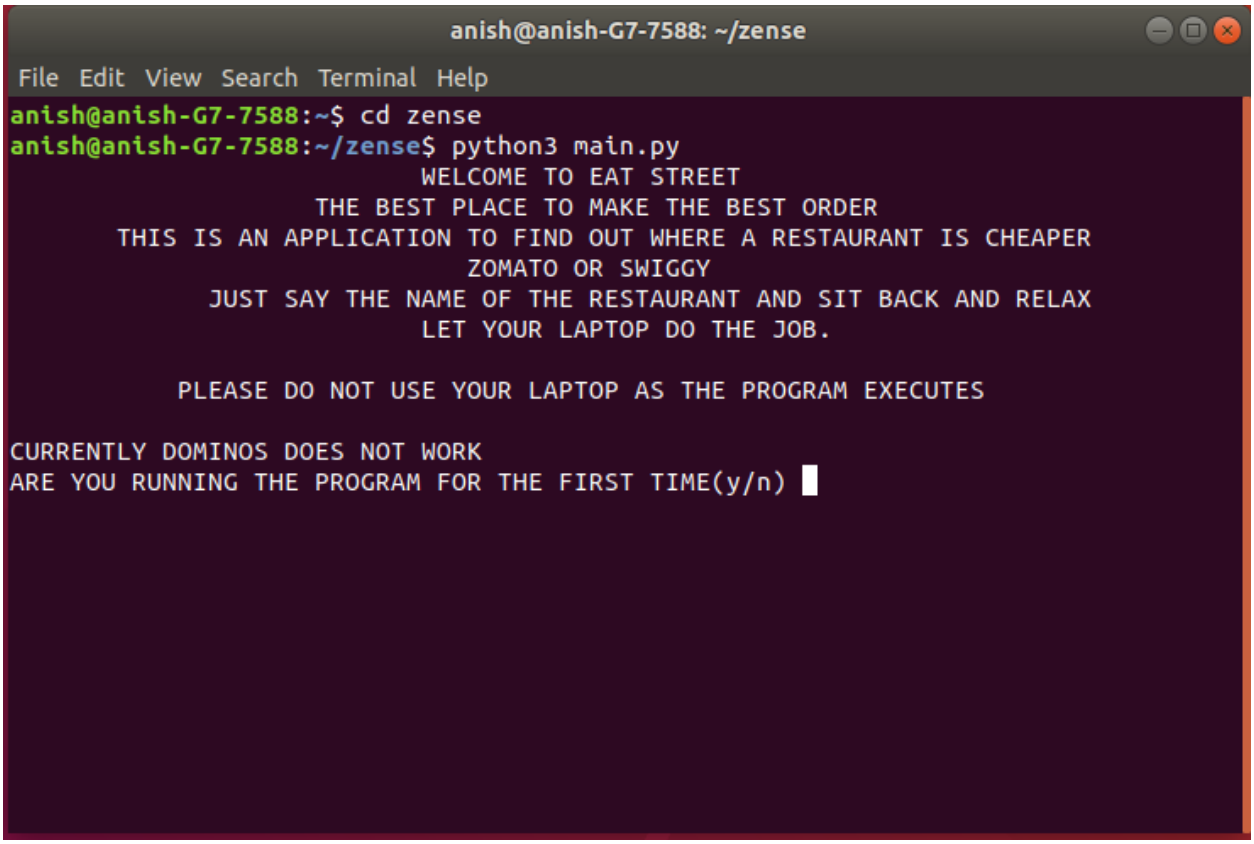
- **Selenium** module to communicate with HTML pages.
- **Shelve** module for file handling.
- **Chromedriver** to open the app in the browser.
- **Python3** to run the terminal based application.

