

Figure 1 : Activate Virtual Environment & Run the main.py in cmd.

```
(venv) C:\Users\30207707\Downloads\Loan_Approval\Loan_Flaskapp\venv\Scripts>cd...
(venv) C:\Users\30207707\Downloads\Loan_Approval\Loan_Flaskapp\venv\Scripts>cd/
(venv) C:\>cd "C:\Users\30207707\Downloads\Loan_Approval"
(venv) C:\Users\30207707\Downloads\Loan_Approval>python main.py
The system cannot find the path specified.
Database already exists
* Serving Flask app 'Loan_Flaskapp'
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
* Restarting with stat
The system cannot find the path specified.
Database already exists
* Debugger is active!
* Debugger PIN: 727-040-121
* Detected change in 'C:\Users\30207707\Downloads\Loan_Approval\Loan_Flaskapp\auth.py', reloading
* Restarting with stat
The system cannot find the path specified.
Database already exists
* Debugger is active!
* Debugger PIN: 727-040-121
```

Figure 2: Login Page (1.url http://127.0.0.1:5000 is accessed on browser. 2. cmd prompt shows connection success.)

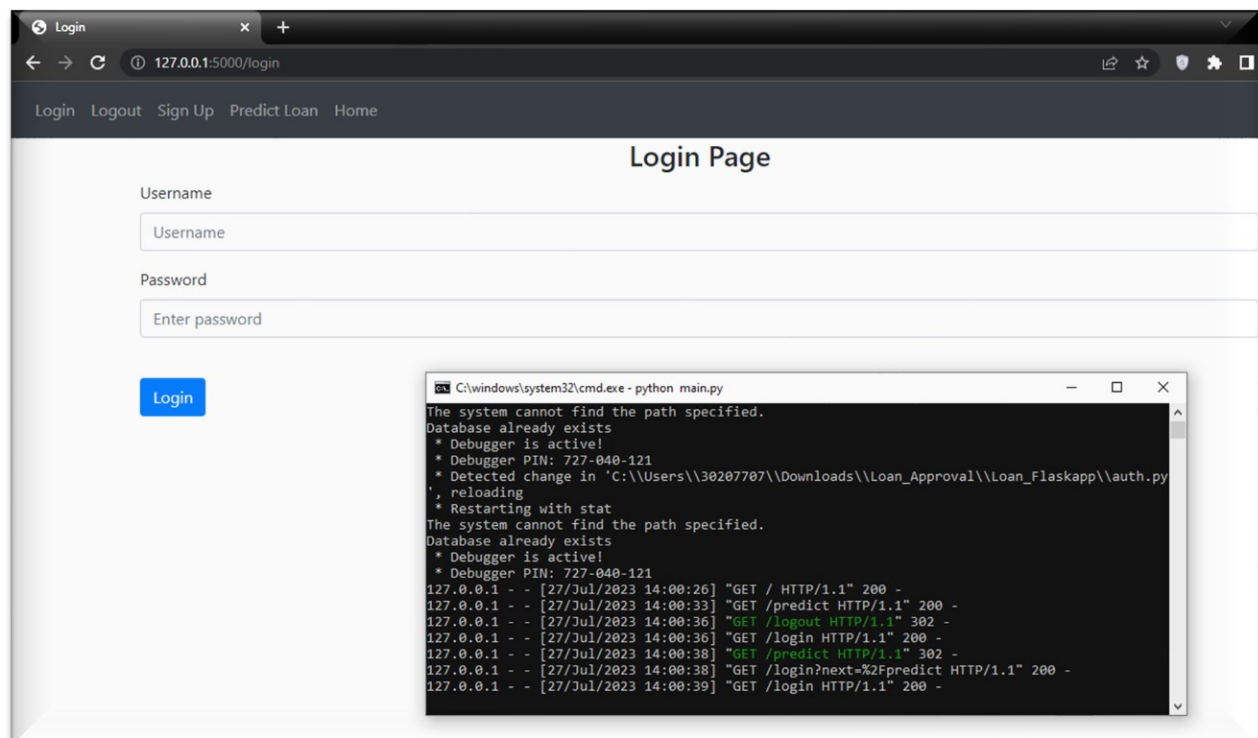


Figure 3: Registration Page

The screenshot shows a web browser window with the address bar at 127.0.0.1:5000/register. The page has a navigation bar with links: Login, Logout, Sign Up, Predict Loan, and Home. The main heading is "Register". Below it are four input fields: "First Name" (containing "Benson"), "Username" (containing "ben123"), "Password" (masked with dots), and "Confirm Password" (masked with dots). A blue "Submit" button is at the bottom left. Overlaid on the right is a terminal window titled "C:\windows\system32\cmd.exe - python main.py". The terminal output shows messages