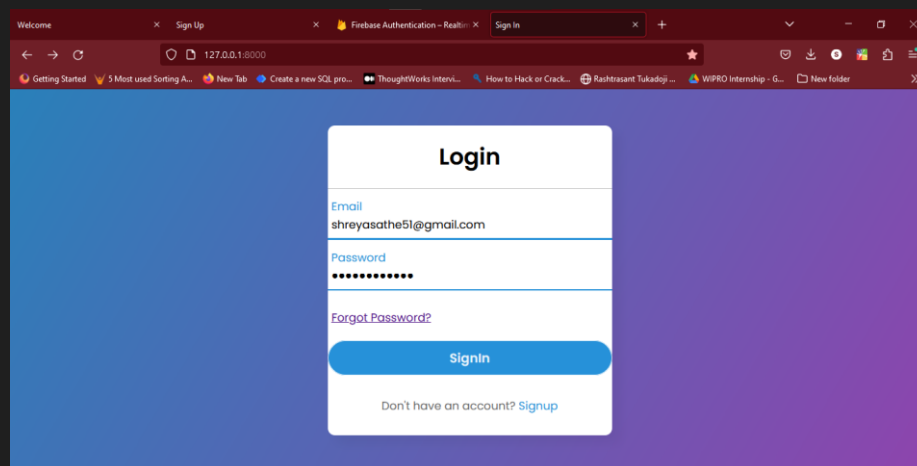


Django is a Python-based web framework that allows you to quickly create efficient web applications.. When we are building any website, we will need a set of components: how to handle user authentication [signing up(Register), signing in(login), signing out(logout)], a management panel for managing our website, how to upload files, etc. Django gives us ready-made components to use that easily.

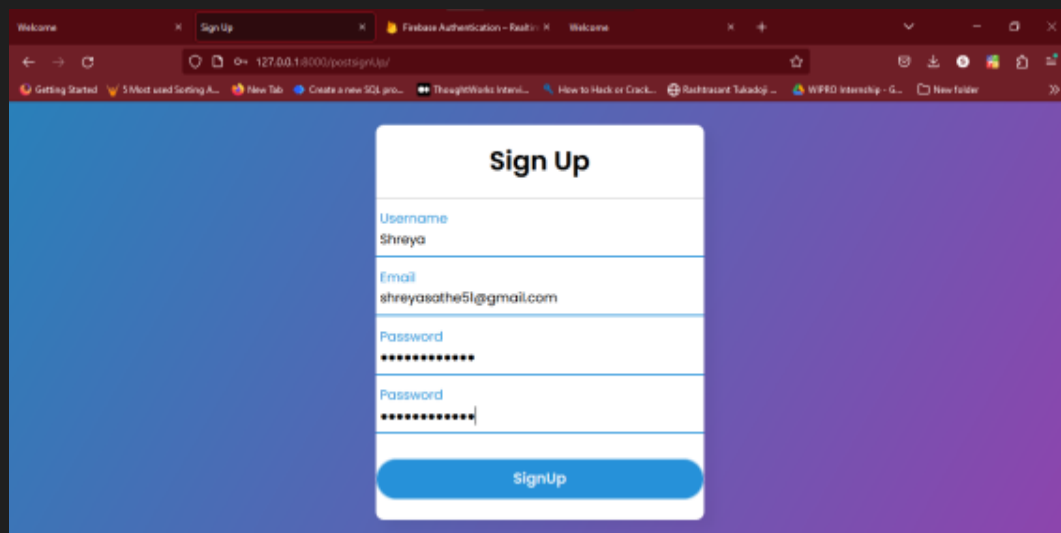
Key Features:

1. User Registration: Implement a user registration form where users can sign up with their email and password. Use Firebase Authentication's email/password authentication method to create user accountts.



