

HACKER STREAK

A

Project Report

*Submitted in partial fulfilment of the
Requirements for the award of the Degree of*

BACHELOR OF ENGINEERING

IN

INFORMATION TECHNOLOGY

By

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Department of Information Technology



DECLARATION BY THE CANDIDATES

We, **N. CHARVEE KRISHNA, M. MADAN KUMAR, B. MANINDRA** bearing hall ticket numbers, **1602-19-737-078, 1602-19-737-079, 1602-19-737-081** hereby declare that the project report entitled "**HACKER STREAK**" under the guidance of **SATYADEVI MAM Asst.** Professor, Department of Information Technology, Vasavi College of Engineering, Hyderabad, is submitted in partial fulfilment of the requirement of MINI PROJECT of V semester of **Bachelor of Engineering in Information Technology**.

This is a record of bonafide work carried out by us and the results embodied in this project report has not been submitted to any other university or institute for the award of any other degree or diploma.

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Hyderabad-31

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BONAFIDE CERTIFICATE

This is to certify that the project entitled "**HACKERSTREAK**" being submitted by **N. CHARVEE KRISHNA, M. MADAN KUMAR, B. MANINDRA** bearing **1602-19-737-078, 1602-19-737-079, 1602-19-737-081** in partial fulfilment of the requirements for the completion of MINI PROJECT of Bachelor of Engineering in Information Technology is a record of bonafide work carried out by them under my guidance.

SATYADEVI MAM
Professor
Internal Guide

Dr. K. Ram Mohan Rao
HOD, IT

ACKNOWLEDGEMENT

The satisfaction that accompanies the successful completion of the project would not have been possible without the kind support and help of many individuals. We would like to extend my sincere thanks to all of them. We would like to take the opportunity to express our humble gratitude to **SATYADEVI MAM** under whom we executed this project. We would also use this opportunity to thank our Head Of Department Dr K.Ram Mohan Rao. We would also like to thank all faculty members and staff of the Department of Information Technology for their generous help in various ways for the completion of this project.

1. ABSTRACT

Technical skills are sets of abilities every person must and should develop to thrive in the present technological era. Our project mainly aids the students in cracking the interviews in top-notch companies by helping them understand the subject easily through visual simulations and by analysing their performance by using ML algorithms.

Web-Scraping has been used in this project of ours, where the courses are fetched directly from the YouTube Data API V3. When in dilemma, Assistance is provided to the user using Chatbot which processes the queries using a natural language processing toolkit.

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CHAPTER 1

1. INTRODUCTION

1.1 Motivation

A normal student will always be perplexed about their future. The way he/she must prepare for their goals. The way he/she must update him/herself every day. In the ever-growing world with a new upcoming technology striking us every day it is a challenge for any student to cope with the amount of competition to secure their jobs currently. Hacker streak will help these students to learn the required courses for the interviews. Visual simulations will help them understand the concept better and efficiently. With access to various companies' information, previous statistics, and threshold grades, the student will push him/herself forward as much as possible to be recruited by them. By knowing the percentile, the student can assess where they stand and hence will try to push themselves.

1.2 Problem statement

Economics Times points out that 20-33% out of the 1.5 million jobless engineers in India are passing out every year to run the risk of not getting a job at all and most of them get hired well below their TECHNICAL QUALIFICATION. Most Indian engineering colleges provide no or very bad exposure about how the industry works & what the industry needs and they have no clue what the industry is like.

1.3 Project Objectives

A normal student will always be perplexed about their future. The way he/she must prepare for their goals. The way he/she must update him/herself every day. In the ever-growing world with a new upcoming technology striking us every day it is a challenge for any student to cope with the amount of competition to secure their jobs currently. Hacker streak will help these students to learn the required courses for the interviews. Visual simulations will help them understand the concept better and efficiently. With access to various companies' information, previous statistics, and threshold grades, the student will push him/herself forward as much as possible to be recruited by them.

CHAPTER 2

2. Technical Literature

Market Research:

Inspired from:

LinkedIn is the world's largest professional network on the internet. You can use LinkedIn to find the right job or internship, and connect and strengthen professional relationships.

LOG2BASE2 is a visual learning platform to learn programming, Data Structures and Algorithms. Log2Base2 explains what happens when the code gets executed using beautiful visuals which help to understand and grasp tough and important concepts.

STUDY BUDDY provides the online space and place where students can meet to complete their homework. They aim at providing all the over and above aid that a student might require to get a Deeper and better understanding of concepts.

CHAPTER 3

3. Existing method/System

3.1 Drawbacks:

- 1) A pause and resume option for the user is not available. If any user wants to watch any video, he/she must search and start it from the start.
- 2) History of what videos the user has watched is not available either.

CHAPTER 4

4. Proposed System

4.1 System requirements and specifications

4.1.1 Hardware Requirements

- 1GB RAM
- 1GB CORE

4.1.2 Software Requirements

- **PYCHARM – 2021.3:**

PyCharm is an integrated development environment or IDE. An IDE is a primary tool for any professional programmer. PyCharm acts like a true IDE for Python, but unlike Visual Studio, PyCharm is geared specifically and only for Python development. It contains workflows for creating and maintaining virtual environments, a visual counterpart for the Pep library manager, linters that keep your code compliant with Pep 8 standards and a host of other handy general development tools.

- **INTERPRETER:**

Visual Studio Code- It features a lightning-fast source code editor, perfect for day-to-day use. With support for hundreds of languages, VS Code helps you be instantly productive with syntax highlighting, bracket-matching, auto-indentation, box-selection, snippets, and more.

- **PYTHON-FLASK:**

Flask Framework:

Flask is a microweb framework written in python. It is classified as a microframework because it does not require tools or libraries. It has no database abstraction layer, form validation, or any other components where pre-existing third-party libraries provide common functions. However, Flask supports extensions that can add application features as if they were implemented in Flask itself. Extensions exist for object-relational mappers, form validation, upload handling, various open authentication technologies and several common framework related tools.

- **BOOTSTRAP- WEB DESIGNING:**

Bootstrap is a free and open-source front-end framework for designing websites and web applications. It contains HTML- and CSS-based design templates for typography, forms, buttons, navigation, and other interface components, as well as optional JavaScript extensions.

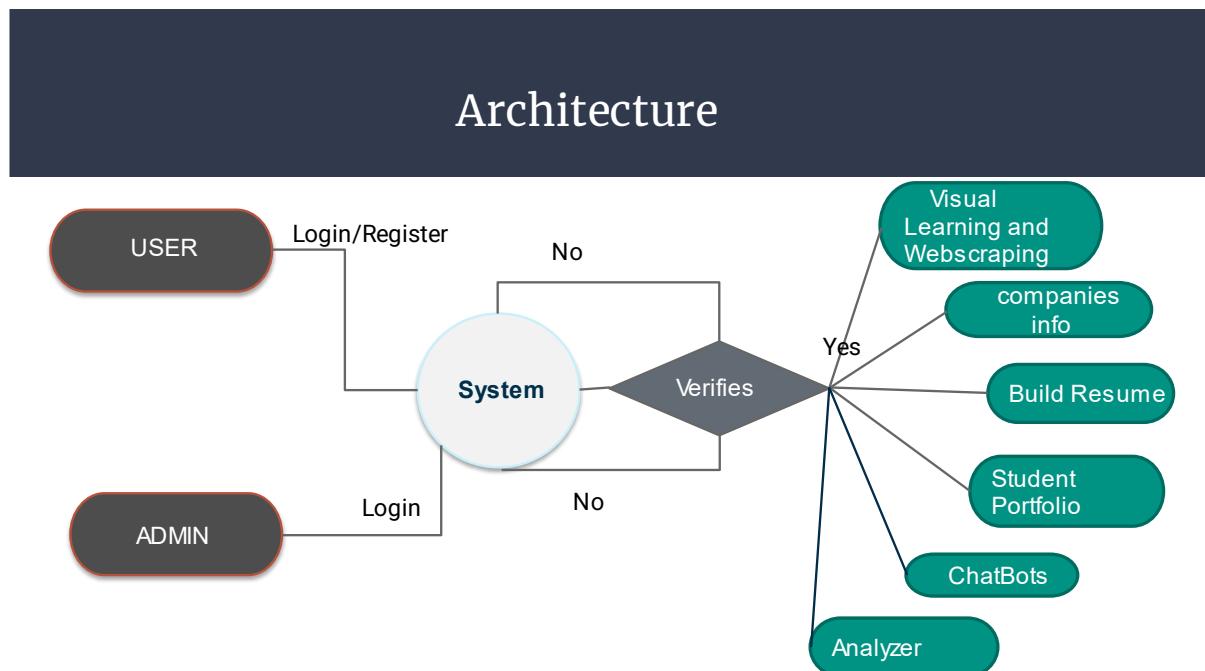
4.2 Architecture

Front-End:

- 1) HTML
- 2) CSS
- 3) JAVA SCRIPT
- 4) BOOTSTRAP

Back-End:

