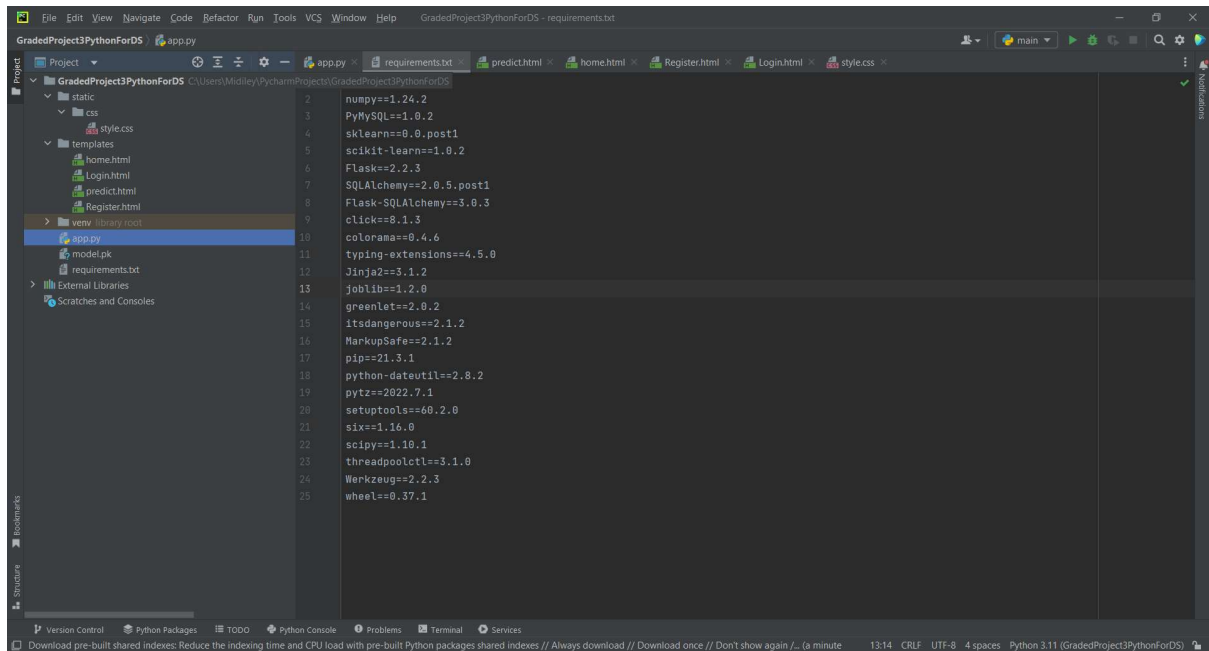


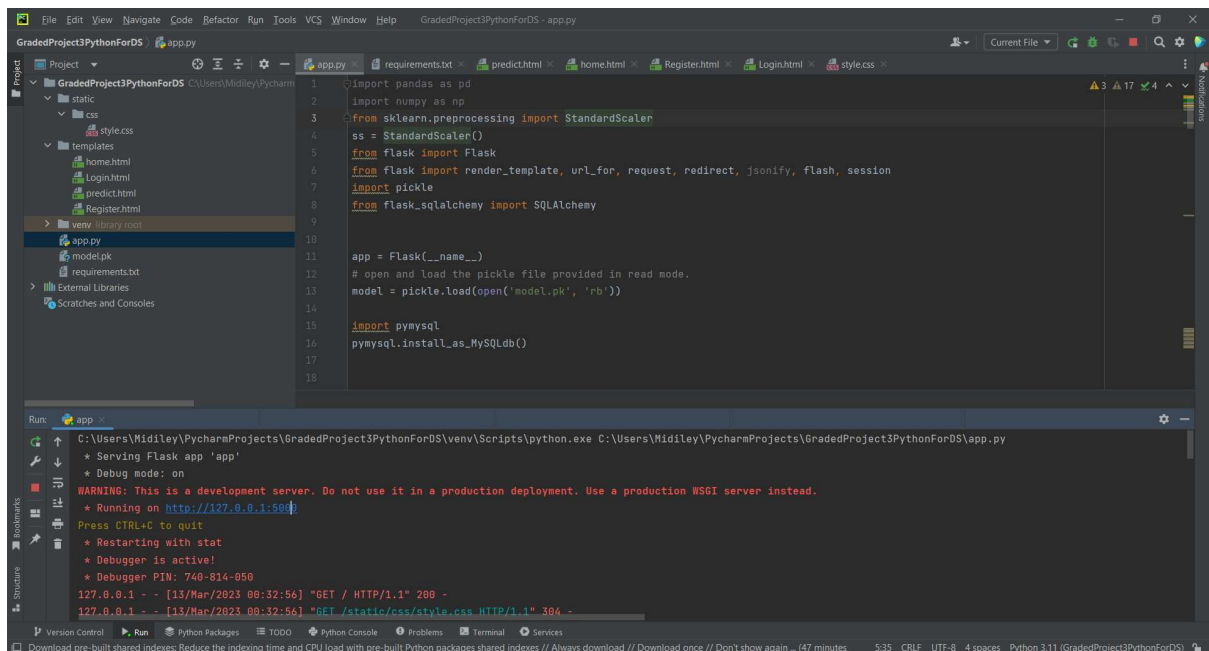
Graded Project 3 – Python for DS