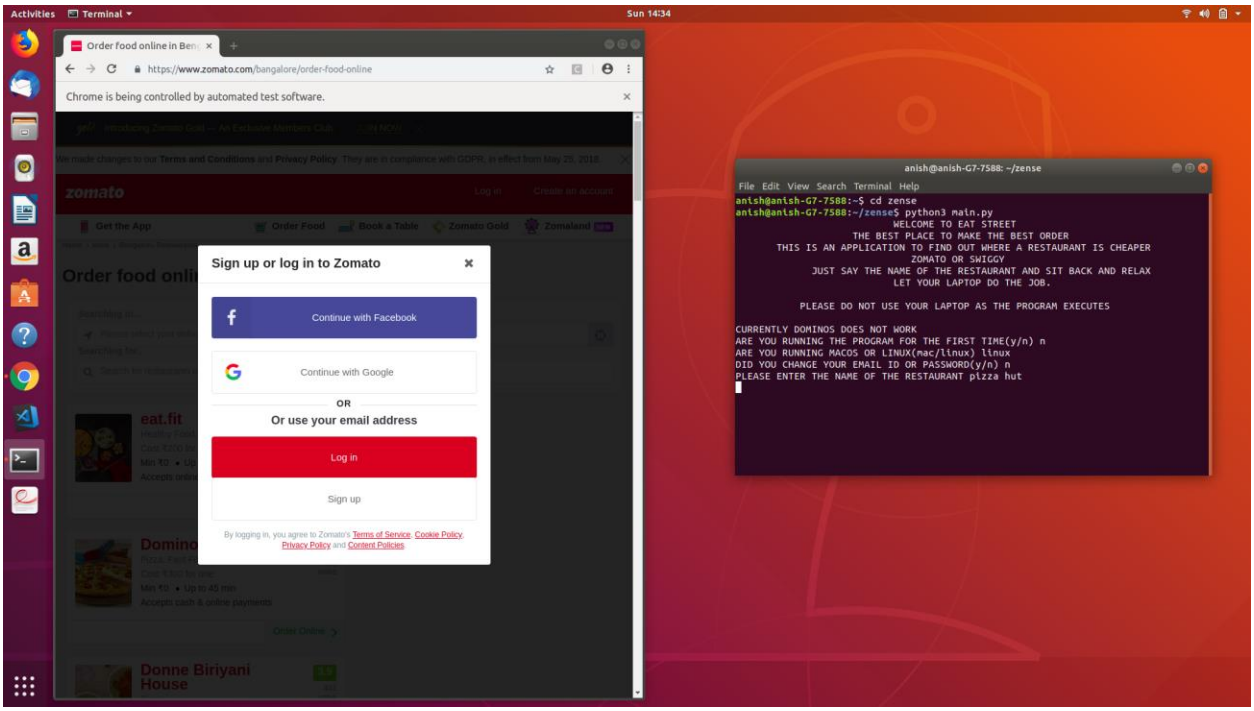
I have asked for inputs of zomato account email and password as it is required. Swiggy does not require it. I have also asked for the **operating system** on which the application will be running as the chromedriver is

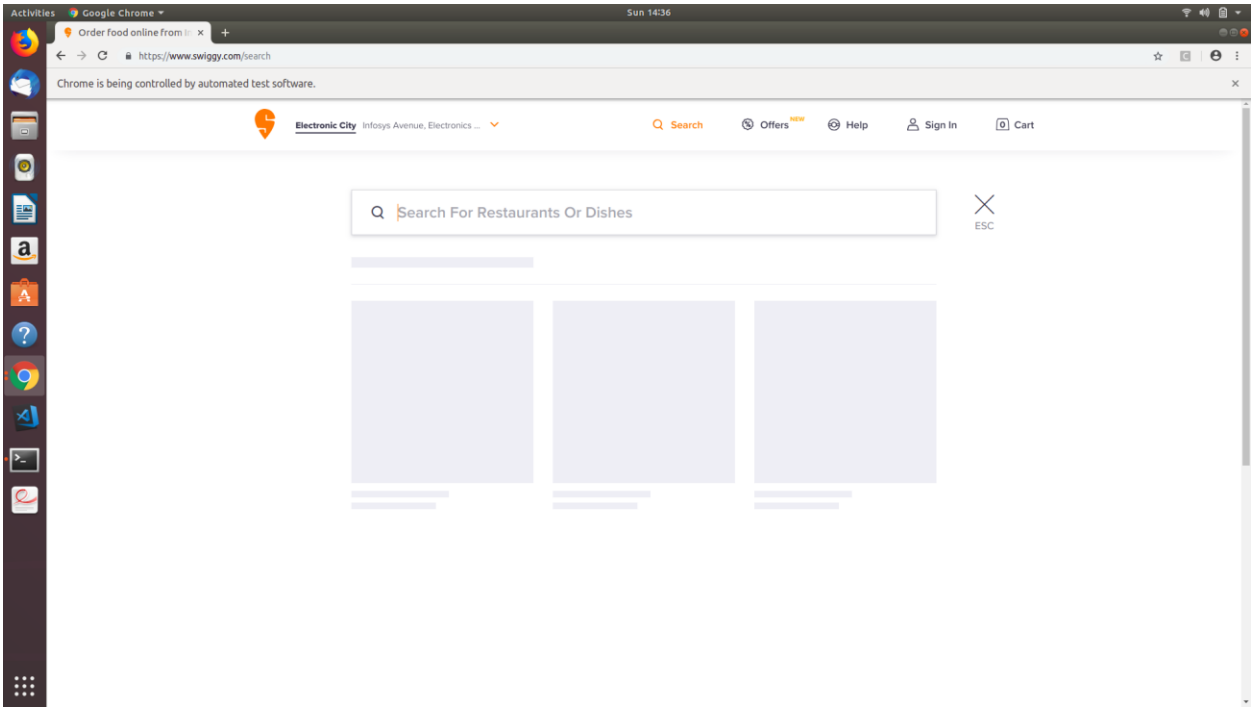
different for different operating systems. My app is capable of running on both **macOS and linux**.