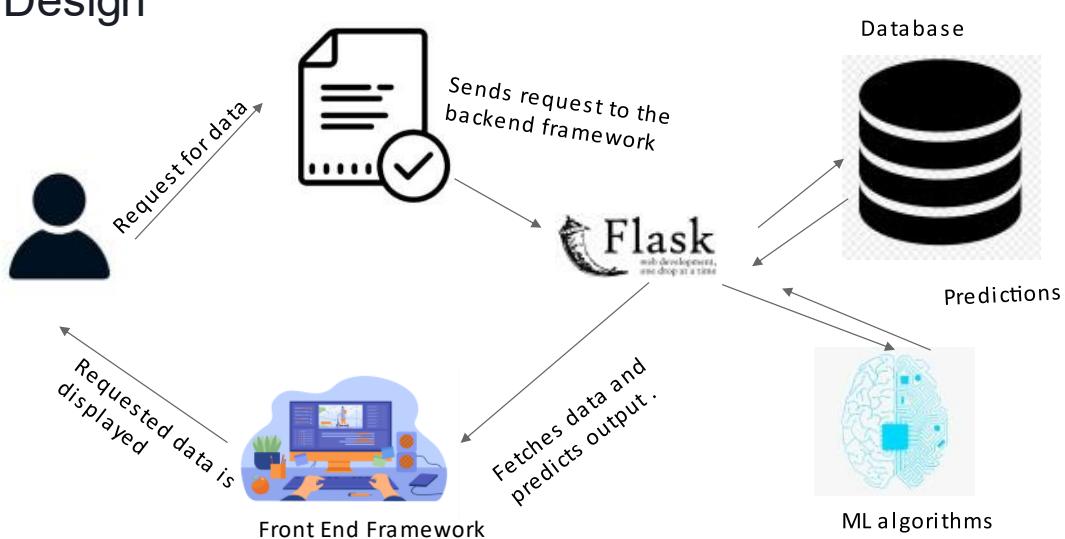
- 1) SQLlite3
- 2) FLASK



CHAPTER 5

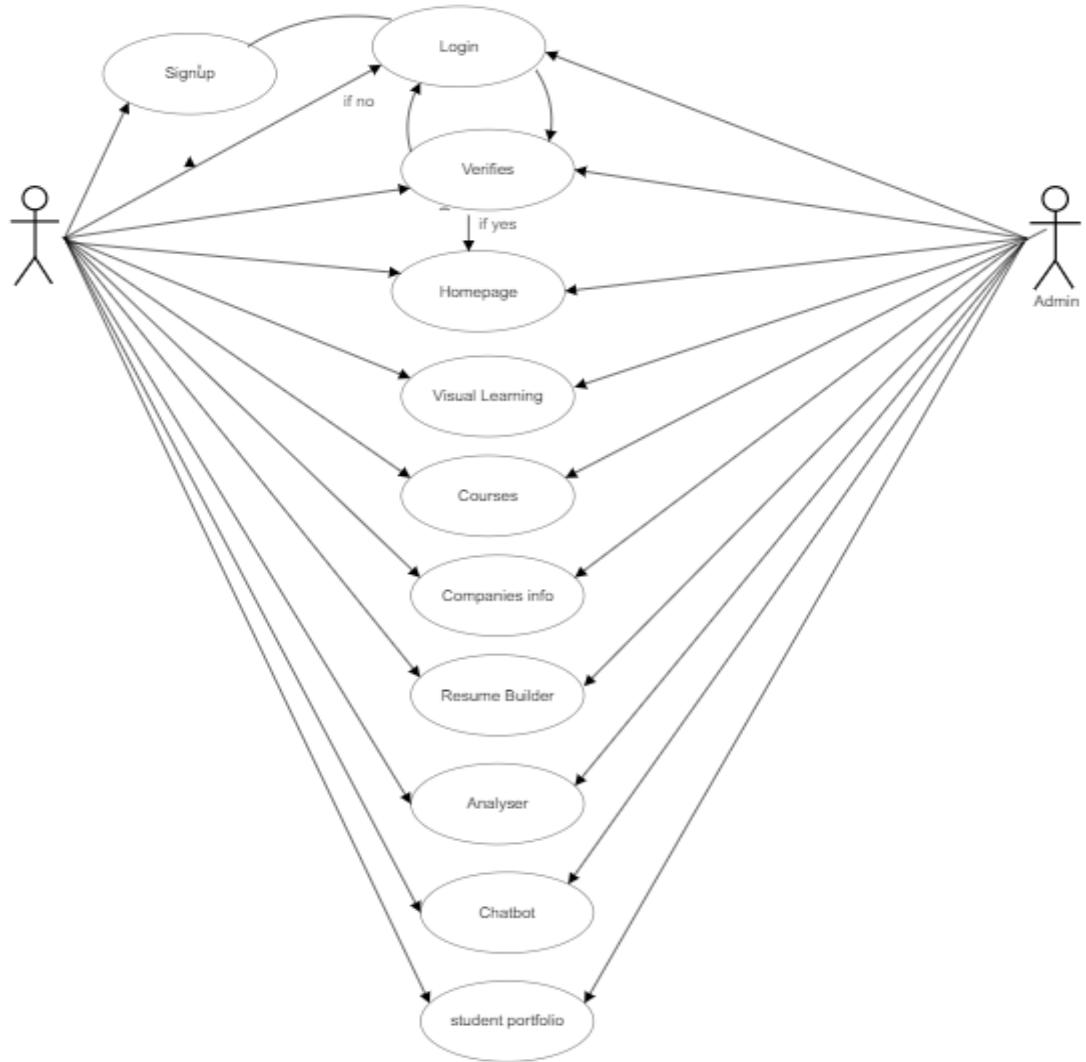
5. Design

Design

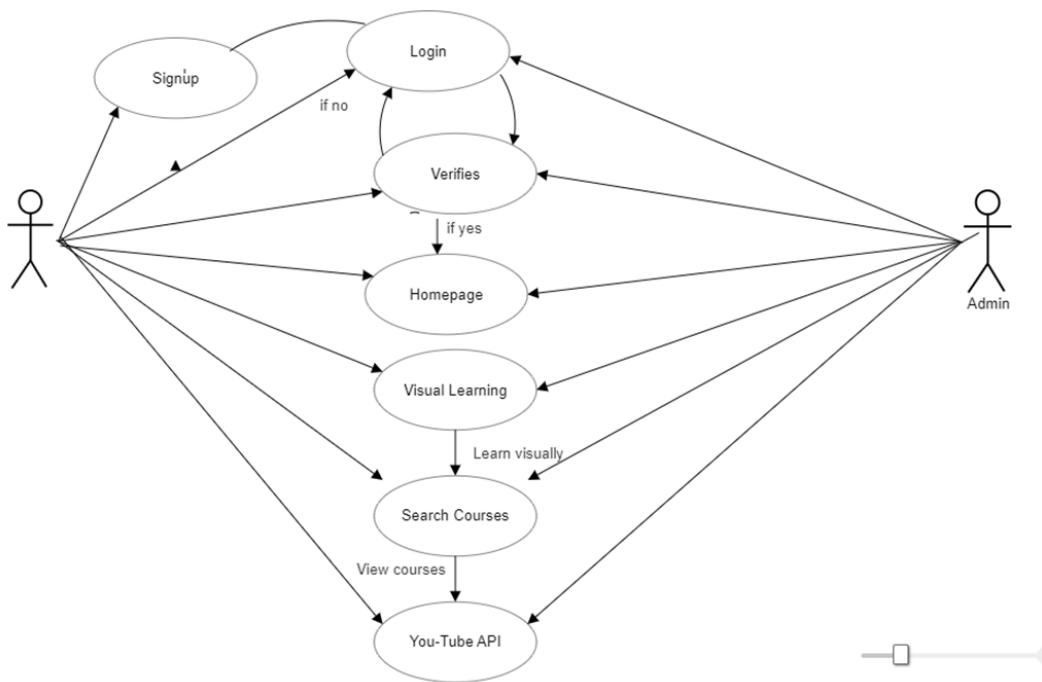


5.1 UML DIAGRAM/UX DIAGRAMS

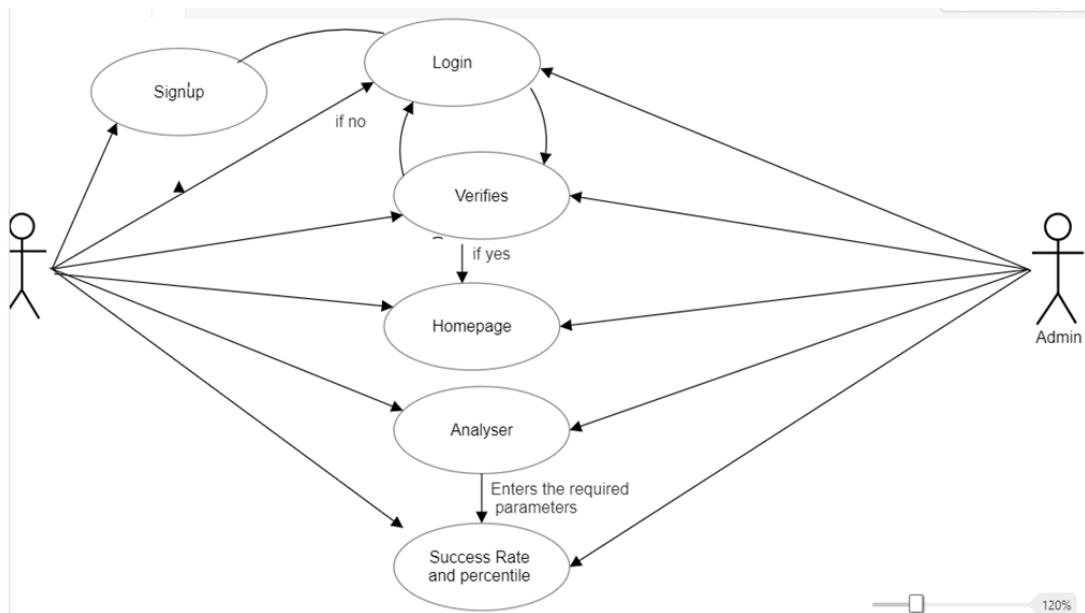
1. USE CASES:



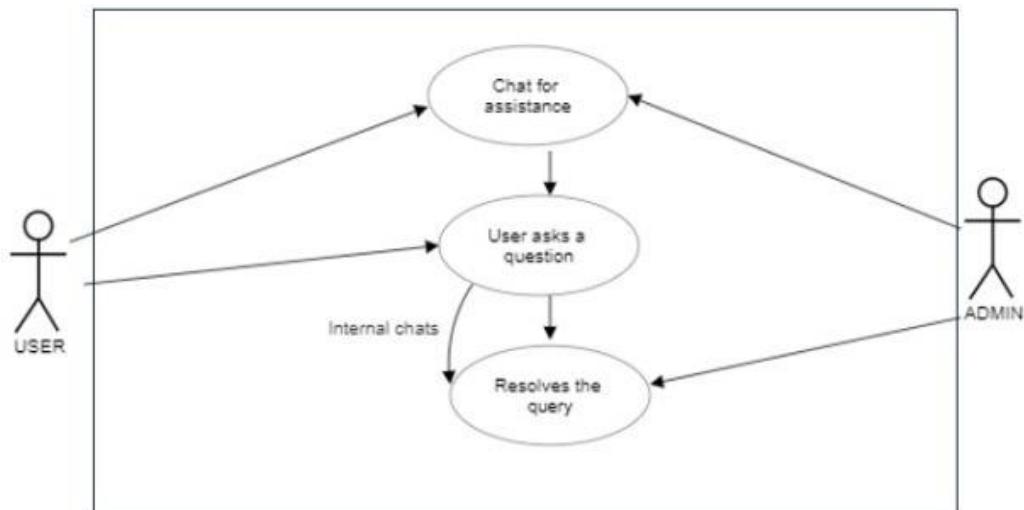
Use case description for visual learning module



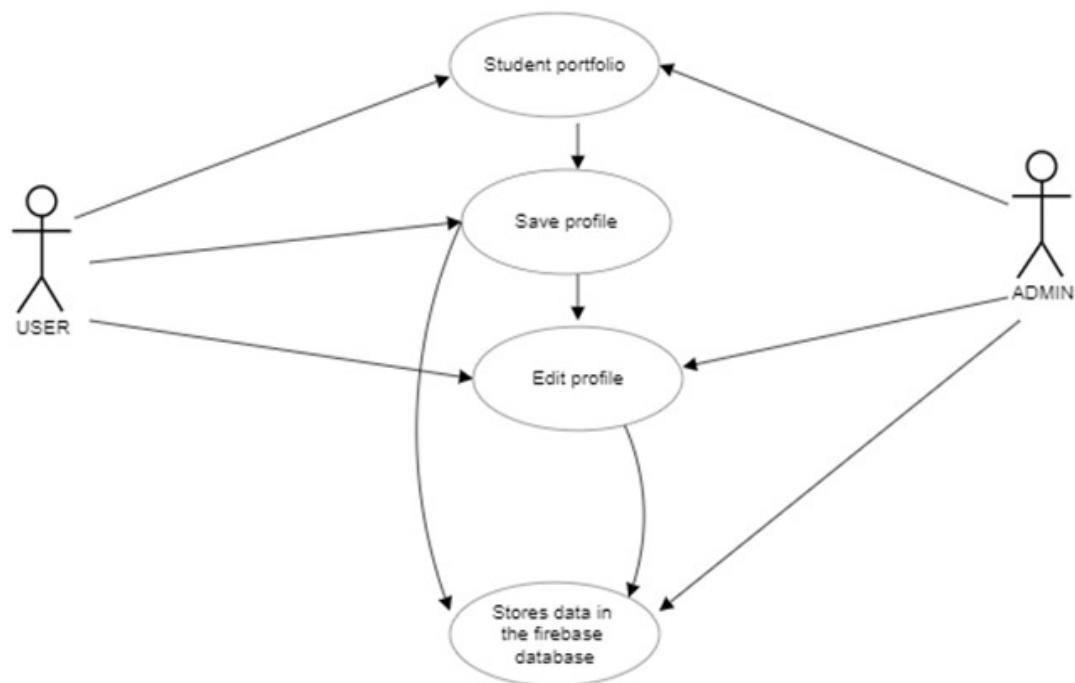
Use case description for Performance Analyzer module