about a debugger being active, a detected change in a file, and a restart. It also displays a log of HTTP requests from 127.0.0.1, including GET requests to /predict, /logout, /login, /predict, /login?next=%2Fpredict, /login, and /register, all returning 200 status codes.

Figure 4(a): MySQL database with table USER description.

The screenshot shows a MySQL database interface with a SQL editor at the top containing two queries: `SELECT * FROM flaskdb.user;` and `desc flaskdb.user;`. Below the editor is a "Result Grid" showing the table structure. The table has four columns: id, first_name, username, and password. The id column is an integer, primary key, and auto-increment. The other three columns are varchar(150) and nullable.

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
first_name	varchar(150)	YES		NULL	
username	varchar(150)	YES	UNI	NULL	
password	varchar(150)	YES		NULL	

Figure 4(b): User table with available user.

cancelled_bills SQL File 4* user

Limit to 1000 rows

```

1 • SELECT * FROM flaskdb.user;
2 • desc flaskdb.user;
3 • select * from flaskdb.user;

```

Result Grid

id	first_name	username	password
1	Justine	justine523	sha256\$V0K4HcVOfecJKIQo\$3631bf5d9f393d3...
NULL	NULL	NULL	NULL

Figure 4(c): New user add after Registration.

cancelled_bills SQL File 4* user

Limit to 1000 rows

```

1 • SELECT * FROM flaskdb.user;
2 • desc flaskdb.user;
3 • select * from flaskdb.user;

```

Result Grid

id	first_name	username	password
1	Justine	justine523	sha256\$V0K4HcVOfecJKIQo\$3631bf5d9f393d3...
2	Benson	ben123	sha256\$qa7xGkPTD7pDtmxo\$eeae6e7e012788...
NULL	NULL	NULL	NULL

Figure 4(d): After Registration.