Screenshots of Solution

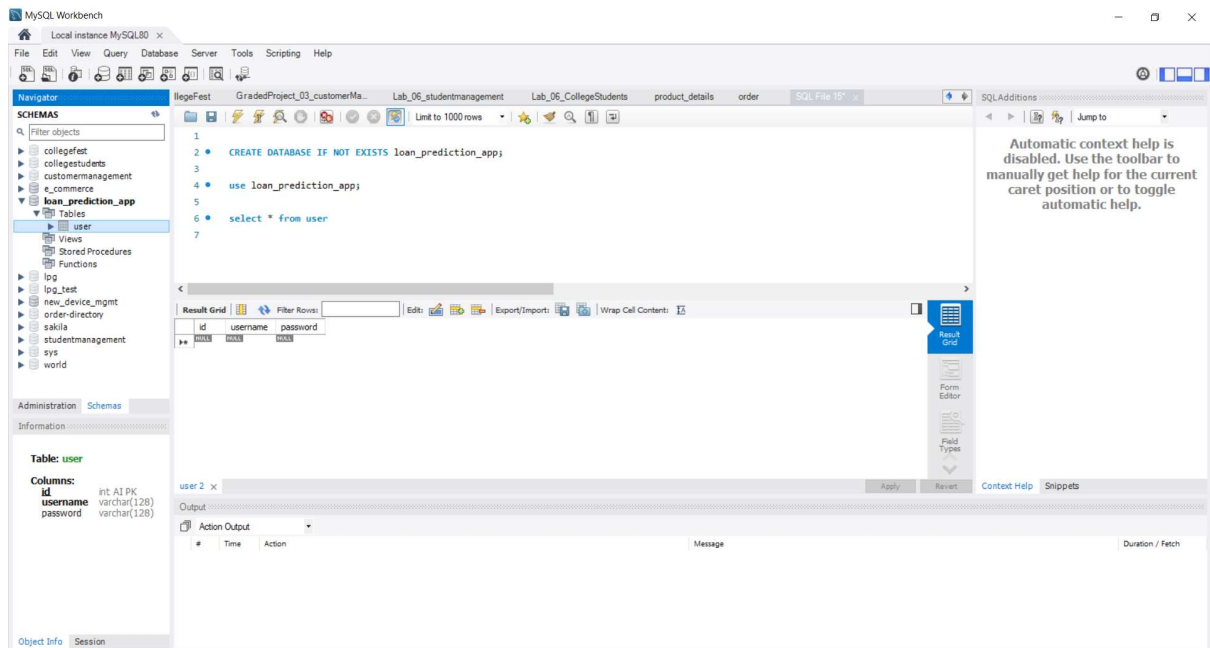
Project Structure in PyCharm:



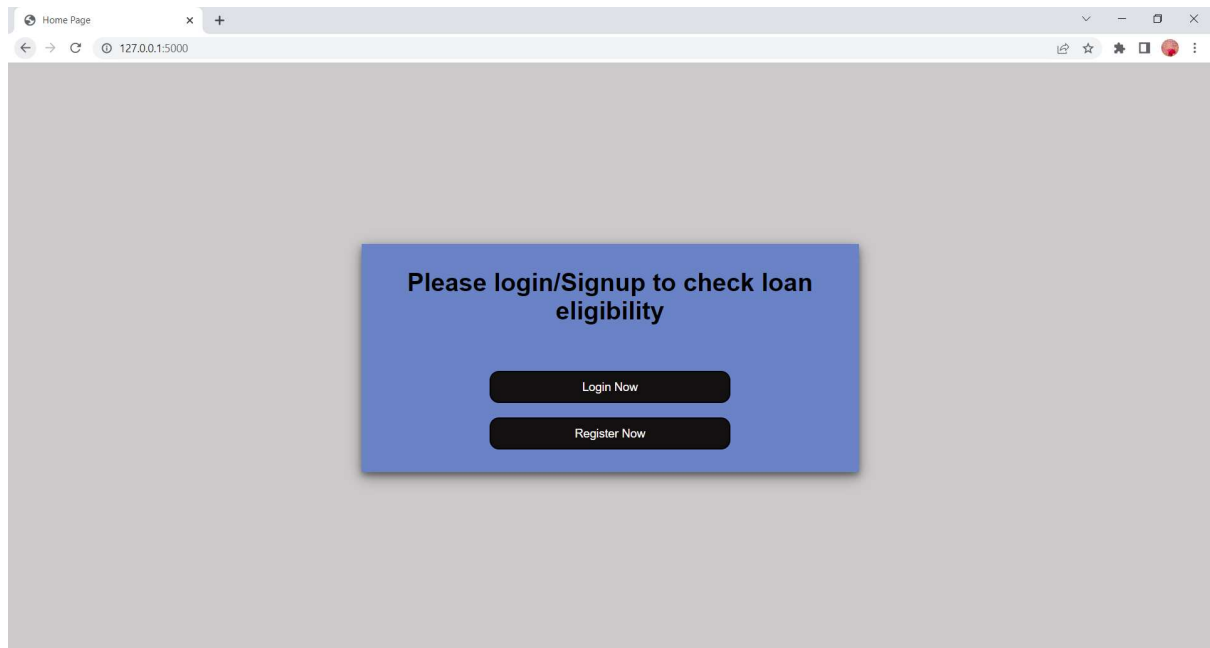
Python Web Application started: (server running on <http://127.0.0.1:5000/>)



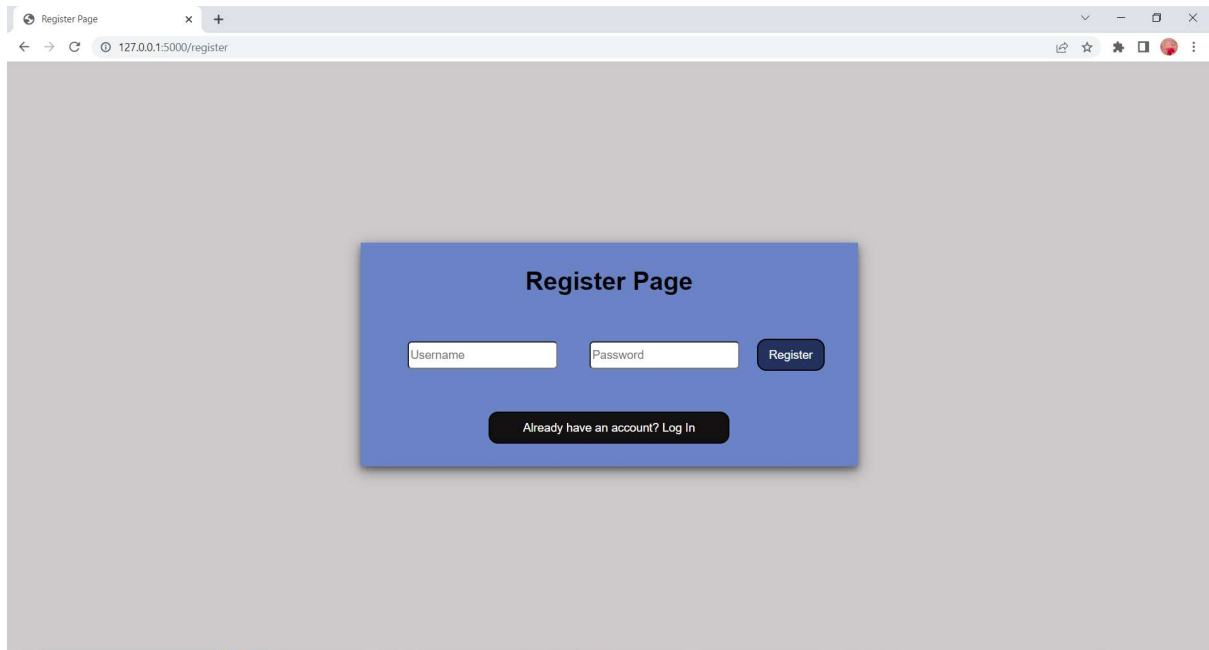
MySQL Workbench with 'user' table: (table gets created when the application starts running)