Use case description for Chatbot module

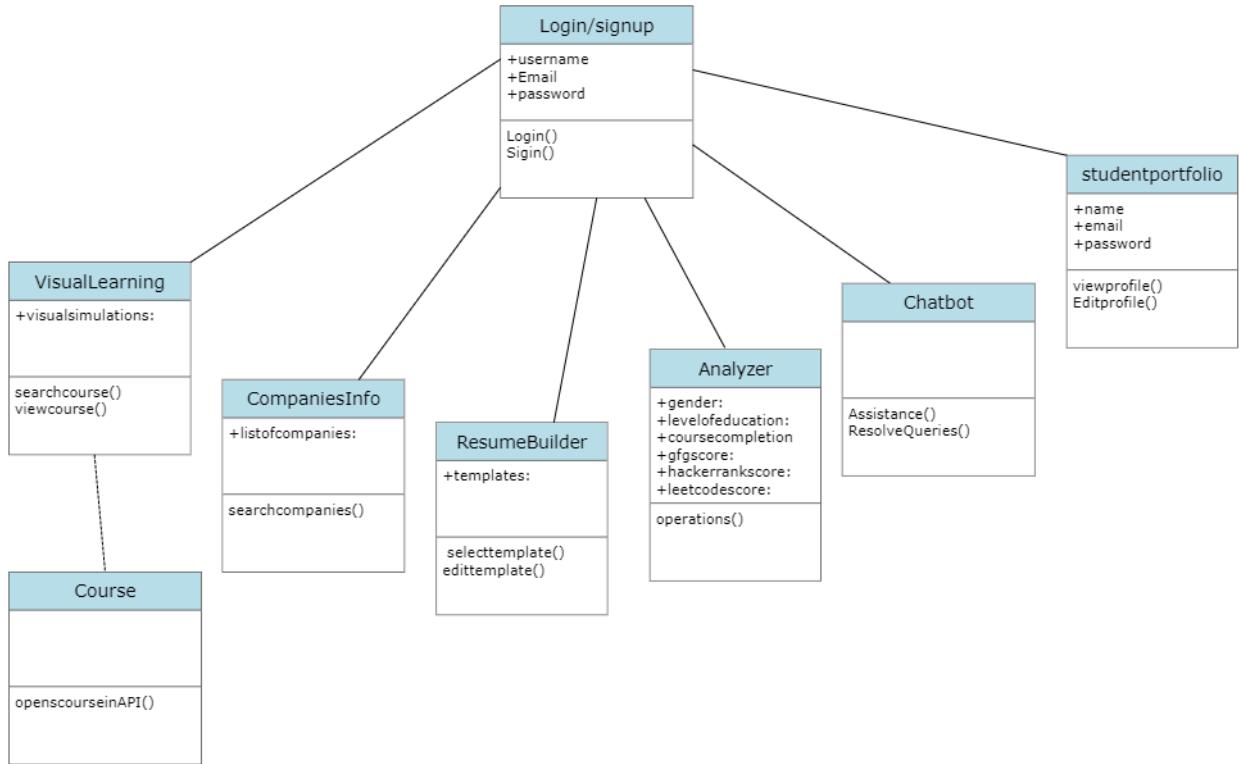


Use case description for Chatbot module



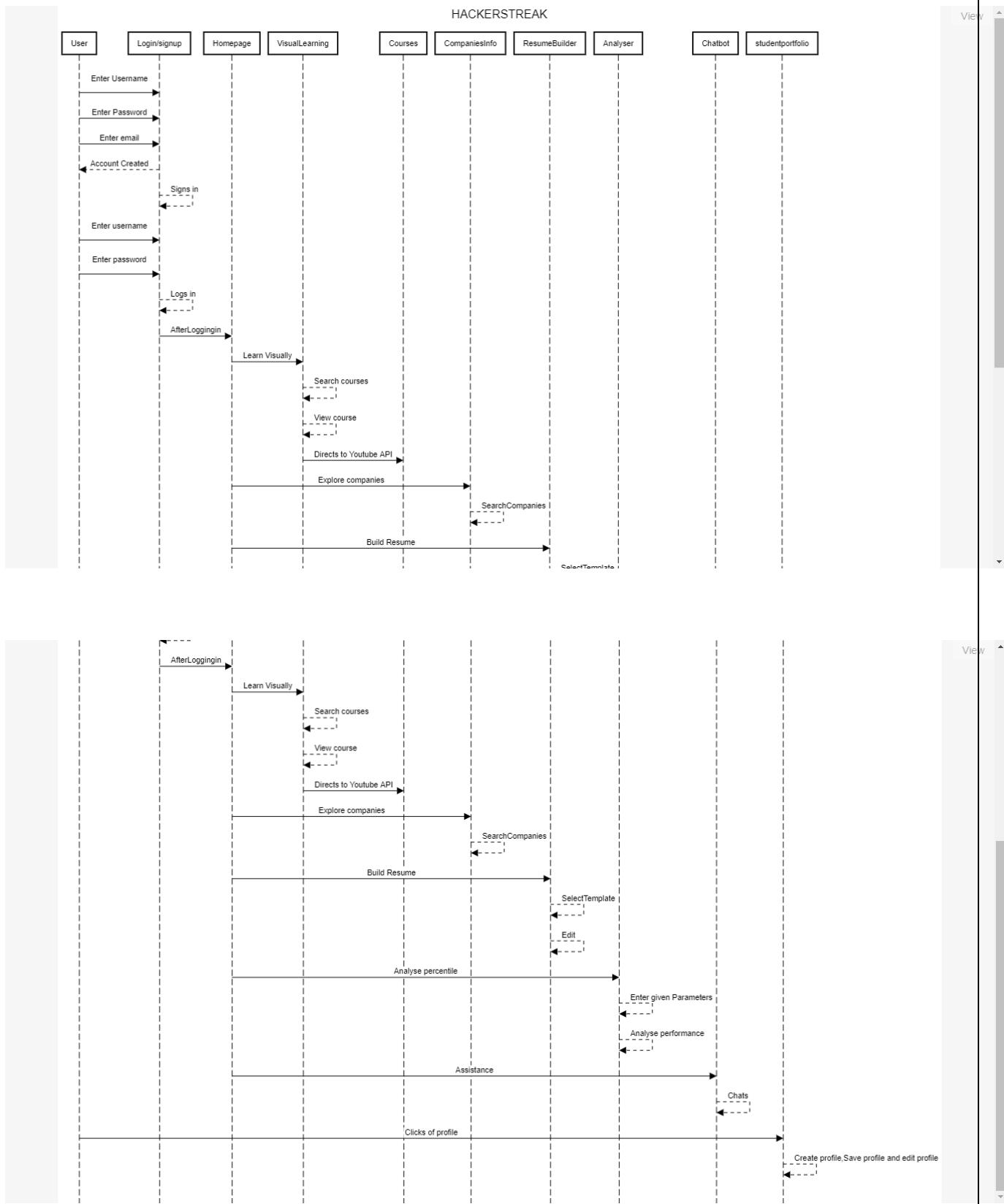
2. CLASS:

The class diagram is static. It represents the static view of an application. (no need)



3. SEQUENCE

A sequence diagram simply depicts the interaction between objects in sequential order i.e., the order in which these interactions take place. We can also use the terms event diagrams or event scenarios to refer to a sequence diagram. Sequence diagrams describe how and in what order the objects in a system function. (not needed)



5.2. DATABASE SCHEMA

```
1. sign_in(username TEXT PRIMARY KEY, password TEXT, email TEXT) [database used is SQLITE]

2. companies(username TEXT PRIMARY KEY, info TEXT) [database used is SQLITE]

3.profiles(name, college, mobileno, address, gender, achievements, state, area, email, education) [database used is firebase]
```

CHAPTER 6

6. IMPLEMENTATION & TESTING

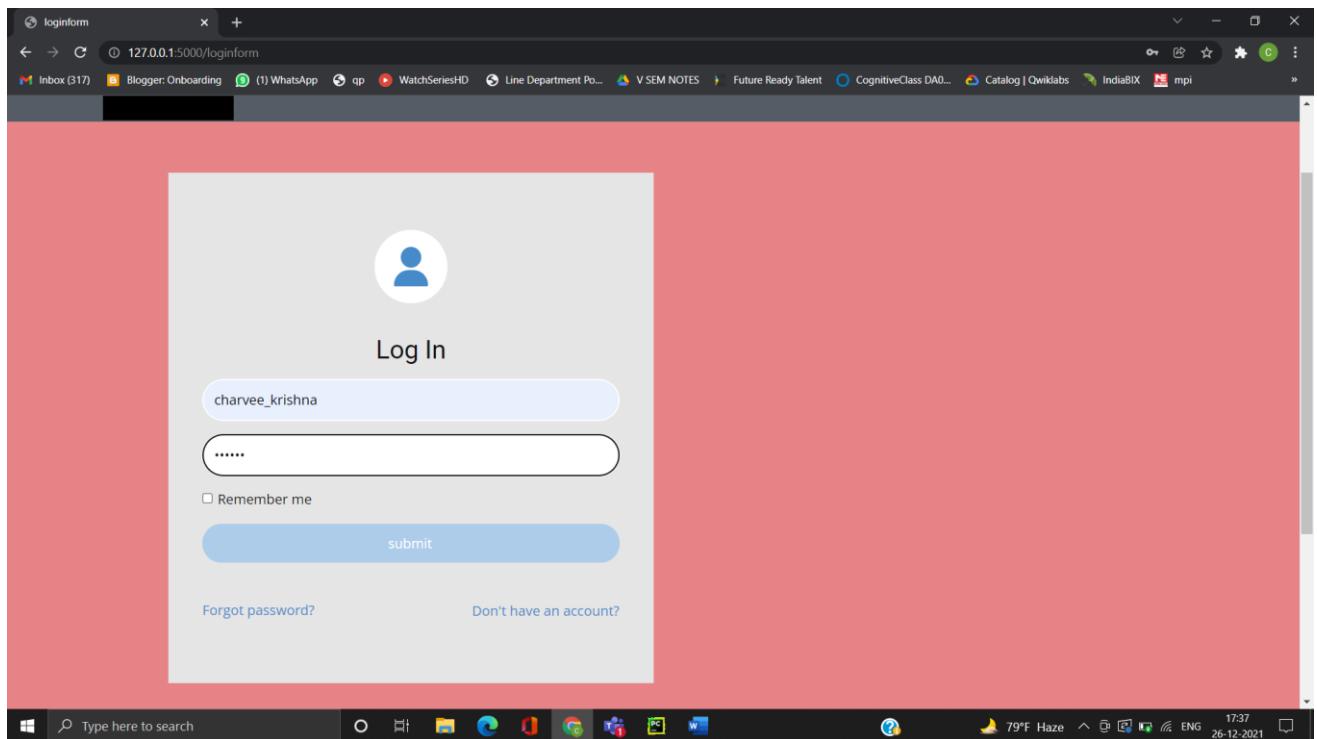
6.1 SCREENSHOTS AND TESTING

TESTING:

- Password is validated using flask built-in password hashing mechanism.
- Email is validated by checking '@' and '.' at the admin input using <input type="email">

Login/Signup module testing:

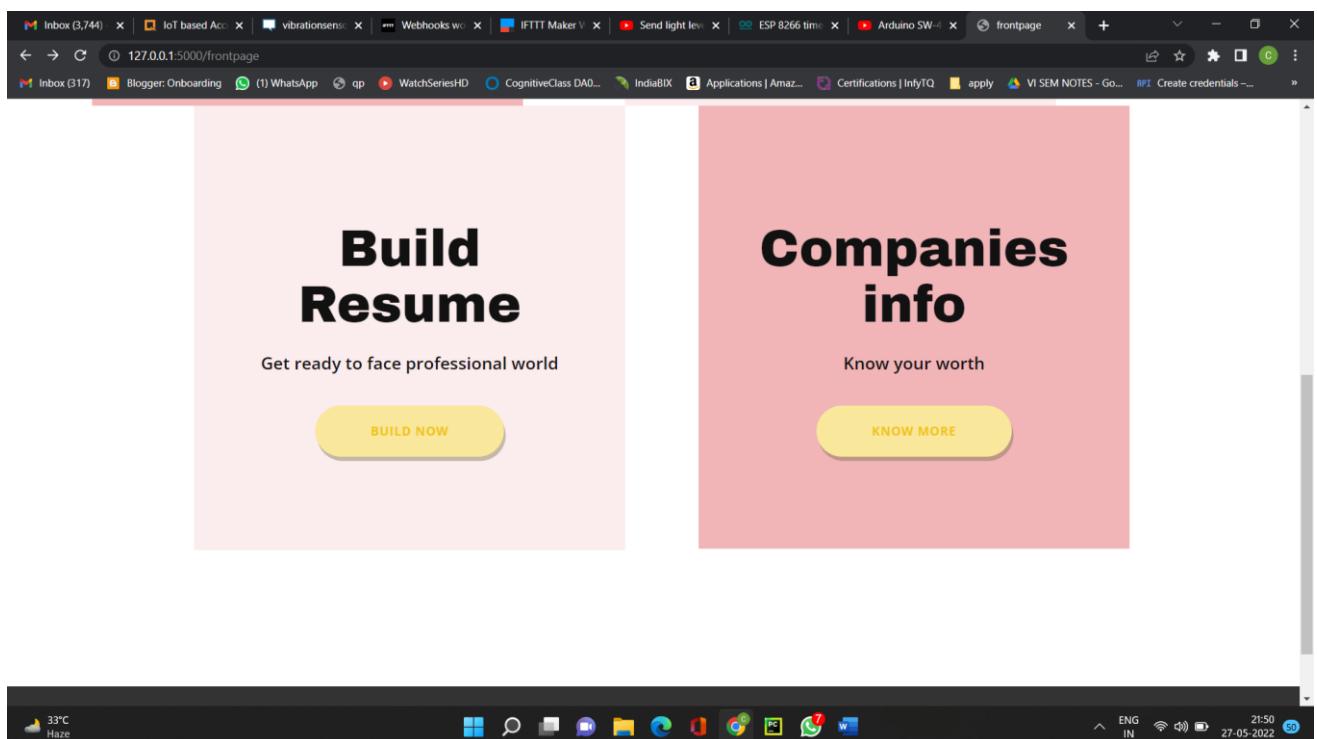
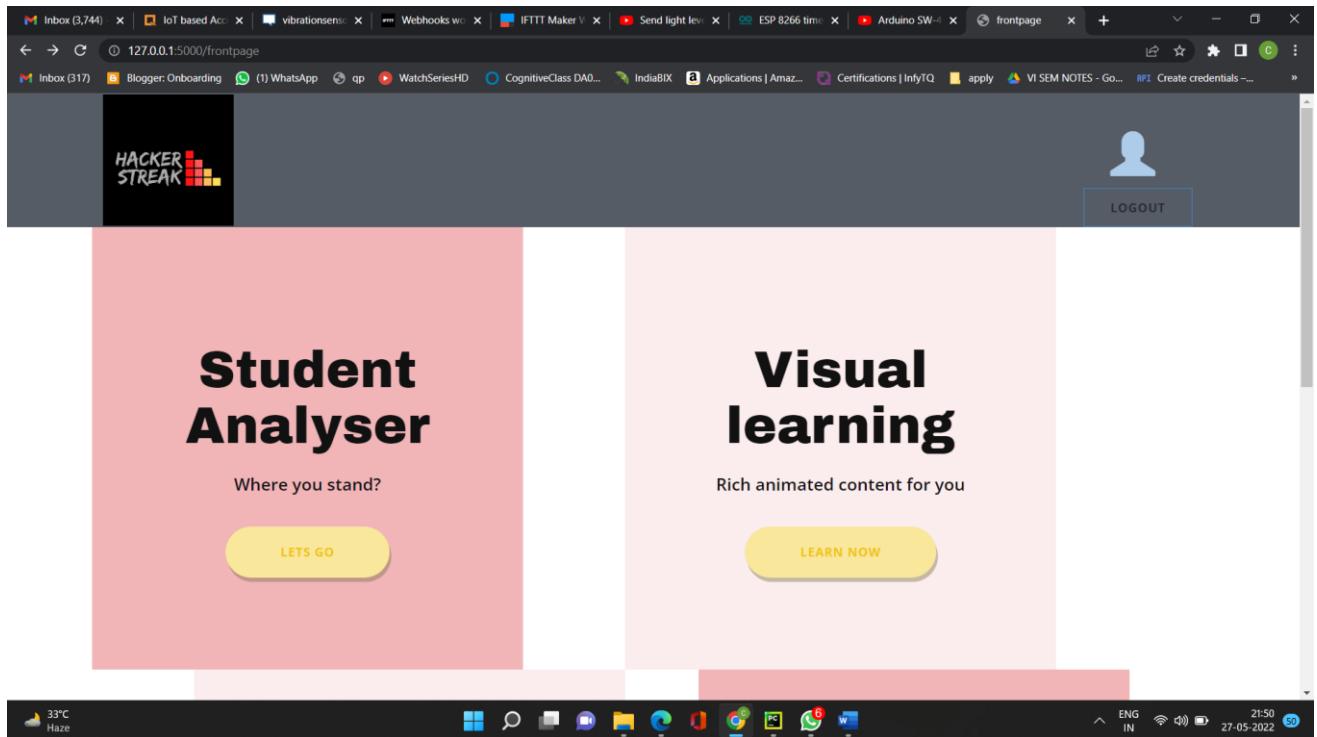
- a) log in with correct credentials (registered user)



