

Report

20221494 박찬솔

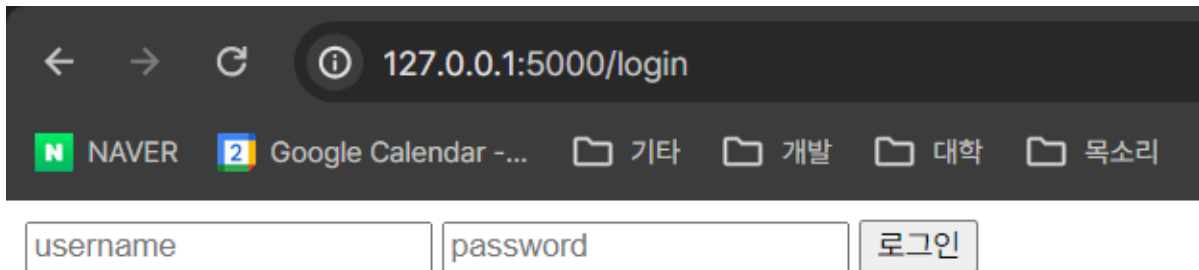
Requirements

The program uses `flask` and `bs4` library, so extra installation process using pip required.

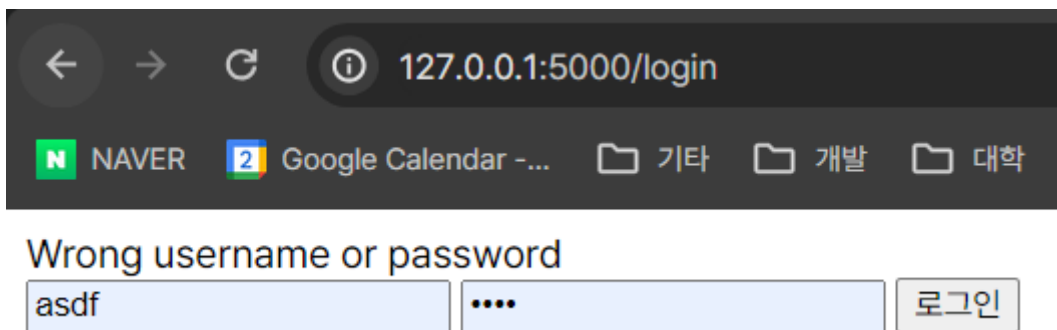
```
pip3 install flask beautifulsoup4
```

Screenshot

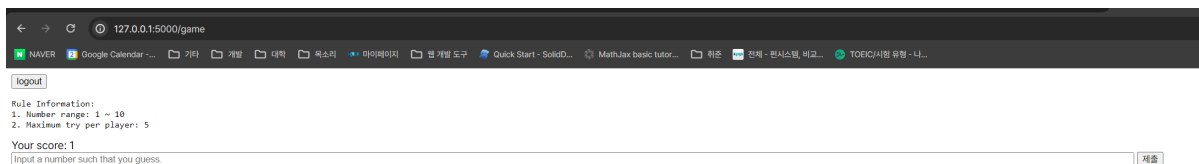
- Login (id= `asdf` , pw= `asdf`)



- Login (wrong username or password)



- Game Page (redirects to game page automatically after successful login)



- Guess small

logout

Rule Information:

1. Number range: 1 ~ 10
2. Maximum try per player: 5

Hint: You guessed too small!

Your score: 1

Input a number such that you guess.

- Guess big

logout

Rule Information:

1. Number range: 1 ~ 10
2. Maximum try per player: 5

Hint: You guessed too high!

Your score: 1

Input a number such that you guess.

- Use all given attempts

logout

Rule Information:

1. Number range: 1 ~ 10
2. Maximum try per player: 5

Sorry, you've used all your attempts, we start new round!

Your score: 1

Input a number such that you guess.

- Correct guess (with increased score)

logout

Rule Information:

1. Number range: 1 ~ 10
2. Maximum try per player: 5

Congratulations, you did it, start new round

Your score: 2

Input a number such that you guess.

- CSRF Apply (Network Inspector)

| Name | X | Headers | Payload | Preview | Response | >> |
|------------------------|---|---------|--|-------------|------------------|----|
| game | | | ▼ Form Data | view source | view URL-encoded | |
| content.ts-14921b37.js | | | value: 1 | | | |
| hook-exec.js | | | csrf: 3e930c3a-f28b-4404-866d-e941bbb895db | | | |
| bridge-03dfb3bb.js | | | | | | |