Home Page:

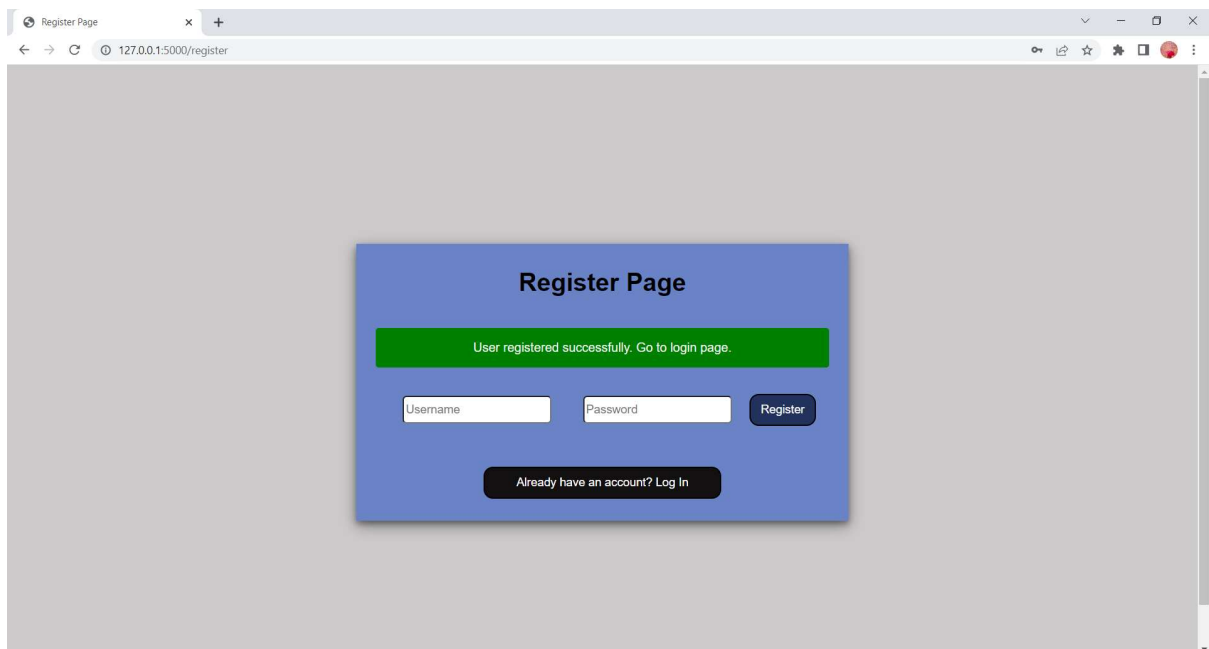


Register Page:



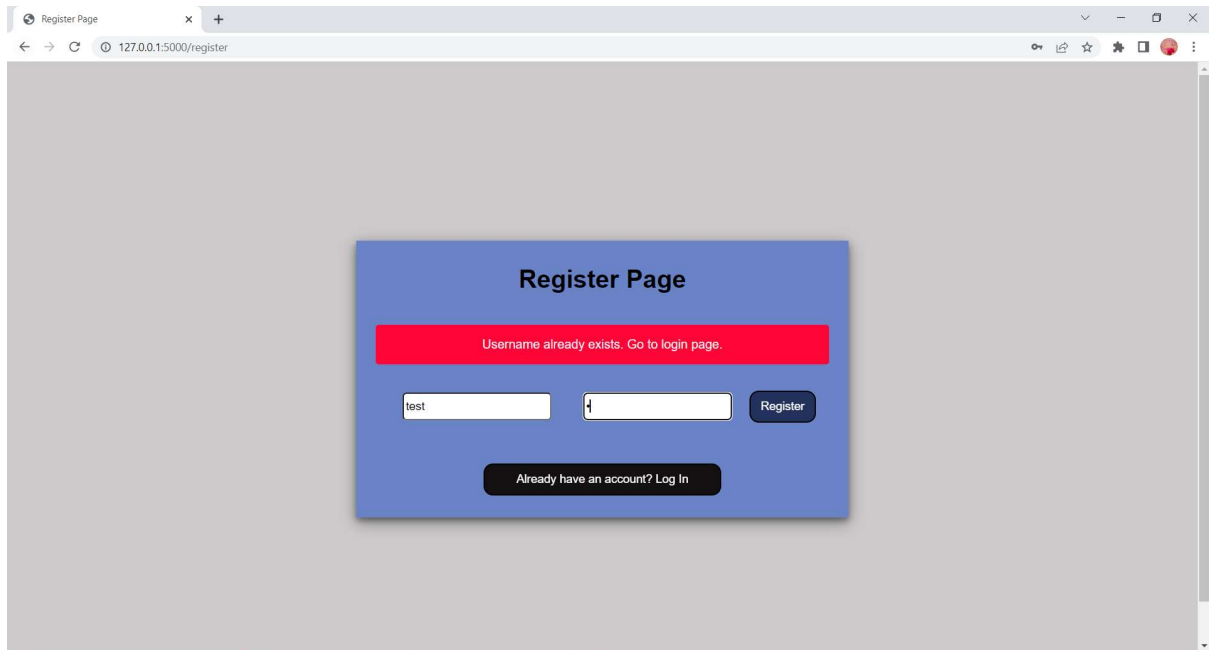
A screenshot of a web browser displaying a registration page. The browser's address bar shows the URL "127.0.0.1:5000/register". The page features a blue rectangular form with the title "Register Page" at the top. Inside the form, there are two input fields labeled "Username" and "Password", followed by a dark blue "Register" button. Below these fields is a dark blue button with the text "Already have an account? Log In".