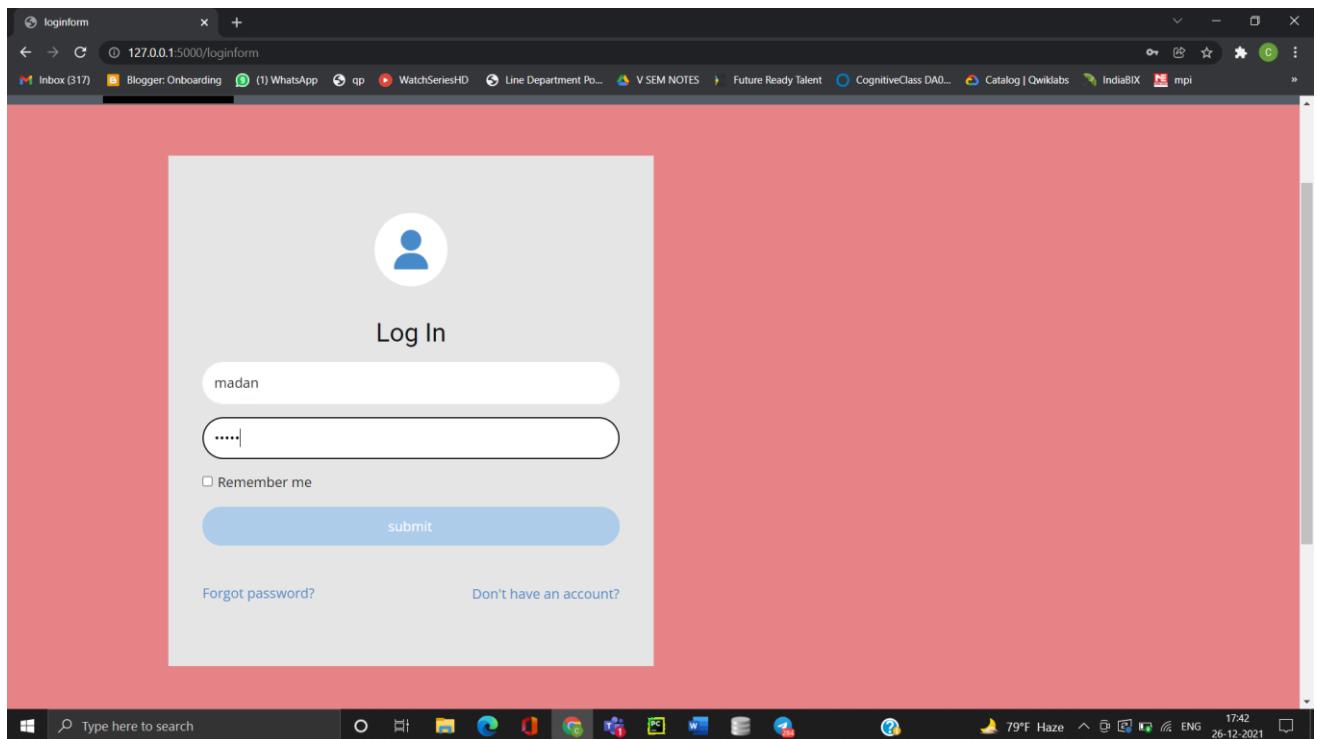
Login table(database)

A screenshot of DB Browser for SQLite. The title bar says "DB Browser for SQLite - C:\Users\hp\Desktop\HS\database.db". The main interface has two panes: "Database Structure" on the left and "DB Schema" on the right. In the "Database Structure" pane, there is a table named "login" with columns "username" and "password". A single row is visible: "charvee_krishna" in the username column and "123456" in the password column. In the "DB Schema" pane, the "Tables (3)" section is expanded, showing three tables: "companies", "login", and "signin". The "CREATE TABLE" SQL statements for each are listed: "CREATE TABLE companies()", "CREATE TABLE login()", and "CREATE TABLE signin()". There are also sections for "Indices (0)", "Views (0)", and "Triggers (0)".

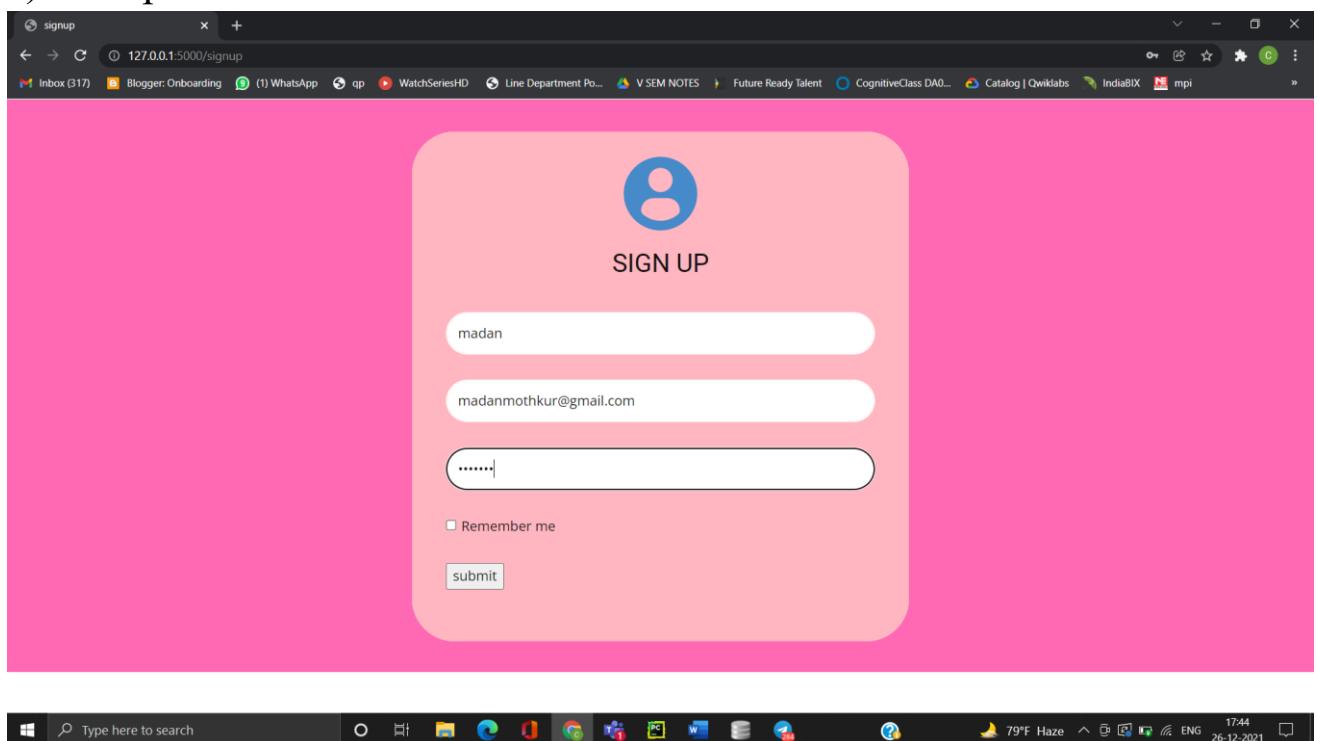
Redirects to the front page if credentials match



b) login with incorrect credentials (redirects to login page again)



c) user opts for ‘don’t have an account’



Sign-in table (database)

DB Browser for SQLite - C:\Users\hp\Desktop\HS\database.db

Table: signin		
username	password	email
1 charvee_krishna	123456	charveekrishnan@gmail.com
2 sathvik_13	sath	sath@gmail.com
3 sravya	srsvaya	srvkrishnan@gmail.com
4 chrv	123	har@gmail.com
5 madan	madan15	madanmothkur@gmail.com

Database Structure Browse Data Edit Pragmas Execute SQL

DB Schema

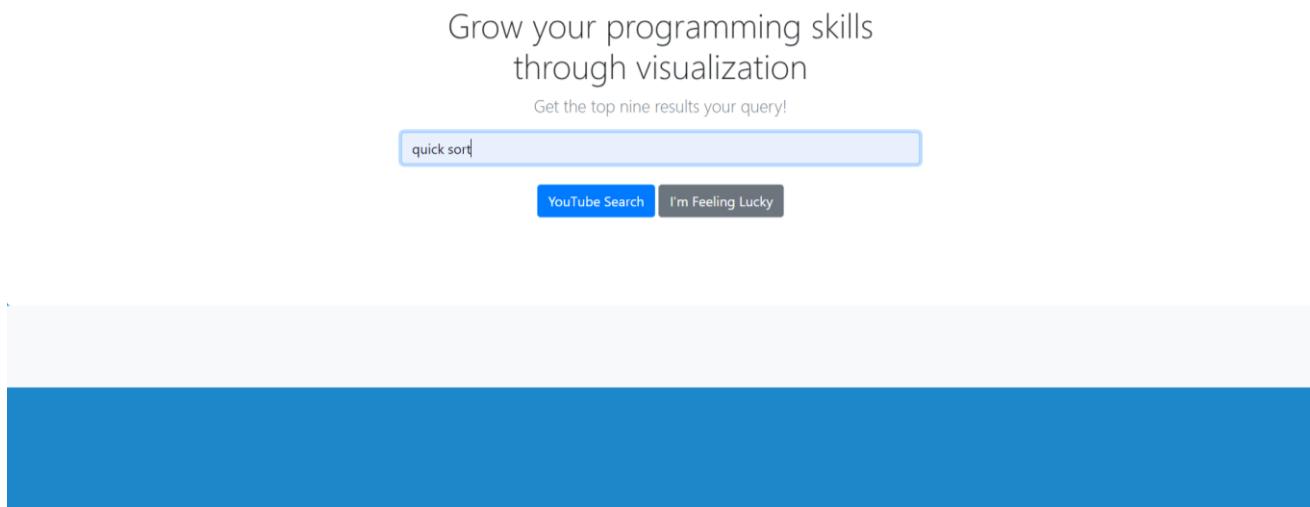
Name	Type	Schema
Tables (3)		
> companies		CREATE TABLE companies
> login		CREATE TABLE login(u
> signin		CREATE TABLE signin(
Indices (0)		
Views (0)		
Triggers (0)		

SQL Log Plot DB Schema

UTF-8

Redirects user to the front page

Visual learning module (testing): [webscraping]



9 Results based on search query:

Inbox (3,744) | IoT based Acc... | vibrationsens... | Webhooks wo... | IFTTT Maker V... | Send light lev... | ESP 8266 time... | Arduino SW... | Search YouTub... | 127.0.0.1:5000/webscrap

← → ⌂ 127.0.0.1:5000/webscrap

YouTube Search I'm Feeling Lucky

Grow your programming skills through visualization

Get the top nine results your query!

Quick Sort | GeeksforGeeks

Visualization of Quick sort (HD)

Quick sort in 4 minutes

Inbox (3,744) | IoT based Acc... | vibrationsens... | Webhooks wo... | IFTTT Maker V... | Send light lev... | ESP 8266 time... | Arduino SW... | Search YouTub... | 127.0.0.1:5000/webscrap