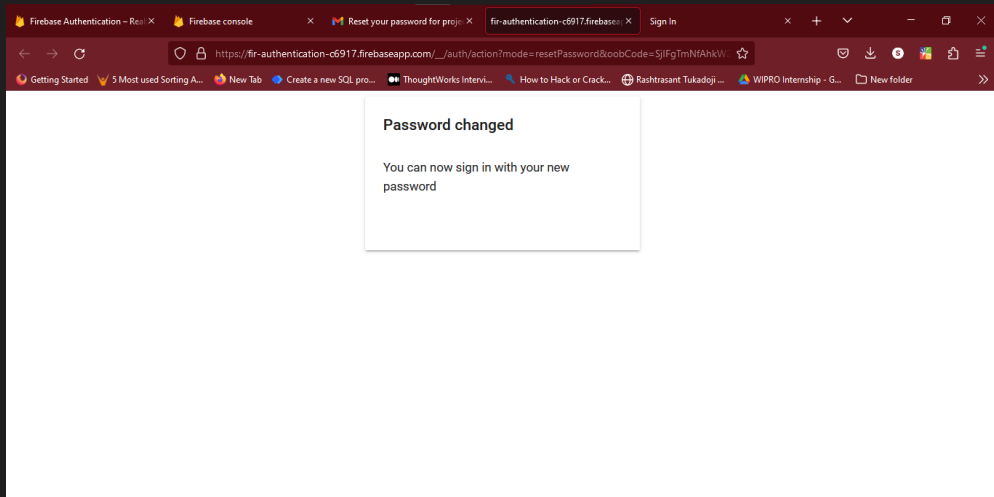
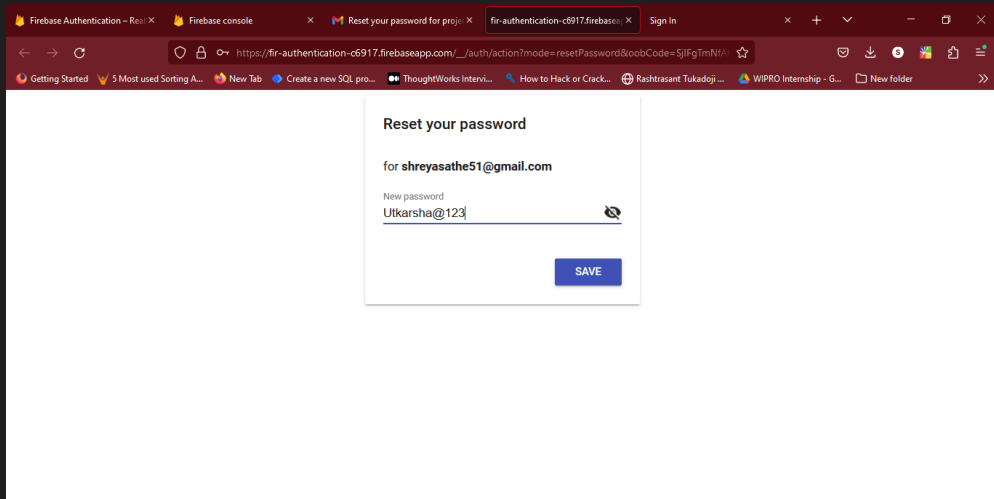
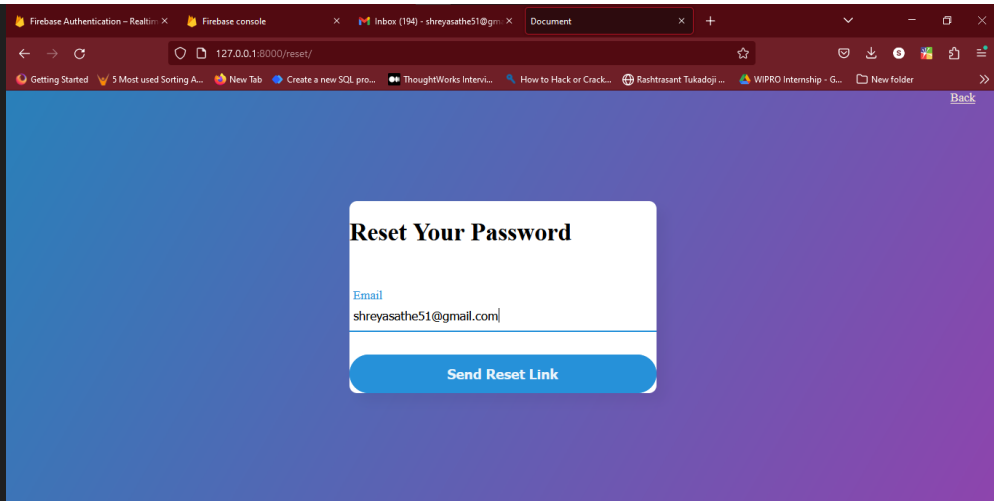
The screenshot shows a web browser window with a 'Login' form. The form is centered on a blue and purple gradient background. It contains the following elements: a title 'Login', an 'Email' input field with the value 'shreyasathe51@gmail.com', a 'Password' input field with masked characters, a 'Forgot Password?' link, a blue 'SignIn' button, and a link 'Don't have an account? Signup' at the bottom.