Register Page – After successfully registering a new user : test

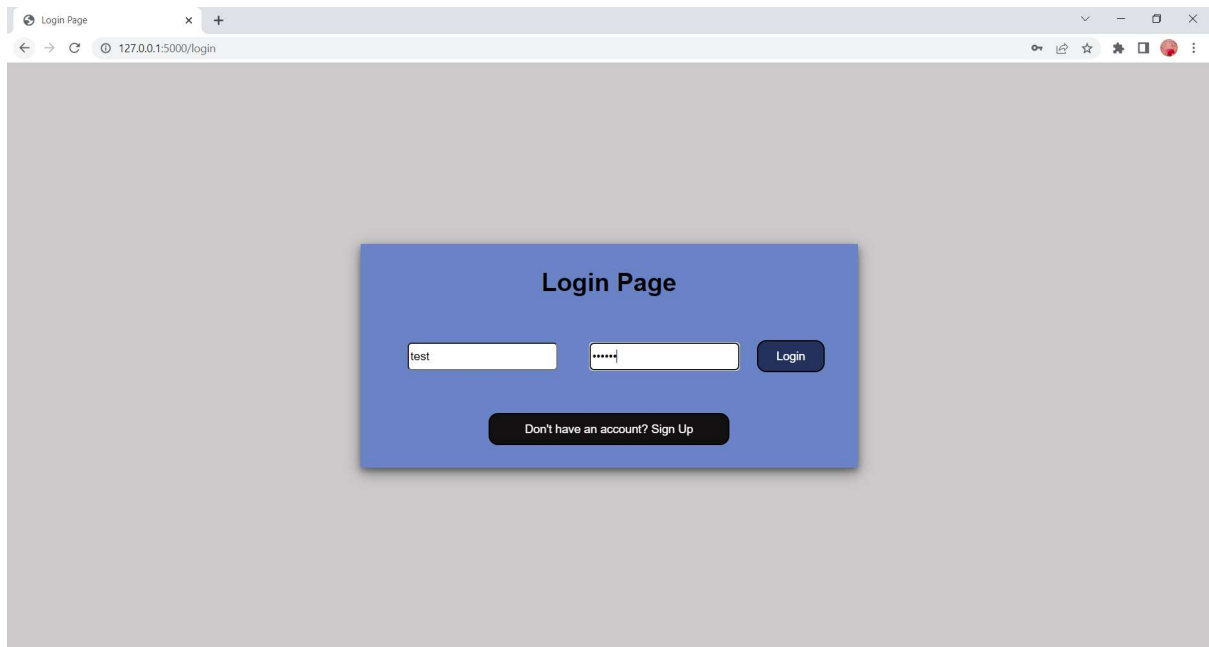


A screenshot of the same registration page in a web browser, but after a successful registration. The browser's address bar still shows "127.0.0.1:5000/register". A green message box at the top of the blue form reads "User registered successfully. Go to login page." Below this message, the "Username" and "Password" input fields and the "Register" button are still present. At the bottom of the form, the "Already have an account? Log In" button is also visible.

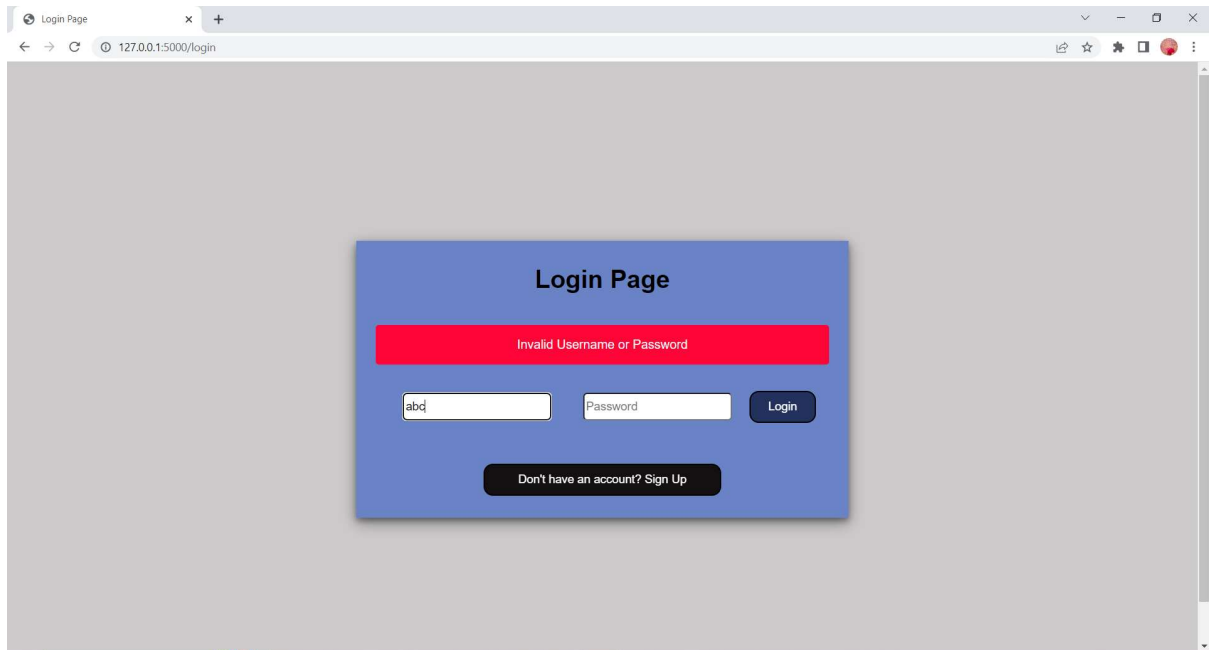
Register Page – When trying to create another user with same username : test