← → ⌂ 127.0.0.1:5000/webscrap

Coding Challenge #143: Quicksort Visualization

QuickSort example

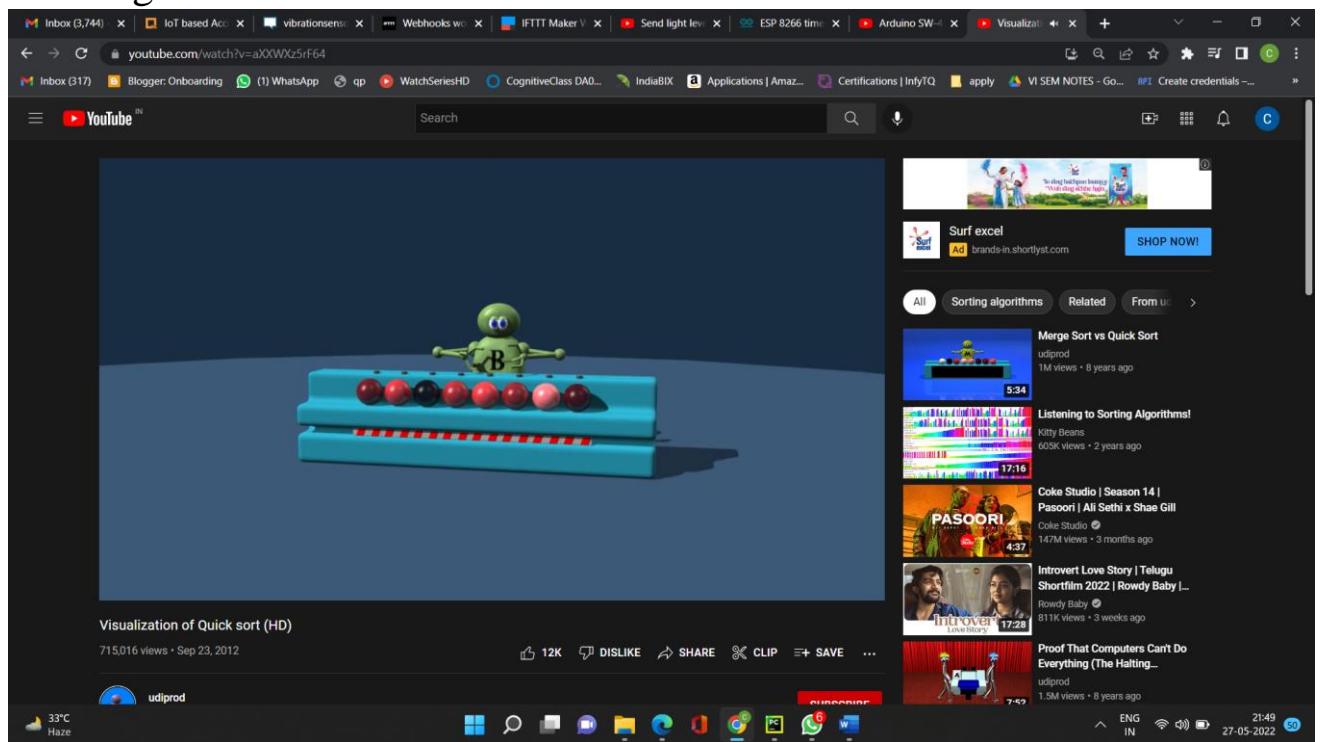
Quicksort: Partitioning an array

2.8.1 QuickSort Algorithm

Quick Sort Animation | Algorithm | Code

15 Sorting Algorithms in 6 Minutes

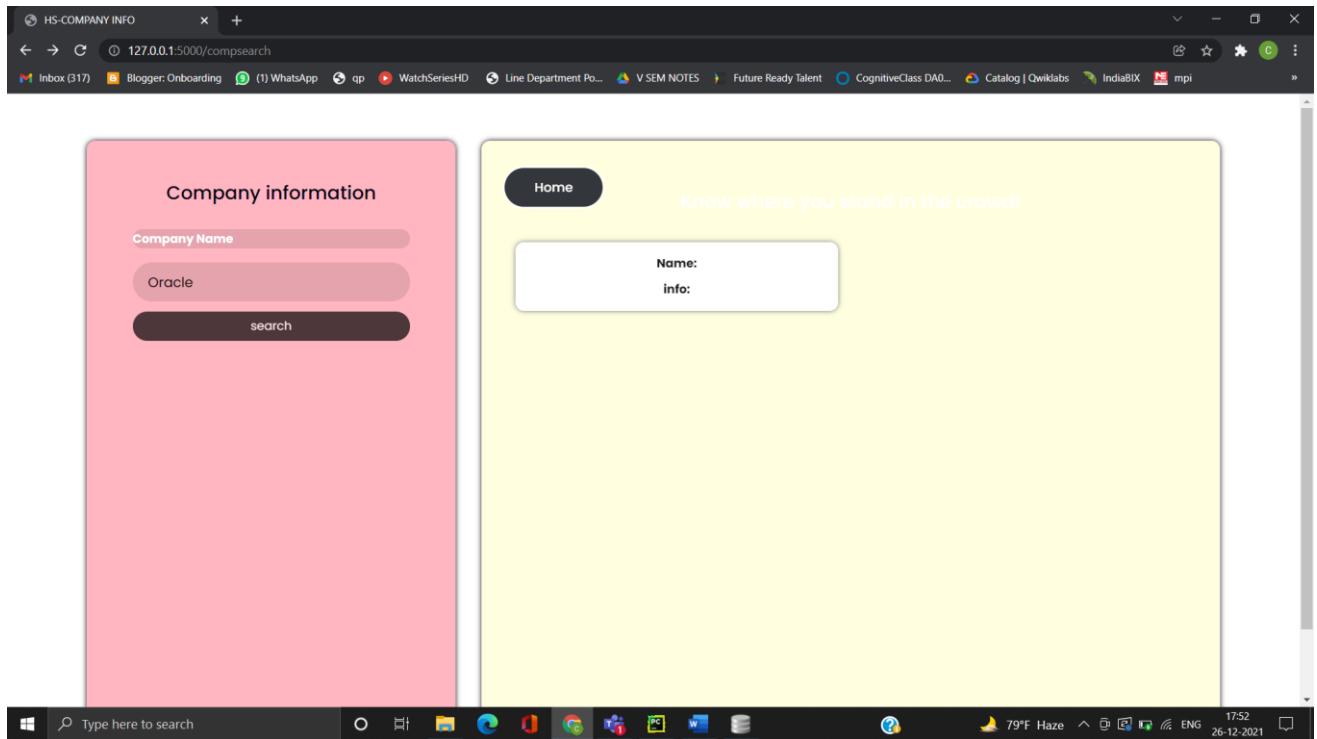
Clicking on view :



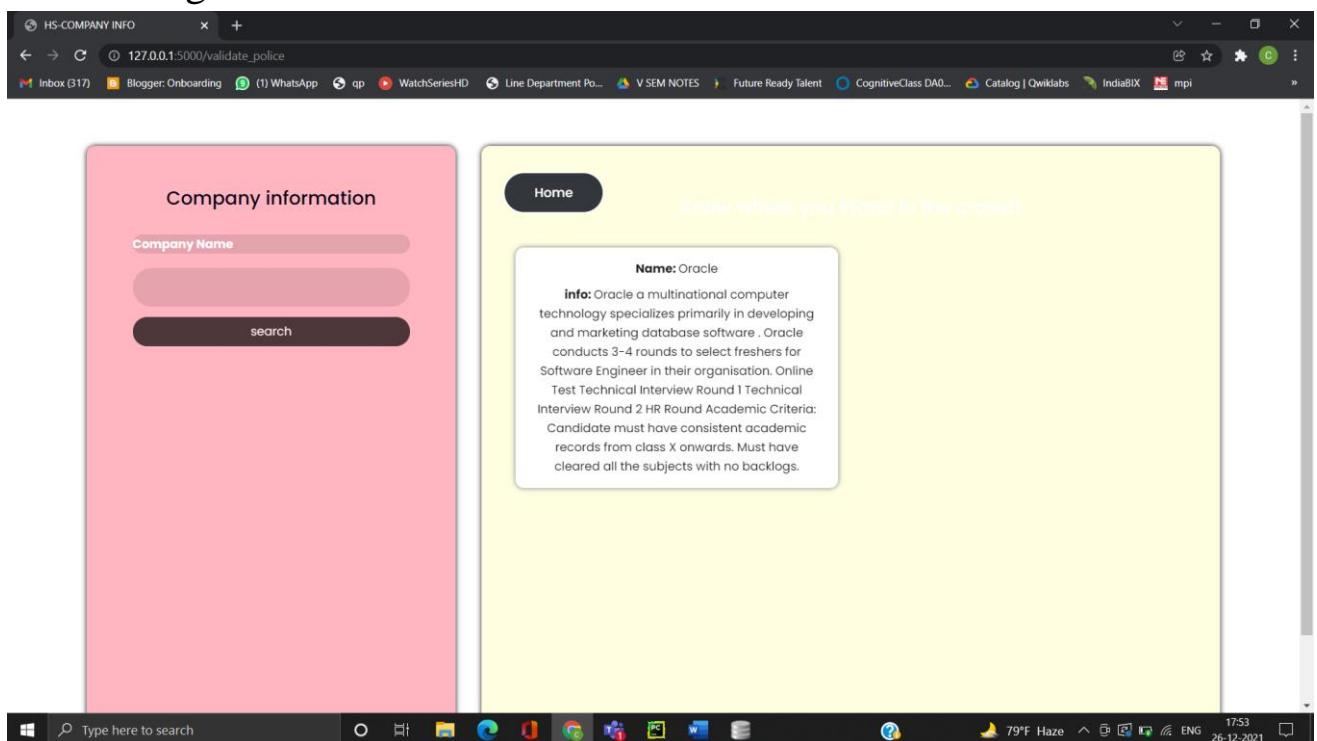
Companies info module testing:

Companies info table(database)

DB Browser for SQLite - C:\Users\hp\Desktop\HS\database.db		
File Edit View Tools Help		
New Database Open Database Write Changes Revert Changes Open Project Save Project Attach Database		
Table:	complaints	DB Schema
username	info	Name Type Schema
1 Amazon	Amazon is an American electronic ...	Tables (3) CREATE TABLE companies (username, info); CREATE TABLE login (username, password); CREATE TABLE signin (username, password);
2 Infosys	Infosys Limited is an Indian ...	Indices (0)
3 Oracle	Oracle a multinational computer ...	Views (0)
4 Microsoft	Microsoft develops, manufactures, ...	Triggers (0)
5 Qualcomm	Qualcomm is an American ...	
6 Deloitte	Deloitte is one of the "Big Four" ...	
7 Capgemini	Capgemini is a global leader in ...	
8 TCS	Tata Consultancy Services is a global ...	
9 Tech Mahindra	Tech Mahindra represents the ...	
10 Accenture	Accenture plc is an Irish-based ...	
11 IBM	IBM has a diverse portfolio of IT ...	
12 Adobe	Adobe Inc., originally called Adobe ...	
13 Cisco	Cisco manufactures and sells ...	
14 Service now	Service now that develops a cloud ...	
15 Cognizant	Cognizant is an American mnc that ...	
16 Wipro	Wipro Limited is an Indian ...	
17 Google	Google LLC is an American ...	



On clicking the search button



Resume building module testing:

The screenshot shows a resume builder interface with a green header and sidebar. The sidebar contains various settings like 'Template settings', 'List style', and 'Show/Hide sections'. The main content area displays a resume for 'charvee krishna' with sections for Education, Experience, Publications, and Projects. The resume includes contact information, academic details, and professional experience at 'ABC'.

Education

Year	Degree / Certificate	Institute / Board	CGPA/Percentage
2015 - Present	B.Tech	vasavi college of engg	9.2 (Current)
2015	Senior secondary	CBSE board	97.0%
2013	Secondary	CBSE board	10.0

Experience

- XYZ Engineer at 'ABC' May 2016 - July 2016
www.abc.in
Analyzed app usage statistics to recommend items based on user's preference.
- XYZ Engineer at 'ABC' Dec 2015
www.abc.in
Designed methods to improve the existing unit test mechanism.

Publications

- Advanced analysis of damping motion PCES 2010
Mentors
- Efficient ranking of search results LOCS 2010
Mentors

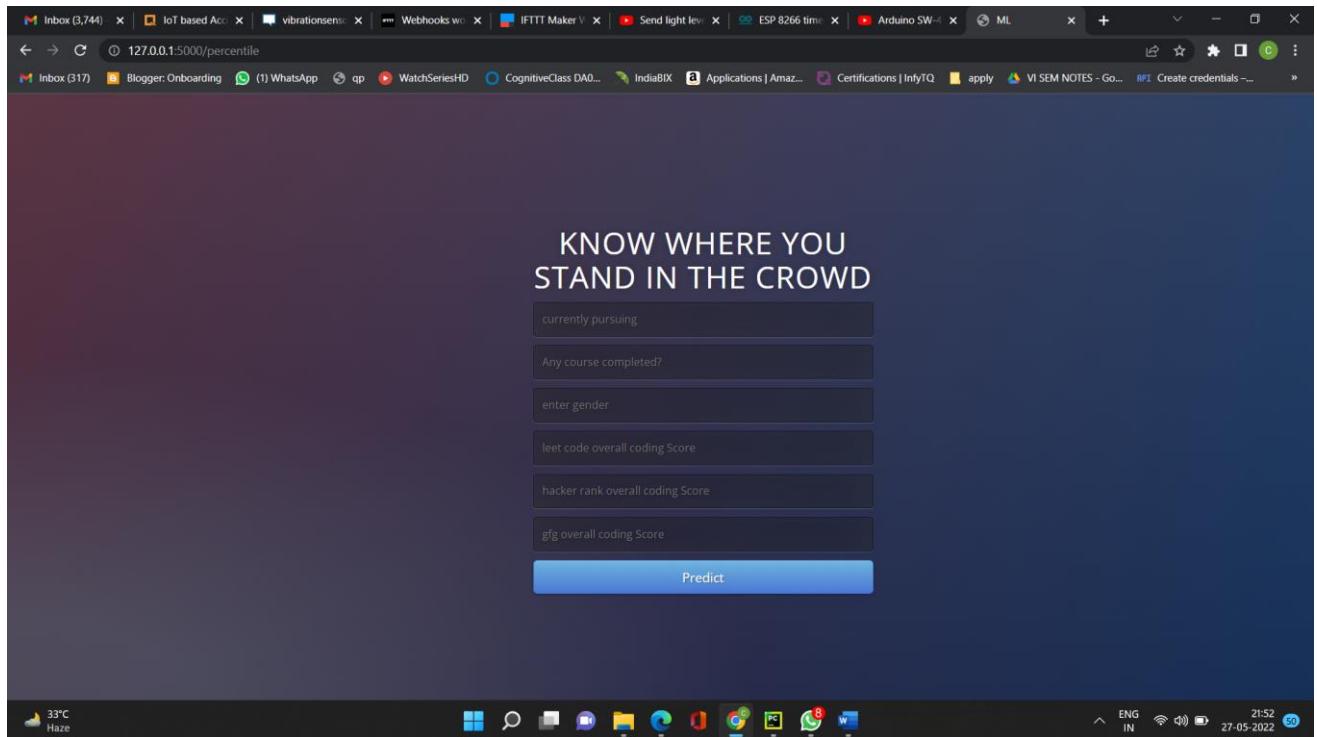
Projects

- Project title Ongoing
Project Mentor
Graphical interface to share files over institute's network.
- Project title Apr 2016
Dr XYZ, Associate Professor, Dept. of XXX, IIT Gorakhpur
Graphical interface to share files over institute's network.
- Project title Jan 2016 - Mar 2016
www.xyz.in
Project Mentor
Graphical interface to share files over institute's network.
- Project title Feb 2016
www.xyz.in
Project Mentor
Graphical interface to share files over institute's network.