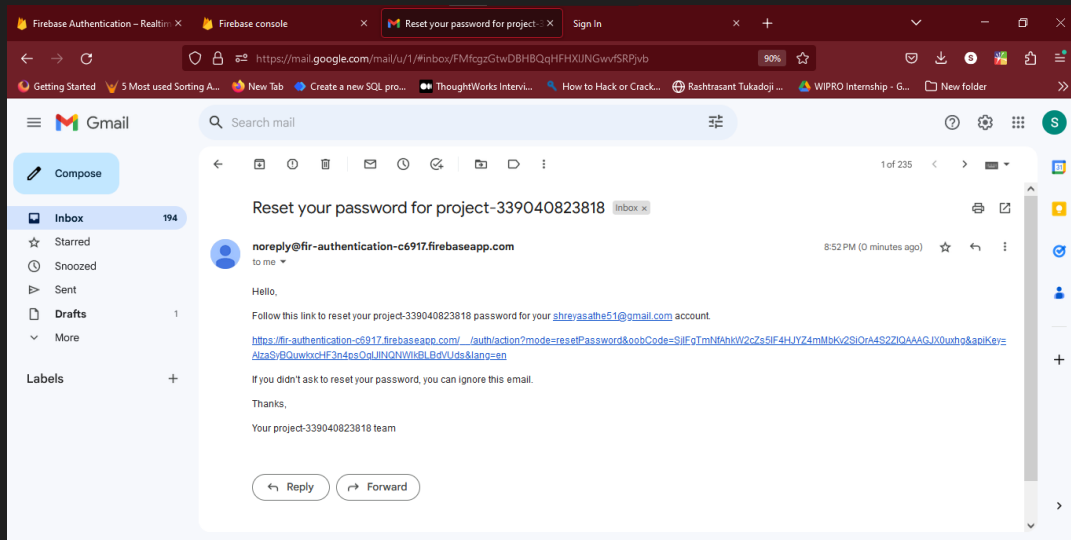
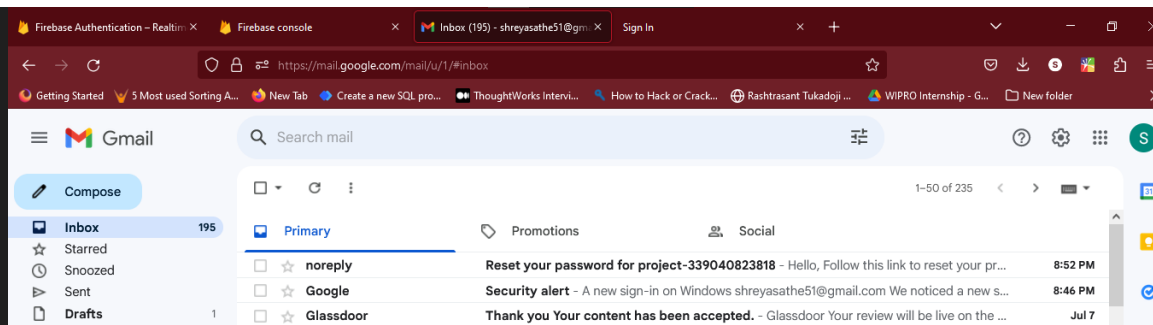
2. User Login: Create a login form where users can enter their credentials (email and password) to log into their accounts. Utilize Firebase Authentication's sign-in method to authenticate users.



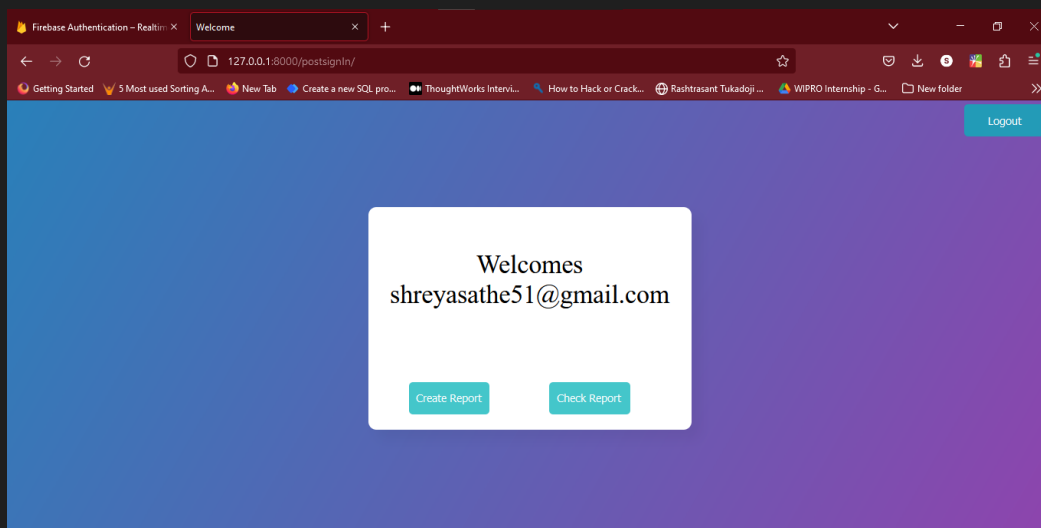
The screenshot shows a web browser window with a 'Sign Up' form. The form is centered on a blue and purple gradient background. It contains the following elements: a title 'Sign Up', a 'Username' input field with the value 'Shreya', an 'Email' input field with the value 'shreyasathe51@gmail.com', two 'Password' input fields with masked characters, and a blue 'SignUp' button at the bottom.