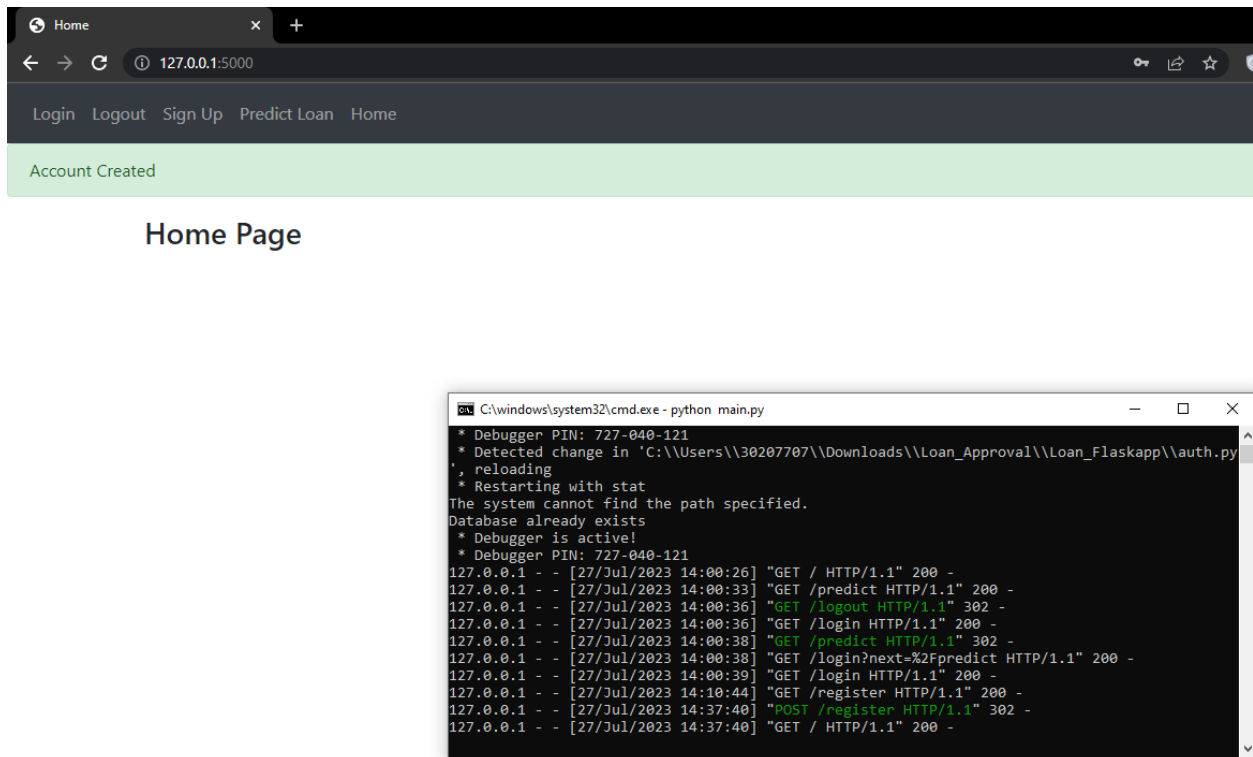
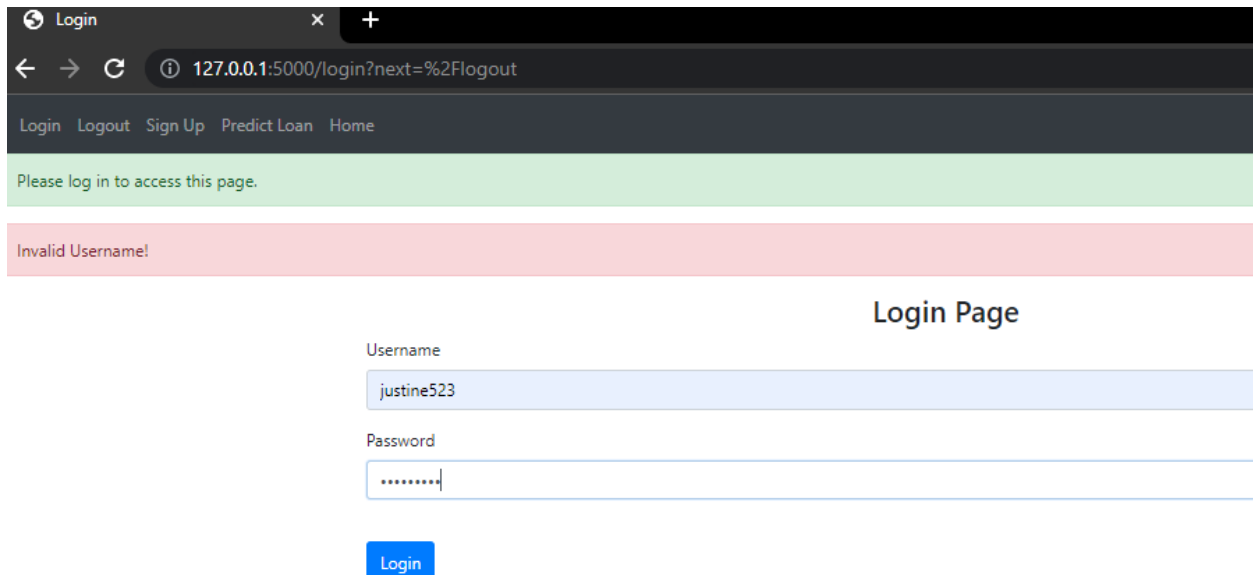