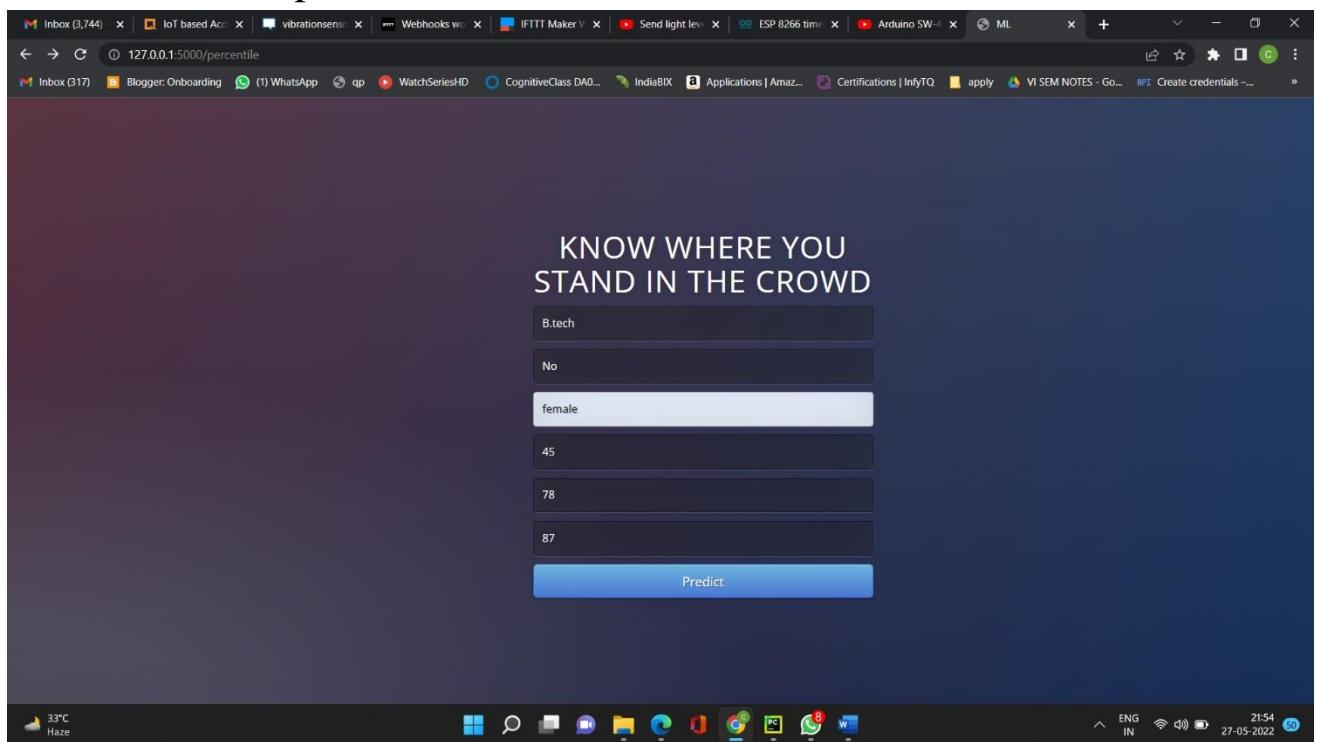
Saving your resume to PC:

The screenshot shows the same resume builder interface as above, but with a 'Print' dialog box overlaid. The dialog allows selecting a destination (Brother HL-2320D), pages (All), copies (1), and layout (Portrait). The 'More settings' button is visible. The status bar at the bottom shows system information like temperature, battery level, and date.

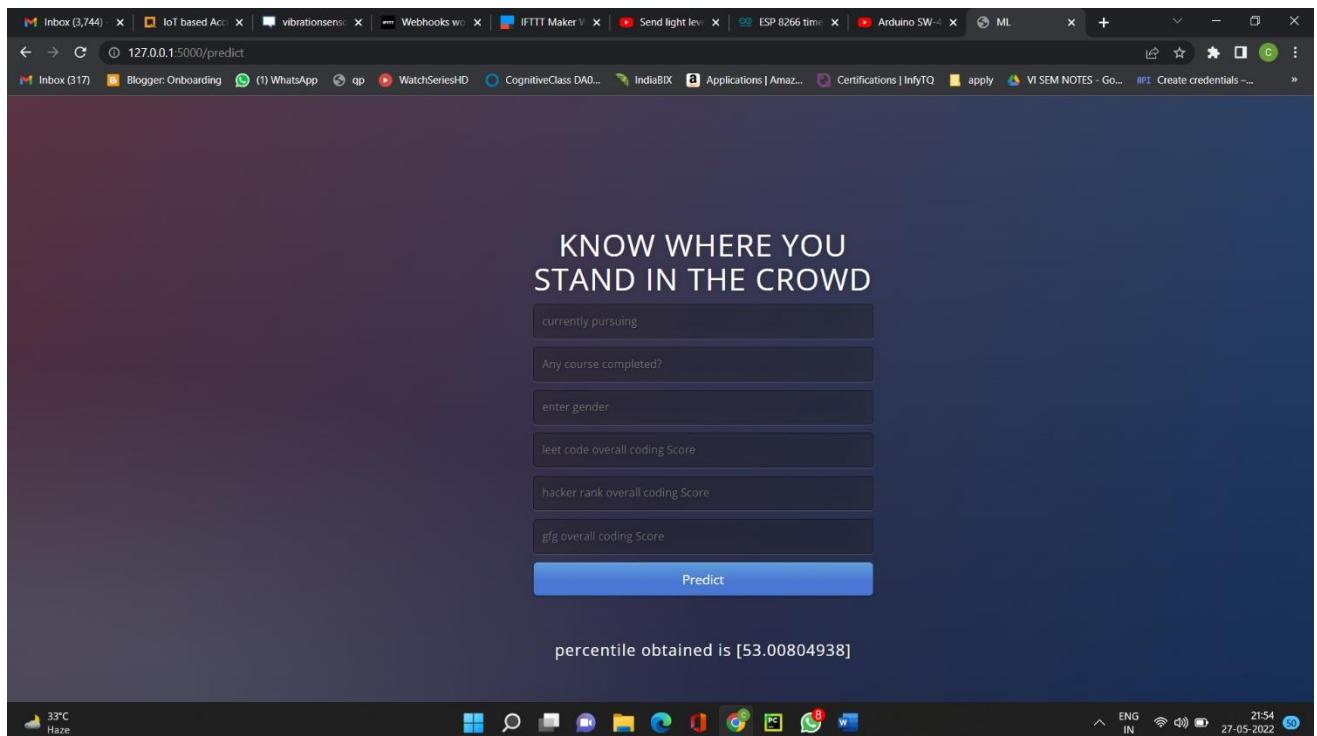
Student analyser:



Enter the fields specified:

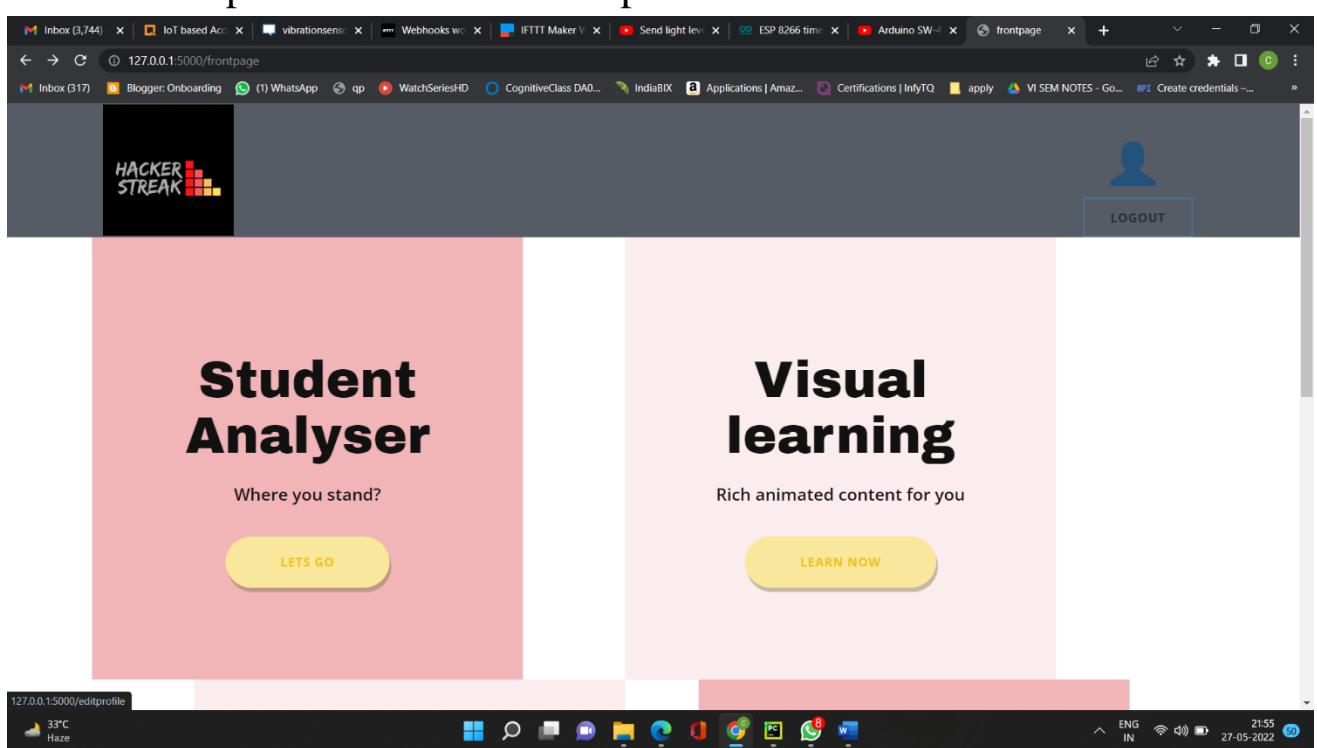


ML prediction of percentile



Student portfolio:

Click on the profile icon to create a profile



Enter the details:

The screenshot shows a profile settings page with the following fields:

- Name: first name (placeholder)
- College: vasavi college of engineering
- Mobile Number: 0913387500
- Address Line: flat no:203, sai karthik residency, gp rao street
- Gender: female
- Achievements: Merit award 2020
- State: Andhra Pradesh
- Area: vijayawada
- Email ID: charveekrishnan@gmail.com
- Education: BE

Buttons at the bottom: Save Profile, edit Profile.

Save profile:

The screenshot shows a profile settings page with the following fields:

- Name: Krishna Nanduri
- College: vasavi college of engineering
- Mobile Number: 0913387500
- Address Line: flat no:203, sai karthik residency, gp rao street
- Gender: female
- Achievements: Merit award 2020
- State: Andhra Pradesh
- Area: vijayawada
- Email ID: charveekrishnan@gmail.com
- Education: BE

Buttons at the bottom: Save Profile, edit Profile.

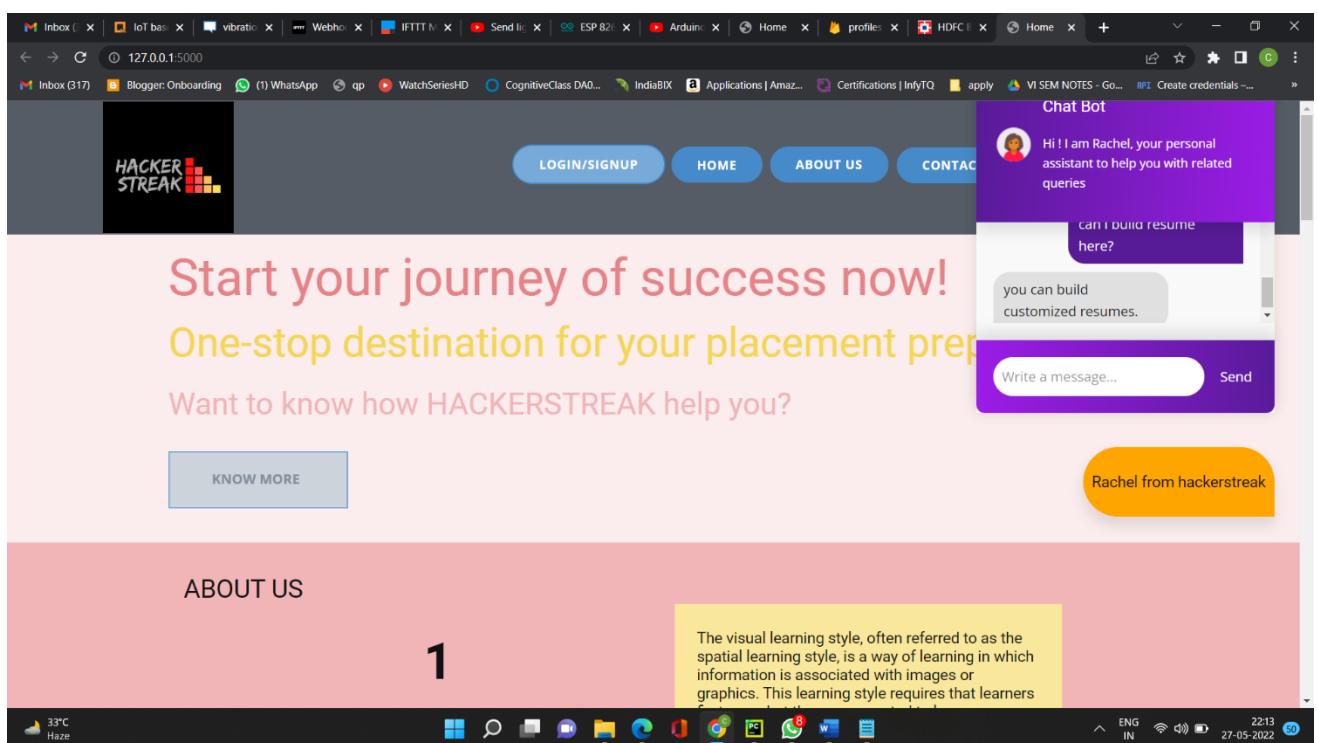
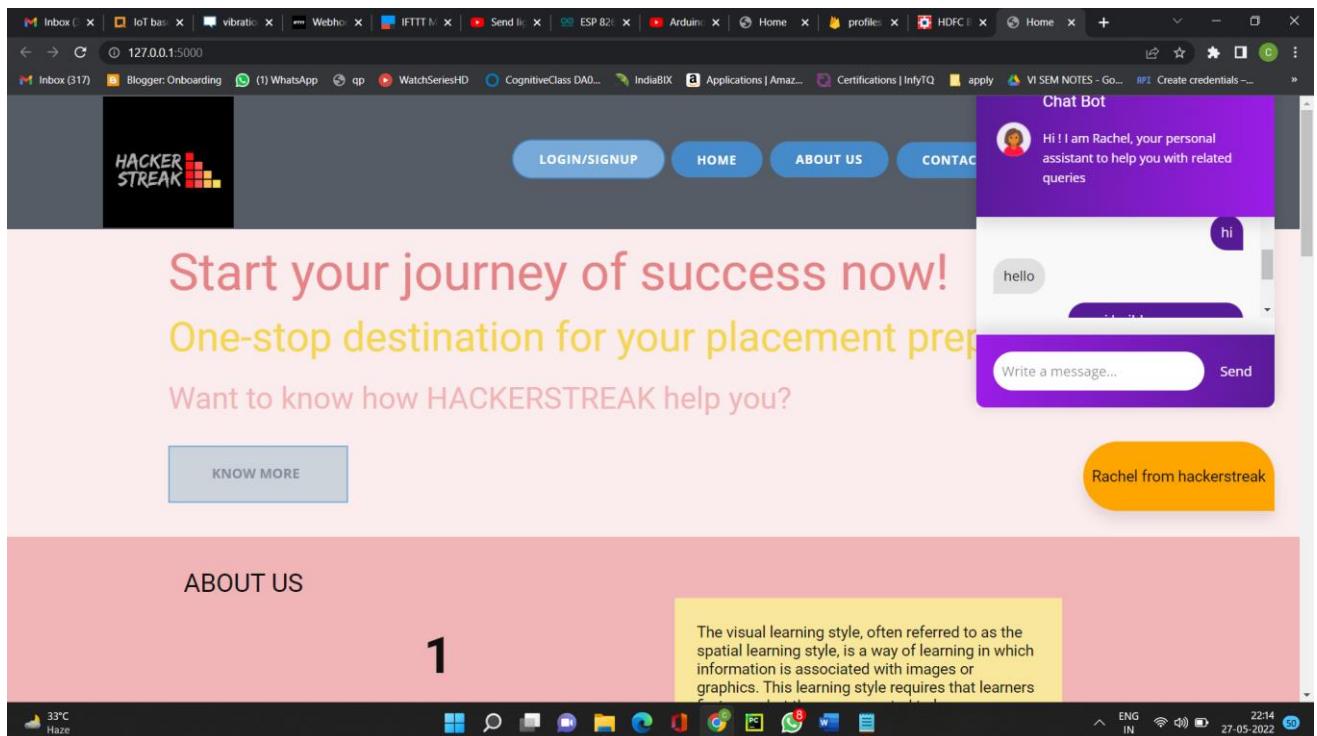
Details stored in firebase:

The screenshot shows the Firebase Realtime Database console. On the left, there's a sidebar with various project settings like Authentication, Firestore Database, and Functions. The main area is titled "Realtime Database" and has tabs for Data, Rules, Backups, and Usage. A browser window is open to the URL <https://profiles-ecbb8-default-rtdb.firebaseio.com/>. The Data tab displays a JSON tree structure under the "profiles" node. One node, "-N35Q_kFEVfejXGLvt6Y:", contains the value "Krishna Nanduri". Another node, "-N35Q_qhzapYj1jj9cat:", contains the value "vasavi college of engineering". A third node, "-N35Q_x7TkX0mg3rv1Z6:", contains the value "0913387503". A fourth node, "-N35Qa2U21cZtZB4Uvfr:", contains the value "flat no:203, sai karthik residency, gp rao street". A fifth node, "-N35Qa8ymqcPSym_ta4:", contains the value "female". A sixth node, "-N35QaDhLhRkTaXY4e_0:", contains the value "Merit award 2020". A seventh node, "-N35QaM-0ZciWM3JpUdzZ:", contains the value "Andhra Pradesh". A eighth node, "-N35QaXA2CEifpaxPIg7:", contains the value "vijayawada". A ninth node, "-N35QacYr7P1PB5gnx9W:", contains the value "charveekrishnan@gmail.com". Below the tree, it says "Database location: United States (us-central)". The bottom right of the screen shows system status: ENG IN, 22:21, 27-05-2022.

ChatBot on the home page: (Rachel)

The screenshot shows a website homepage for "HACKERSTREAK". The header features a logo with the text "HACKER STREAK" and navigation buttons for LOGIN/SIGNUP, HOME, ABOUT US, and CONTACT US. The main content area has a pink background with the text "Start your journey of success now!" in large red font, "One-stop destination for your placement preparation" in yellow font, and "Want to know how HACKERSTREAK help you?" in pink font. Below this is a blue button labeled "KNOW MORE". To the right, a yellow speech bubble contains the text "Rachel from hackerstreak". At the bottom, there's a section titled "ABOUT US" with a large number "1" and a yellow box containing text about visual learning style. The bottom right of the screen shows system status: ENG IN, 22:05, 27-05-2022.

Resolves queries:



7.1.1 Important code snippets

Student analyser:

Model.py

```

import numpy as np
import matplotlib.pyplot as plt
import pandas as pd
import pickle

dataset = pd.read_csv('percentiles_new.csv')

X = dataset.iloc[:, 3:6]

Y = dataset.iloc[:, 6:7]

from sklearn.linear_model import LinearRegression

regressor = LinearRegression()

regressor.fit(X, Y)

pickle.dump(regressor, open('model.pkl', 'wb'))

model = pickle.load(open('model.pkl', 'rb'))

```

main.py (predict function)

```

@app.route('/predict', methods=['POST'])
def predict():
    '''
    For rendering results on HTML GUI
    '''
    int_features = [int(x) for x in request.form.values()]
    final_features = [np.array(int_features)]
    prediction = model.predict(final_features)

    output = prediction[0]

    return render_template('percentile.html', prediction_text='percentile
obtained is {}'.format(output))

```

Percentile.html

```

<!DOCTYPE html>
<html>
<head>
    <meta charset="UTF-8">
    <title>ML </title>
    <link href='https://fonts.googleapis.com/css?family=Pacifico'
rel='stylesheet' type='text/css'>
<link href='https://fonts.googleapis.com/css?family=Arimo' rel='stylesheet'
type='text/css'>
<link href='https://fonts.googleapis.com/css?family=Hind:300'
rel='stylesheet' type='text/css'>
<link
href='https://fonts.googleapis.com/css?family=Open+Sans+Condensed:300'
rel='stylesheet' type='text/css'>

```

```

        <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css"
">
        <script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>
        <script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>

<link rel="stylesheet" href="{{ url_for('static', filename='predict.css') }}>

</head>

<body>
    <div class="login">
        <h1>KNOW WHERE YOU STAND IN THE CROWD</h1>

        <!-- Main Input For Receiving Query to our ML -->
        <form>
            <input type="text" name="Level of Education" placeholder="currently
pursuing" required="required" />
            <input type="text" name="Technical course completion "
placeholder="Any course completed?" required="required" />
            <input type="text" name="gender" placeholder="enter gender"
required="required" />
        </form>

        <form action="{{ url_for('predict') }}" method="post">

            <input type="text" name="leet code" placeholder="leet code overall
coding Score" required="required" />
            <input type="text" name="hacker rank" placeholder="hacker rank
overall coding Score" required="required" />
            <input type="text" name="geeks for geeks" placeholder="gfg overall
coding Score" required="required" />

            <button type="submit" class="btn btn-primary btn-block btn-
large">Predict</button>
        </form>

        <br>
        <br>
        {{ prediction_text }}
    </div>

```

```
</body>
</html>
```

Webscrap function(main.py)

```
@app.route('/webscrap', methods=['GET', 'POST'])
def webscrap():
    search_url = 'https://www.googleapis.com/youtube/v3/search'
    video_url = 'https://www.googleapis.com/youtube/v3/videos'

    videos = []

    if request.method == 'POST':
        search_params = {
            'key': YOUTUBE_API_KEY,
            'q': request.form.get('query') + ' visual simulations',
            'part': 'snippet',
            'maxResults': 9,
            'type': 'video'
        }
        r = requests.get(search_url, params=search_params)

        results = r.json()['items']

        video_ids = []
        for result in results:
            video_ids.append(result['id']['videoId'])

        if request.form.get('submit') == 'lucky':
            return
    redirect(f'https://www.youtube.com/watch?v={video_ids[0]}')

    video_params = {
        'key': YOUTUBE_API_KEY,
        'id': ','.join(video_ids),
        'part': 'snippet,contentDetails',
        'maxResults': 9
    }

    r = requests.get(video_url, params=video_params)
    results = r.json()['items']
    for result in results:
        video_data = {
            'id': result['id'],
            'url': f'https://www.youtube.com/watch?v={result["id"]}',
            'thumbnail':
                result['snippet']['thumbnails']['high']['url'],
            'duration':
                int(parse_duration(result['contentDetails']['duration']).total_seconds() //
                60),
            'title': result['snippet']['title'],
        }
        videos.append(video_data)
        print(video_data)
```

```
    return render_template('webscrap.html', videos=videos)
```

Portfolio main function:

```
firebase = pyrebase.initialize_app(config)

db = firebase.database()

@app.route('/display', methods=['GET', 'POST'])
def display():
    if request.method == 'POST':
        if request.form['submit'] == 'add':

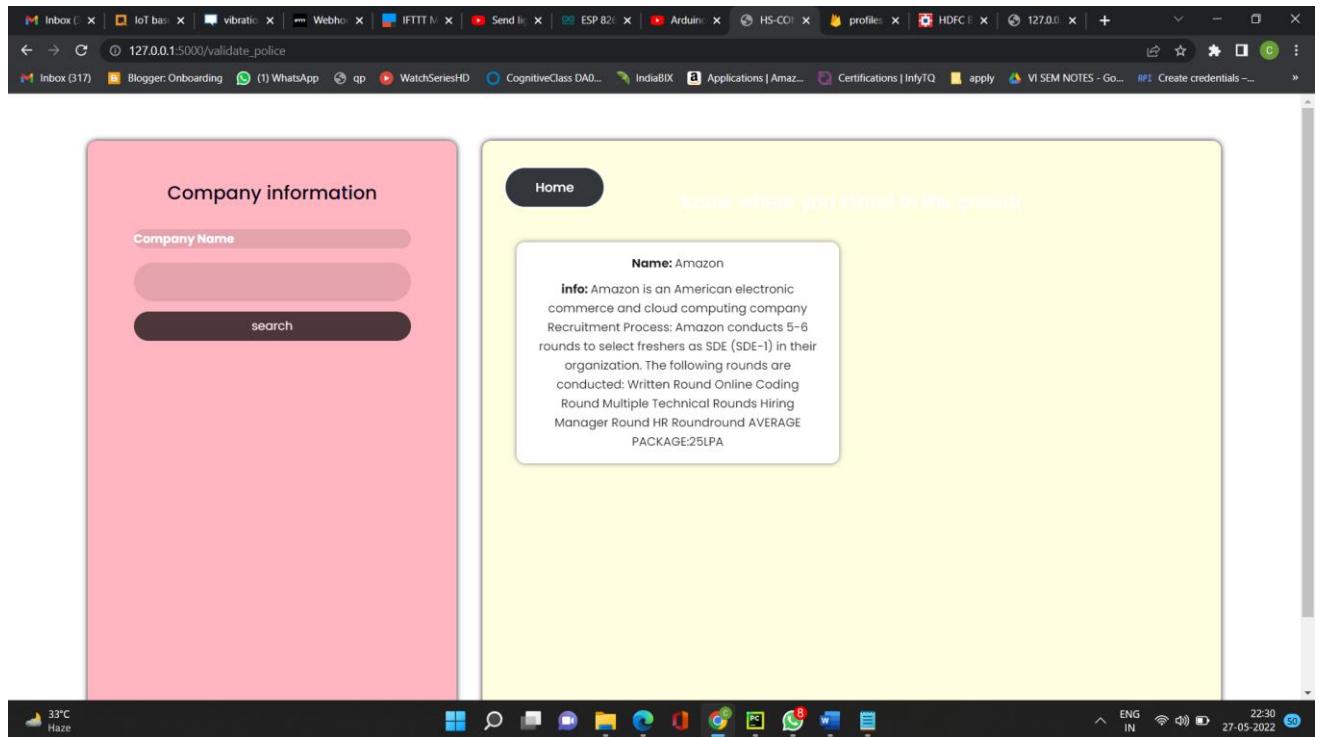
            name = request.form['name']
            college = request.form['college']
            mobileno = request.form['mobileno']
            address = request.form['address']
            gender = request.form['gender']
            achievements = request.form['achievements']
            state = request.form['state']
            area = request.form['area']
            email = request.form['email']
            education = request.form['education']
            print('hi')
            db.child("profiles").push(name)
            db.child("profiles").push(college)
            db.child("profiles").push(mobileno)
            db.child("profiles").push(address)
            db.child("profiles").push(gender)
            db.child("profiles").push(achievements)
            db.child("profiles").push(state)
            db.child("profiles").push(area)
            db.child("profiles").push(email)
            db.child("profiles").push(education)

            todo = db.child("profiles").get()
            to = todo.val()
            return render_template('editprofile.html', t=to.values())
        elif request.form['submit'] == 'delete':
            db.child("profiles").remove()
            return render_template('editprofile.html')
    return render_template('editprofile.html')
```