3. Password Reset: Add a password reset functionality that allows users to reset their passwords if they forget them. Use Firebase Authentication's password reset feature for this.

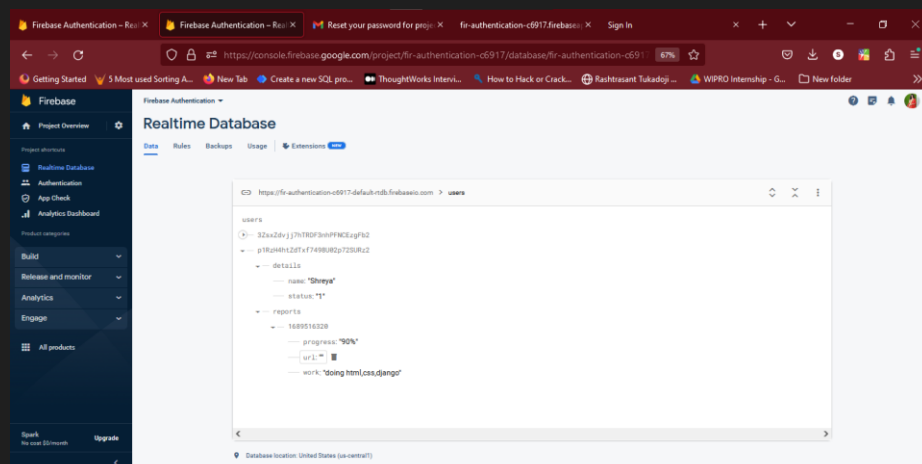
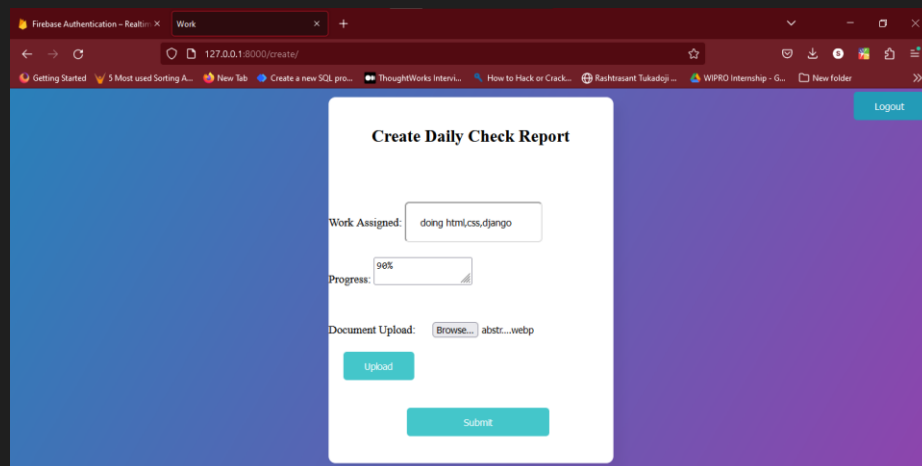
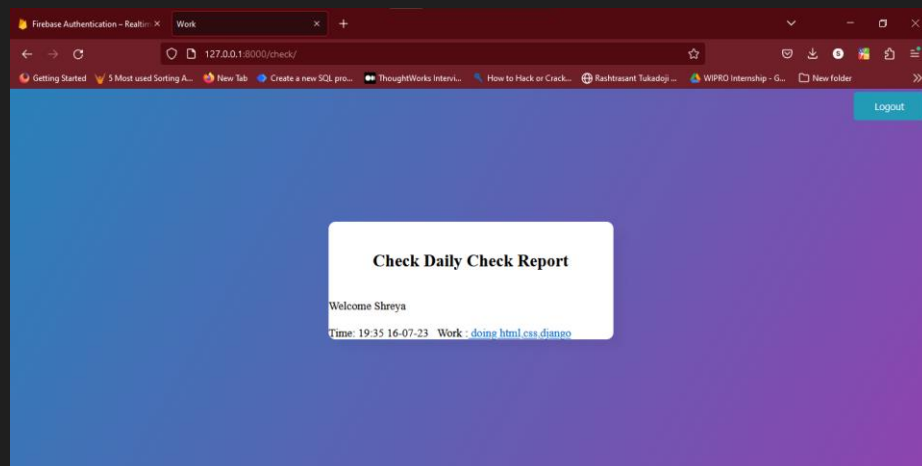