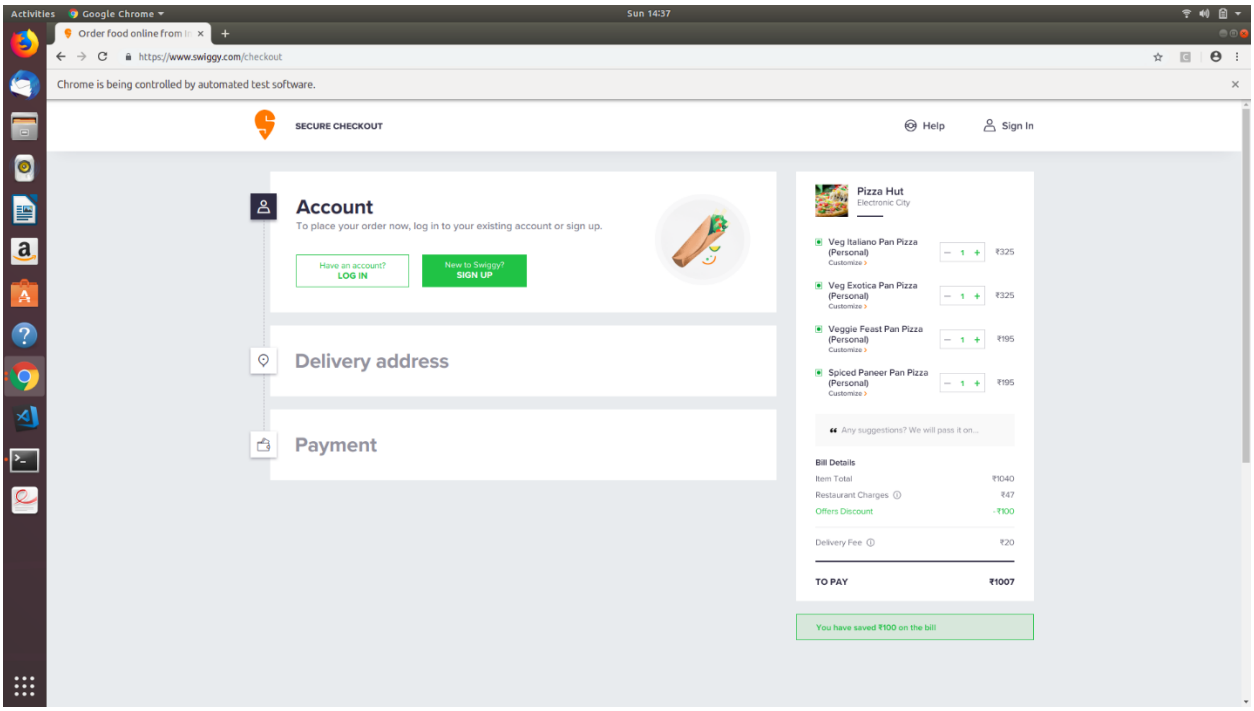
Zomato is opened on the browser and logged into. The restaurant is searched and four items are selected from the restaurant randomly to order. The same 4 items are then ordered on swiggy and the rates are displayed on the terminal.
The execution of the program takes nearly 4-5 minutes.