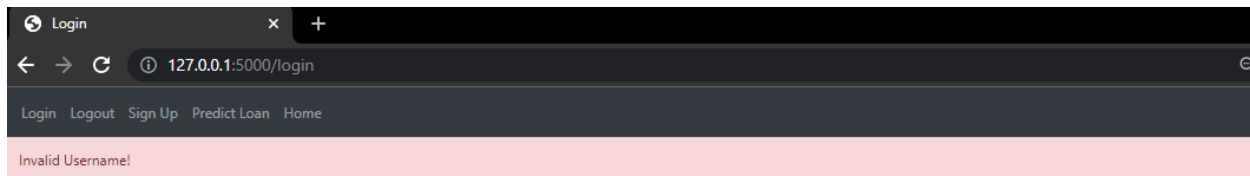
Figure 5: Login and Logout Page





Home Page

```
C:\windows\system32\cmd.exe - python main.py
127.0.0.1 - - [27/Jul/2023 14:00:36] "GET /logout HTTP/1.1" 302 -
127.0.0.1 - - [27/Jul/2023 14:00:36] "GET /login HTTP/1.1" 200 -
127.0.0.1 - - [27/Jul/2023 14:00:38] "GET /predict HTTP/1.1" 302 -
127.0.0.1 - - [27/Jul/2023 14:00:38] "GET /login?next=%2Fpredict HTTP/1.1" 200 -
127.0.0.1 - - [27/Jul/2023 14:00:39] "GET /login HTTP/1.1" 200 -
127.0.0.1 - - [27/Jul/2023 14:10:44] "GET /register HTTP/1.1" 200 -
127.0.0.1 - - [27/Jul/2023 14:37:40] "POST /register HTTP/1.1" 302 -
127.0.0.1 - - [27/Jul/2023 14:37:40] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [27/Jul/2023 14:40:49] "GET /login HTTP/1.1" 200 -
127.0.0.1 - - [27/Jul/2023 14:40:51] "GET /predict HTTP/1.1" 200 -
127.0.0.1 - - [27/Jul/2023 14:40:57] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [27/Jul/2023 14:41:00] "GET /predict HTTP/1.1" 200 -
127.0.0.1 - - [27/Jul/2023 14:45:01] "GET /logout HTTP/1.1" 302 -
127.0.0.1 - - [27/Jul/2023 14:45:01] "GET /login HTTP/1.1" 200 -
127.0.0.1 - - [27/Jul/2023 14:45:06] "GET /logout HTTP/1.1" 302 -
127.0.0.1 - - [27/Jul/2023 14:45:06] "GET /login?next=%2Flogout HTTP/1.1" 200 -
127.0.0.1 - - [27/Jul/2023 14:46:33] "POST /login?next=%2Flogout HTTP/1.1" 302 -
127.0.0.1 - - [27/Jul/2023 14:46:33] "GET / HTTP/1.1" 200 -
```



Login Page

Username

Password

Login

```
C:\windows\system32\cmd.exe - python main.py
127.0.0.1 - - [27/Jul/2023 14:45:06] "GET /login?next=%2Flogout HTTP/1.1" 200 -
127.0.0.1 - - [27/Jul/2023 14:46:33] "POST /login?next=%2Flogout HTTP/1.1" 302 -
127.0.0.1 - - [27/Jul/2023 14:46:33] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [27/Jul/2023 14:48:05] "GET /logout HTTP/1.1" 302 -
127.0.0.1 - - [27/Jul/2023 14:48:18] "GET /login HTTP/1.1" 200 -
```

Figure 6: Prediction Page with result

Predict

127.0.0.1:5000/predict

Predict Loan Status

Gender

Male

Married

Yes

Dependents

1

Education

graduate

Self-Employed

Yes

Application Income (\$)

200

Coapplicant Income (\$)

100

Loan Amt in Thousands (\$)

500

Loan Amt Term (months)

36

Credit History

Yes

Property Area

rural

Submit

Predicted value is [1]