4. User Profile: Display the user's profile information (e.g., name, email) after they log in. Fetch and display this information from Firebase Authentication's user object.



5. User Authentication State: Implement logic to check if a user is authenticated or not. Display different content or redirect users based on their authentication status.



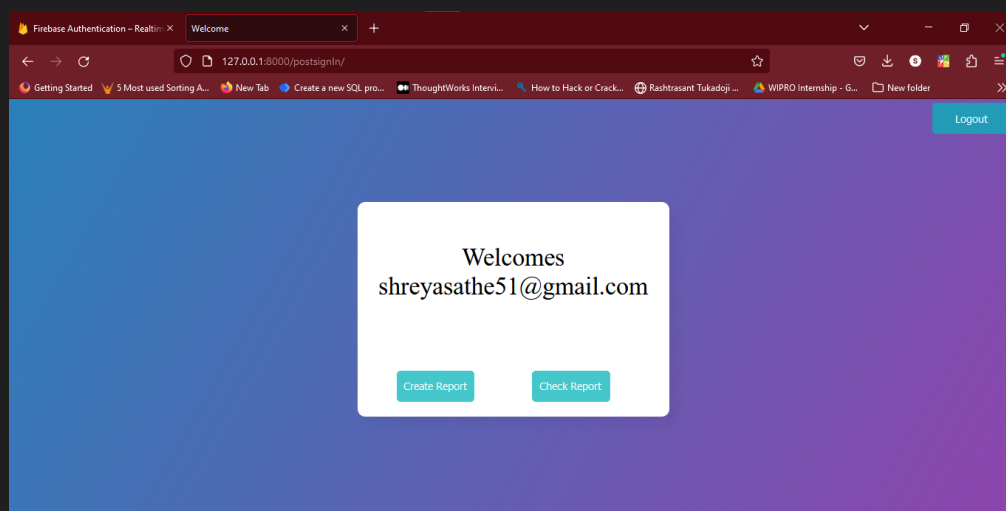
```
hel-master - Visual Studio Code

{} fir-authentication-c6917-default-rtdb-users-export.json X

C: > Users > utkar > Downloads > {} fir-authentication-c6917-default-rtdb-users-export.js

1 {}
2   "p1RzH4htZdTxf7498U02p72SURz2": {
3     "details": {
4       "name": "Shreya",
5       "status": "1"
6     },
7     "reports": {
8       "1689516320": {
9         "progress": "90%",
10        "url": "",
11        "work": "doing html,css,django"
12      }
13    }
14  }
15 }
```

6. User Sign Out: Provide an option for users to sign out of their accounts. Implement a sign-out feature using Firebase Authentication.



How to Run this Application:

1. In views.py We will be using our firebase credentials for authentication. In below image this is my credential of firebase. u can use ur own credential.

```
{ } fir-authentication-c6917-default-rtdb-users-export.json  README.docs.md  views.py X

cpanel > views.py > ...
1 from django.shortcuts import render
2 import pyrebase
3 from django.contrib import auth
4 config = {
5   "apiKey": "AIzaSyBQUwkcHF3n4psQlJlNQNM1k8LBdVUds",
6   "authDomain": "fir-authentication-c6917.firebaseio.com",
7   "databaseURL": "https://fir-authentication-c6917-default-rtdb.firebaseio.com",
8   "projectId": "fir-authentication-c6917",
9   "storageBucket": "fir-authentication-c6917.appspot.com",
10  "messagingSenderId": "339040823818",
11  "appId": "1:339040823818:web:41ec242ea7457cb96b0df3",
12  "measurementId": "G-H8GM61FN77"
13 }
14
15
16 firebase = pyrebase.initialize_app(config)
17 auth = firebase.auth()
18 database = firebase.database()
19
20 def signIn(request):
21     return render(request,"signIn.html")
22
```

2. Go to cmd->file location->type python manage.py runserver->copy localhost  
paste it on any web browser.