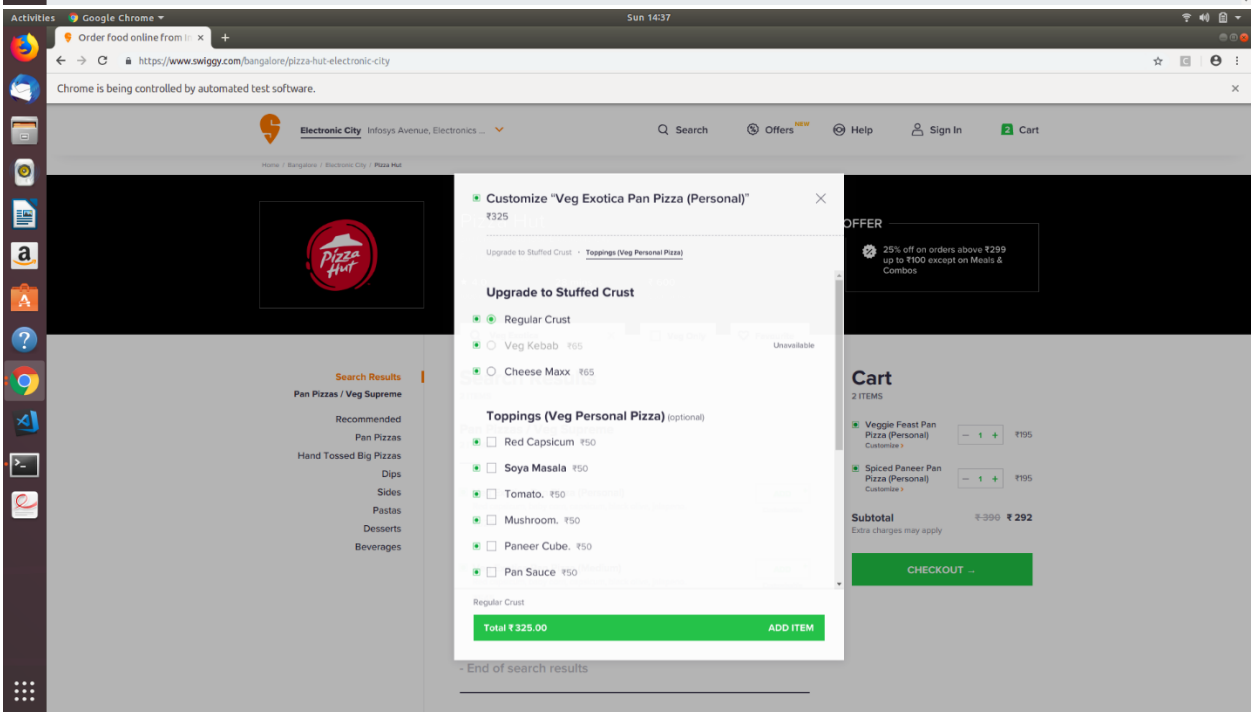
- **IMAGES/SCREENSHOTS/VIDEOS**
  LINK TO VIDEO - https://youtu.be/ObLHTGLKq28