6.2 RESULTS

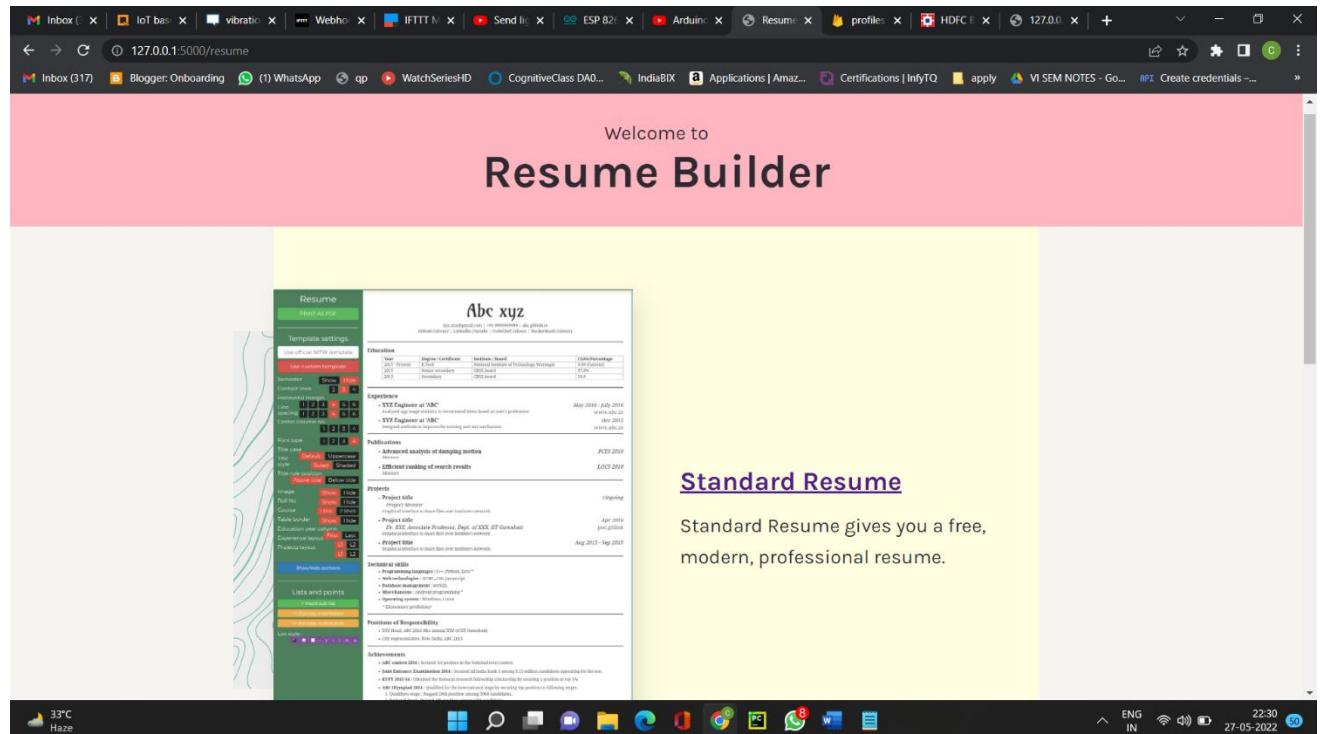
Unlike all other websites Hacker Streak

Provides the users with information about various companies in one place.

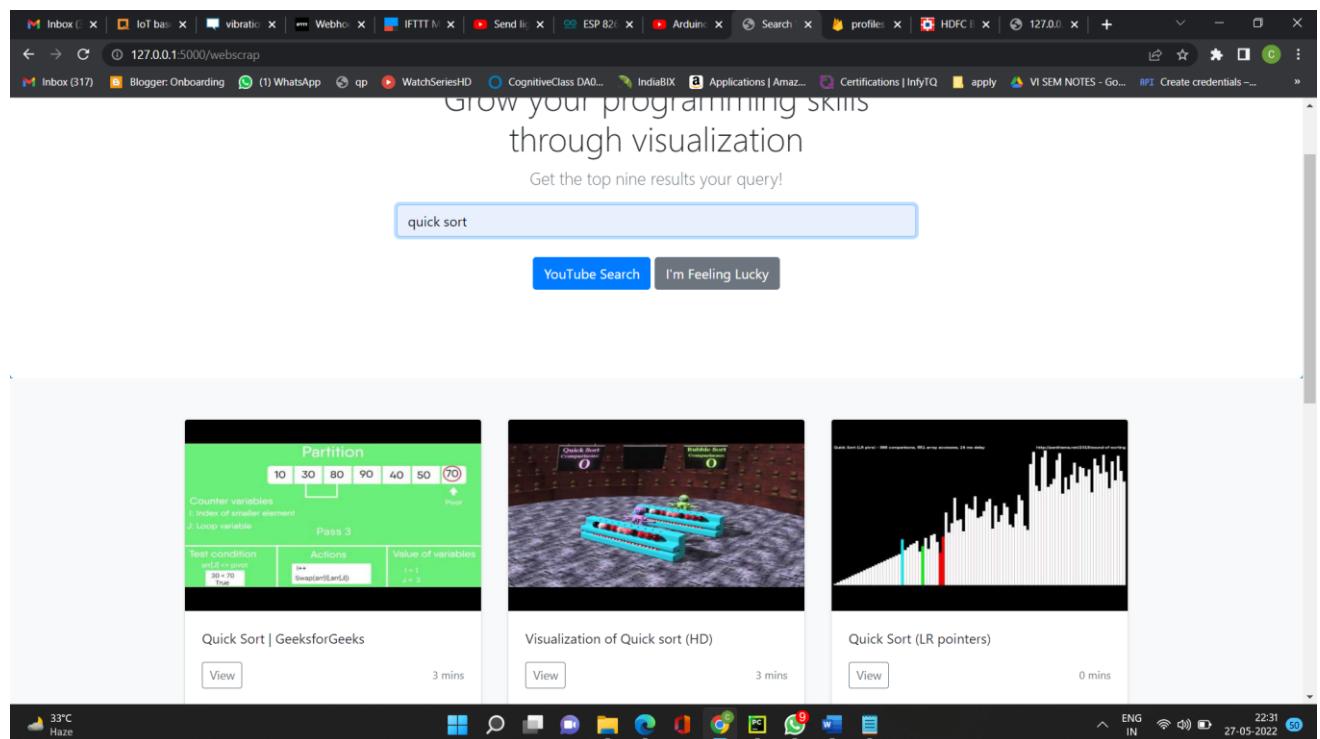


Because of this, the user does not need to switch between various websites regarding the company's info.

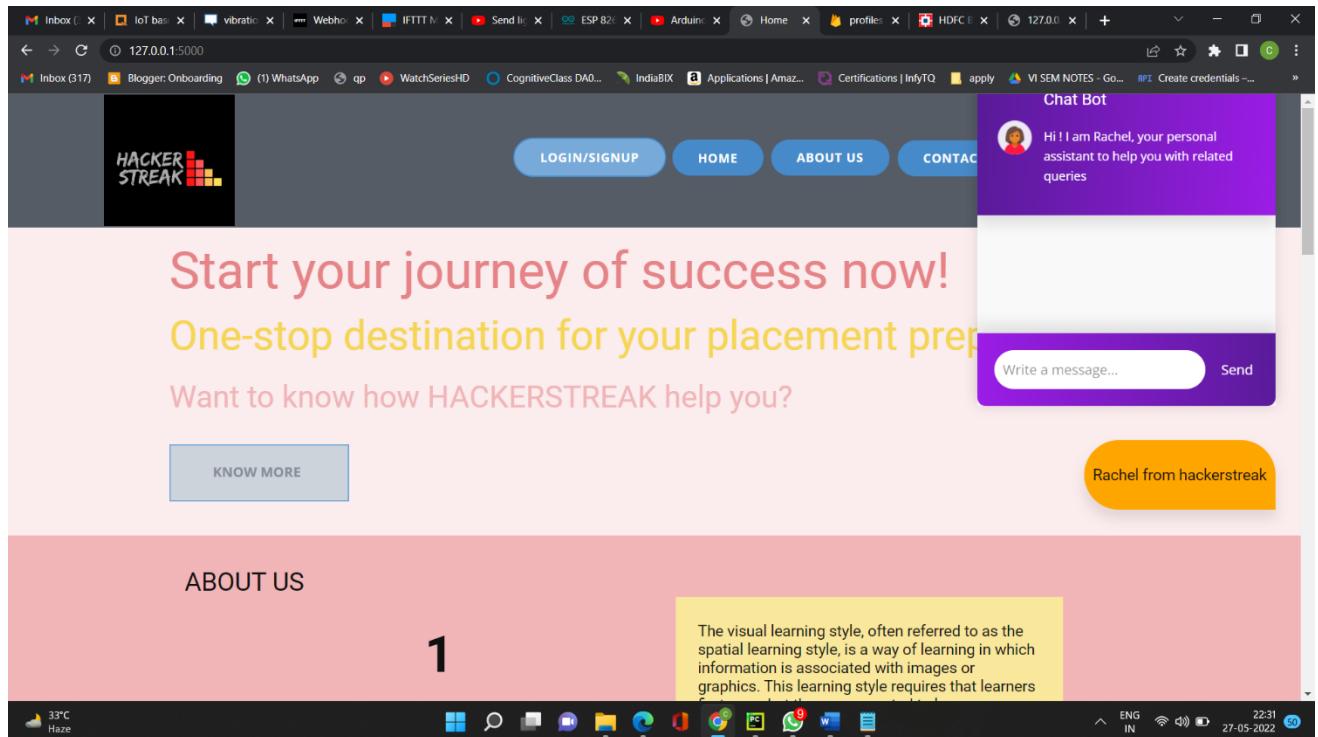
Provides the users with resume templates to create their resume exclusively, which a lot of e-learning platforms do not offer.



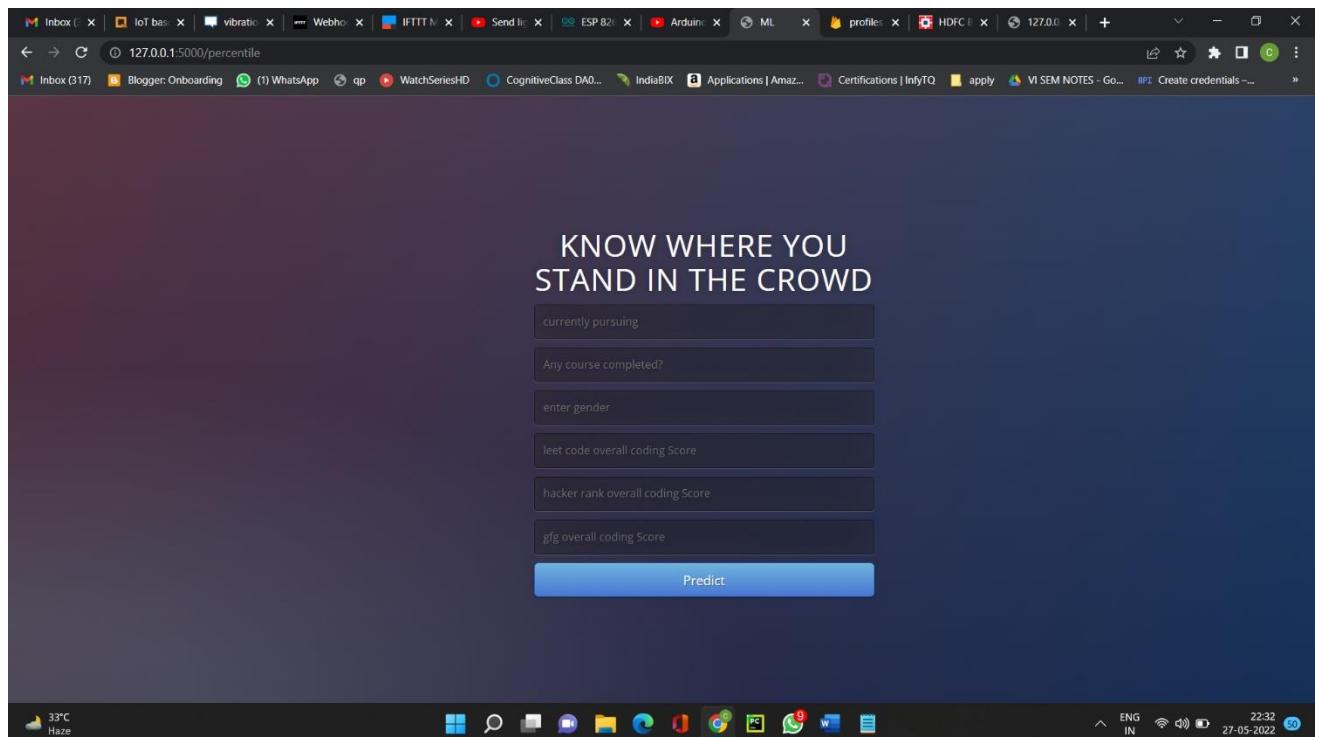
Rapidly redirecting the users to their desired courses.



Assists the users with a chatbot.



Analyses the performance of the user and calculates his/her percentile.



CHAPTER 7

7. CONCLUSION AND FUTURE WORK

Conclusion:

We believe that our website will be a life saviour for many engineering students. Our project is not based on the thought of eliminating or challenging the teachers but to ensure continuous comprehensive learning. Our website will be a one-stop place for students to learn new courses, have a preview of various companies and build their resumes.

Future work:

- 1) Language translator can be incorporated.
- 2) A company side module where a login for each company can be included.
- 3) Reviews/Feedback about the website from various users can be included.
- 4) History of the videos watched by the user can be made available.

CHAPTER 8

8. REFERENCES

- <https://www.w3schools.com/>
- <https://getbootstrap.com/>
- <https://log2base2.com>
- <https://mystudybuddy.co.in/>