Login Page – Logging into registered user : test



Login Page – While trying to login with invalid credentials:



Prediction Page – After login and prompting to enter details: (zoomed out view)

The screenshot shows a web browser window with the address bar displaying "127.0.0.1:5000/enter_details". The page title is "Loan Prediction Page". The main content area features a green header with the text "House Loan Eligibility Prediction". Below the header, there is a form titled "Please enter the details in order to check your house loan eligibility". The form contains the following fields and options:

Field	Value
Gender	Male
Married	No
Dependents	Dependents
Education	Graduate
Self Employed	No
Applicant Income (\$)	Applicant Income
Coapplicant Income (\$)	Coapplicant Income
Loan Amount in Thousands (\$)	Loan Amount in Thousands
Loan Amount Term (in months)	Loan Amount Term
Credit History	No
Property Area	Rural

At the bottom of the form, there is a "Submit" button. Below the "Submit" button, there is a link that says "Press here to Logout".

Prediction Page – Entering prediction dependent values: (zoomed out view)

Loan Prediction Page

127.0.0.1:5000/enter_details

House Loan Eligibility Prediction

Please enter the details in order to check your house loan eligibility

Gender	Male
Married	No
Dependents	0
Education	Graduate
Self Employed	No
Applicant Income (\$)	2000
Coapplicant Income (\$)	0
Loan Amount in Thousands (\$)	150
Loan Amount Term (in months)	360
Credit History	Yes
Property Area	Urban

Submit

Press here to Logout

Prediction Page – Predicted result for previous inputs: (zoomed out view)

Loan Prediction Page

127.0.0.1:5000/predict

House Loan Eligibility Prediction

Congrats!! You are eligible for the loan.

Please enter the details in order to check your house loan eligibility

Gender	Male
Married	No
Dependents	Dependents
Education	Graduate
Self Employed	No
Applicant Income (\$)	Applicant Income
Coapplicant Income (\$)	Coapplicant Income
Loan Amount in Thousands (\$)	Loan Amount in Thousands
Loan Amount Term (in months)	Loan Amount Term
Credit History	No
Property Area	Rural

Submit

Prediction Page – Predicted result for other new set of inputs: (zoomed out view)

House Loan Eligibility Prediction

Sorry, you are not eligible for the loan.

Please enter the details in order to check your house loan eligibility

Gender	Male
Married	Yes
Dependents	5
Education	Not Graduate
Self Employed	Yes
Applicant Income (\$)	100
Coapplicant Income (\$)	0
Loan Amount in Thousands (\$)	150
Loan Amount Term (in months)	10
Credit History	No
Property Area	Semiarban

Submit

After Logout – Redirect to Login page: Login restricted Prediction page

Login Page

Username Password Login

Don't have an account? Sign Up

MySQL Workbench – After new users registered from the app: (in Register page)

Database: loan_prediction_app

Table: user

The screenshot displays the MySQL Workbench interface. On the left, the 'SCHEMAS' pane shows a tree view of databases, with 'loan_prediction_app' selected and expanded to show the 'user' table. The main editor window contains a SQL query:

```
1 CREATE DATABASE IF NOT EXISTS loan_prediction_app;
2
3
4 use loan_prediction_app;
5
6 select * from user
7
```

 Below the query, the 'Result Grid' shows the contents of the 'user' table:

	id	username	password
1	test	abc123	
2	Maidly	admin	

On the right, the 'Table: user' information pane shows the table's columns: **id** (int, AI, PK), **username** (varchar(128)), and **password** (varchar(128)). The bottom pane shows the 'Output' tab with an 'Action Output' section.