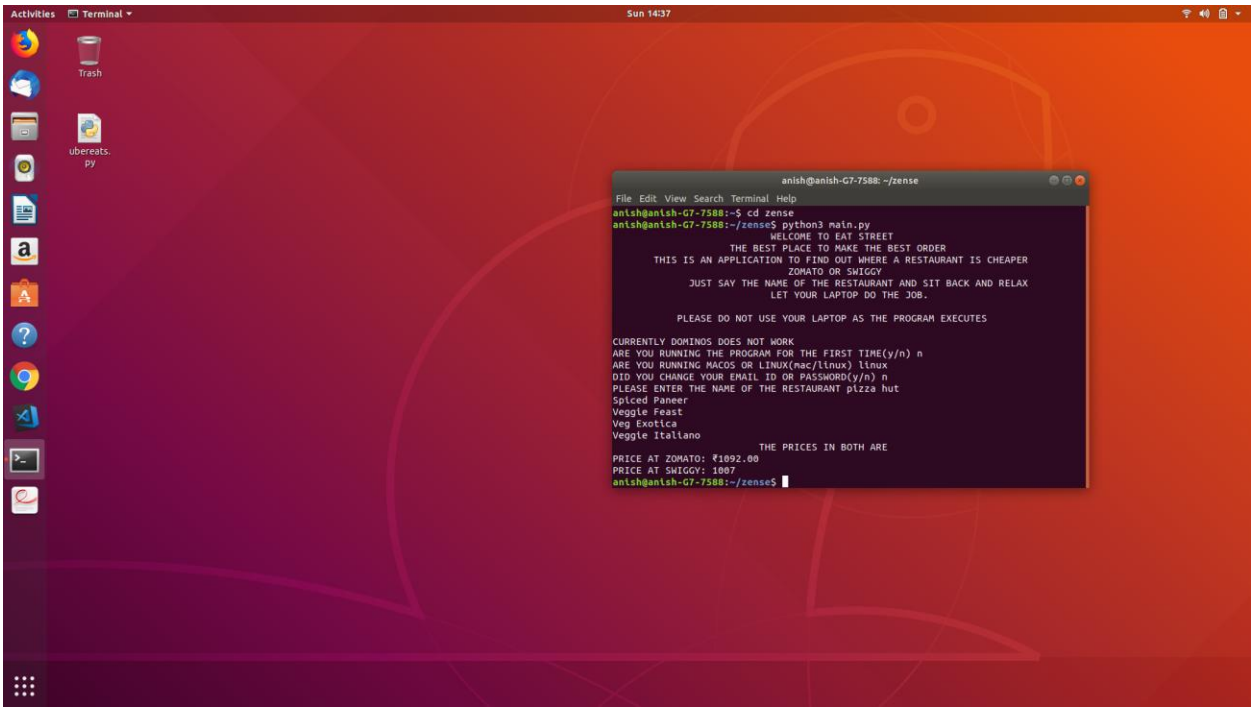



Activities
Terminal
Sun 14:34
Order food online in Ben
https://www.zomato.com/bangalore/order-food-online
Chrome is being controlled by automated test software.
zomato
Order food onli
Sign up or log in to Zomato
Continue with Facebook
Continue with Google
OR
Or use your email address
Log in
Sign up
By logging in, you agree to Zomato's Terms of Service, Cookie Policy, Privacy Policy and Content Policies
eat.fit
Donne Biriyani House
anish@anish-G7-7588: ~/zense
File Edit View Search Terminal Help
anish@anish-G7-7588:~$ cd zense
anish@anish-G7-7588:~/zense$ python3 main.py
WELCOME TO EAT STREET
THE BEST PLACE TO MAKE THE BEST ORDER
THIS IS AN APPLICATION TO FIND OUT WHERE A RESTAURANT IS CHEAPER
ZOMATO OR SWIGGY
JUST SAY THE NAME OF THE RESTAURANT AND SIT BACK AND RELAX
LET YOUR LAPTOP DO THE JOB.
PLEASE DO NOT USE YOUR LAPTOP AS THE PROGRAM EXECUTES
CURRENTLY DOMINOS DOES NOT WORK
ARE YOU RUNNING THE PROGRAM FOR THE FIRST TIME(y/n) n
ARE YOU RUNNING MACOS OR LINUX(mac/linux) linux
DID YOU CHANGE YOUR EMAIL ID OR PASSWORD(y/n) n
PLEASE ENTER THE NAME OF THE RESTAURANT pizza hut


Activities
Google Chrome
Sun 14:36
Order food online from
https://www.swiggy.com/search
Chrome is being controlled by automated test software.
Electronic City
Infosys Avenue, Electronics ...
Search
Offers
Help
Sign In
Cart
Search For Restaurants Or Dishes
ESC