- DB (authentication log)

| game_db.py | | | | app.py | | | | console | | | | LOG | | | |
|------------|------|--|--|------------------------------|------|--------|--|----------|-------|--|--|-----|--|---|--|
| 6 rows | | | | | | | | Tx: Auto | | | | DDL | | | |
| WHERE | | | | ORDER BY | | | | | | | | | | | |
| | id | | | | log | | | | logid | | | | | | |
| 1 | asdf | | | [2024-06-02 15:03:08.480637] | asdf | logout | | | | | | | | 1 | |
| 2 | asdf | | | [2024-06-02 15:03:09.670477] | asdf | login | | | | | | | | 2 | |
| 3 | asdf | | | [2024-06-02 15:39:41.465784] | asdf | logout | | | | | | | | 3 | |
| 4 | asdf | | | [2024-06-02 15:40:16.052979] | asdf | login | | | | | | | | 4 | |
| 5 | asdf | | | [2024-06-02 15:40:19.896540] | asdf | logout | | | | | | | | 5 | |
| 6 | asdf | | | [2024-06-02 15:40:35.201341] | asdf | login | | | | | | | | 6 | |

- DB (user score)

| | | | | | | | | | | | | | | | |
|-------|------|--|--|----------|-------|--|--|----------|--|--|--|-----|--|--|--|
| 1 row | | | | | | | | Tx: Auto | | | | DDL | | | |
| WHERE | | | | ORDER BY | | | | | | | | | | | |
| | id | | | | score | | | | | | | | | | |
| 1 | asdf | | | | 2 | | | | | | | | | | |

- Scrapper (Crawl "Graph" Page)

```
Run
C:\Users\Chansol\AppData\Local\Programs\Python\Python310\python.exe C:\Users\Chansol\Desktop\ssu\network-2024\hw04\scraper.py
Wikipedia URL: https://en.wikipedia.org/wiki/Graph_(discrete_mathematics)
Scraped Output:
Title: Graph (discrete mathematics)
Description: In discrete mathematics, and more specifically in graph theory, a graph is a structure amounting to a set of objects in which some pairs of the objects are in some sense "related". The objects are represented by abstractions called vertices (also called
Process finished with exit code 0
```

- Scraper (Crawl any documentation written "Korean")

```
Run
C:\Users\Chansol\AppData\Local\Programs\Python\Python310\python.exe C:\Users\Chansol\Desktop\ssu\network-2024\hw04\scraper.py
Wikipedia URL: https://ko.wikipedia.org/wiki/%EC%A0%70%B0%BE%B9%90%BE%B9%A0%44_%EC%A0%70%B0%BE%B9%90%BE%B9%A0%44_%EC%A0%70%B0%BE%B9%90%BE%B9%A0%44
Scraped Output:
Title: 그래프 (그래프 이론)
Description: 수학에서 그래프(영어: graph, 문화어: 그라프)는 일련의 꼭짓점들과 그 사이를 잇는 변들로 구성된 조합론적 구조이다. 그래프를 연구하는 수학의 분야를 그래프 이론이라고 한다. "그래프"라는 용어는 1878년 J. J. 실베스터에 의해 처음 사용되었다.[1][2]
Process finished with exit code 0
```

- Input Invalid URL

```
Run
C:\Users\Chansol\AppData\Local\Programs\Python\Python310\python.exe C:\Users\Chansol\Desktop\ssu\network-2024\hw04\scraper.py
Wikipedia URL: asdf
Invalid url
Wikipedia URL: https://en.wikipedia.org/wiki/Asdfasdfasdf
Invalid url
Wikipedia URL:
```

- Result CSV (parse to table)

| C1 | C2 |
|--------------------------------|--|
| 1 title | description |
| 2 Graph (discrete mathematics) | In discrete mathematics, and more specifically in graph t. |
| 3 그래프 (그래프 이론) | 수학에서 그래프(영어: graph, 문화어: 그라프)는 일련의 꼭짓점들과 그 사이를 잇는 변들로 구성된 조합론적 구조이다. |

- Result CSV (row content)

| | |
|---|---|
| 1 | title,description |
| 2 | graph (discrete mathematics),"In discrete mathematics, and more specifically in graph theory, a graph is a structure amounting to a set of objects in which some pairs of the objects are in some sense "related". The objects are represented by abstractions called vertices (also called nodes or nodes), and the edges are called edges or edges. |
| 3 | 그래프 (그래프 이론),"수학에서 그래프(영어: graph, 문화어: 그라프)는 일련의 꼭짓점들과 그 사이를 잇는 변들로 구성된 조합론적 구조이다. 그래프를 연구하는 수학의 분야를 그래프 이론이라고 한다. "그래프"라는 용어는 1878년 J. J. 실베스터에 의해 처음 사용되었다.[1][2]" |
| 4 | |

Note

- Web Server Authentication (Login Information)

| id | pw |
|------|------|
| asdf | asdf |

- game.db, Wikipedia_Content.csv : It will be created automatically with executing python scripts. So, I'll not attach them.