Activities
Google Chrome
Sun 14:37
Order food online from In
https://www.swiggy.com/checkout
Chrome is being controlled by automated test software.
SECURE CHECKOUT
Help
Sign In
Account
To place your order now, log in to your existing account or sign up.
Have an account?
LOG IN
New to Swiggy?
SIGN UP
Delivery address
Payment
Pizza Hut
Electronic City
Veg Italiano Pan Pizza (Personal)
Customize
₹325
Veg Exotica Pan Pizza (Personal)
Customize
₹325
Veggie Feast Pan Pizza (Personal)
Customize
₹195
Spiced Paneer Pan Pizza (Personal)
Customize
₹195
Any suggestions? We will pass it on...
Bill Details
Item Total
₹1040
Restaurant Charges
₹47
Offers Discount
-₹100
Delivery Fee
₹20
TO PAY
₹1007
You have saved ₹100 on the bill


Activities
Google Chrome
Sun 14:37
Order food online from In
https://www.swiggy.com/bangalore/pizza-hut-electronic-city
Chrome is being controlled by automated test software.
Electronic City
Infosys Avenue, Electronics ...
Search
Offers
Help
Sign In
Cart
Customize "Veg Exotica Pan Pizza (Personal)"
₹325
Upgrade to Stuffed Crust
Toppings (Veg Personal Pizza)
Upgrade to Stuffed Crust
Regular Crust
Veg Kebab ₹65
Unavailable
Cheese Maxx ₹65
Toppings (Veg Personal Pizza) (optional)
Red Capsicum ₹50
Soya Masala ₹50
Tomato. ₹50
Mushroom. ₹50
Paneer Cube. ₹50
Pan Sauce ₹50
Regular Crust
Total ₹325.00
ADD ITEM
OFFER
25% off on orders above ₹299 up to ₹100 except on Meals & Combos
Search Results
Pan Pizzas / Veg Supreme
Recommended
Pan Pizzas
Hand Tossed Big Pizzas
Dips
Sides
Pastas
Desserts
Beverages
Cart
2 ITEMS
Veggie Feast Pan Pizza (Personal)
₹195
Spiced Paneer Pan Pizza (Personal)
₹195
Subtotal
₹390 ₹292
Extra charges may apply
CHECKOUT
End of search results



- **FUTURE SCOPE OF THE PROJECT**

  In the near future there will be multiple online food ordering websites picking up. Like hotels and flights we would need an app to tell us the best prices to order food online.

  With sites like foodpanda and ubereats picking up we need to get the best prices out of all these. I faced problems while automating for **ubereats.** **Foodpanda** does not take website ordering. I am currently finding techniques to automate the mobile apps of all the above mentioned websites.

  Some item names on restaurants can differ from other websites. For examples Gajar Ka Halwa on **zomato** is mentioned as Carrot Halwa on **ubereats.** This requires translations from English translation software. This is one of the reasons that I dropped ubereats from my project. I am finding solutions to solve the above problems.

- **OVERALL EXPERIENCE WHILE DOING THE PROJECT**

The overall experience of my project was great. I chose this project as it solved one of my hostel problems. I was amazed by the language of python that it was so powerful. I had learnt HTML/CSS/Javascript and they helped a lot during this project. I wanted to do something that affected me in my daily life. I had started coding with Zomato. I faced a lot of problems with it as it needed to sign in before continuing. There were also many unknown errors in the selenium module which I looked up on the internet. Some errors took 2 or 3 days to get resolved.

When I came to ubereats, I realized that my problems had really begun. Ubereats website had dynamic HTML elements which changed after loading the page again. This was a problem for me but I solved it somehow. But after proceeding to the page of the restaurant I realized that the translation between Hindi and English was a problem for me. So I decided to drop it as I knew I could not solve it in the given time.

Swiggy was easy to automate. They even had search bar to search for dishes. But their search algorithm was not very good. So I had to devise a way to find dishes.
For example, Puri & Sabzi could not be found though they had Puri & Sabzi in their website. Later I found out that I had to remove the '&' from the text to find the correct dish.

Overall I tried my best to make a good application and I had a marvelous experience while doing this project. I want to explore more into software development and how it is done.