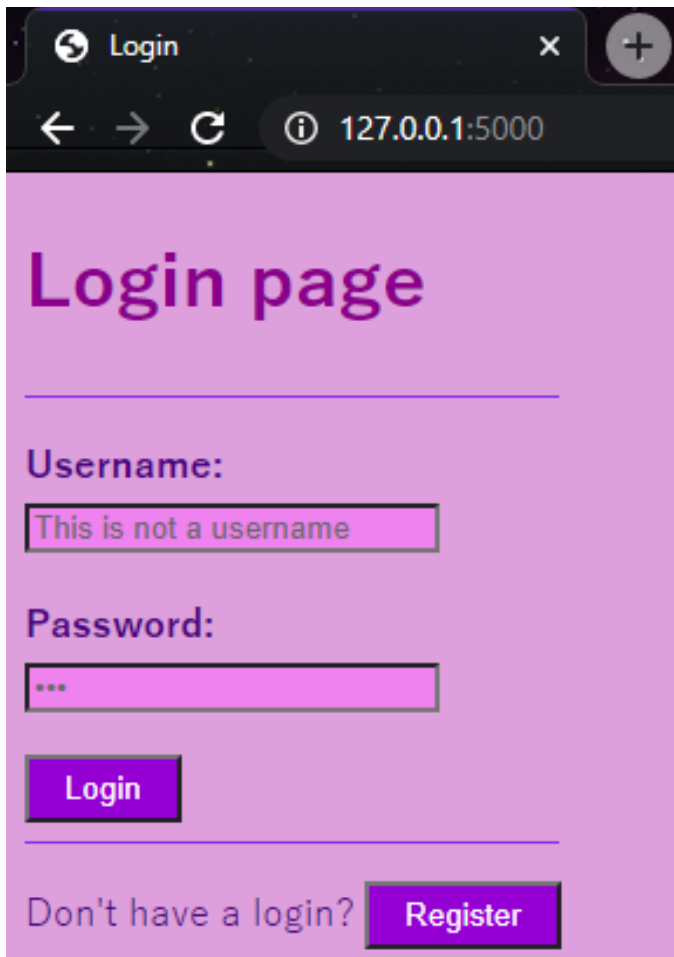
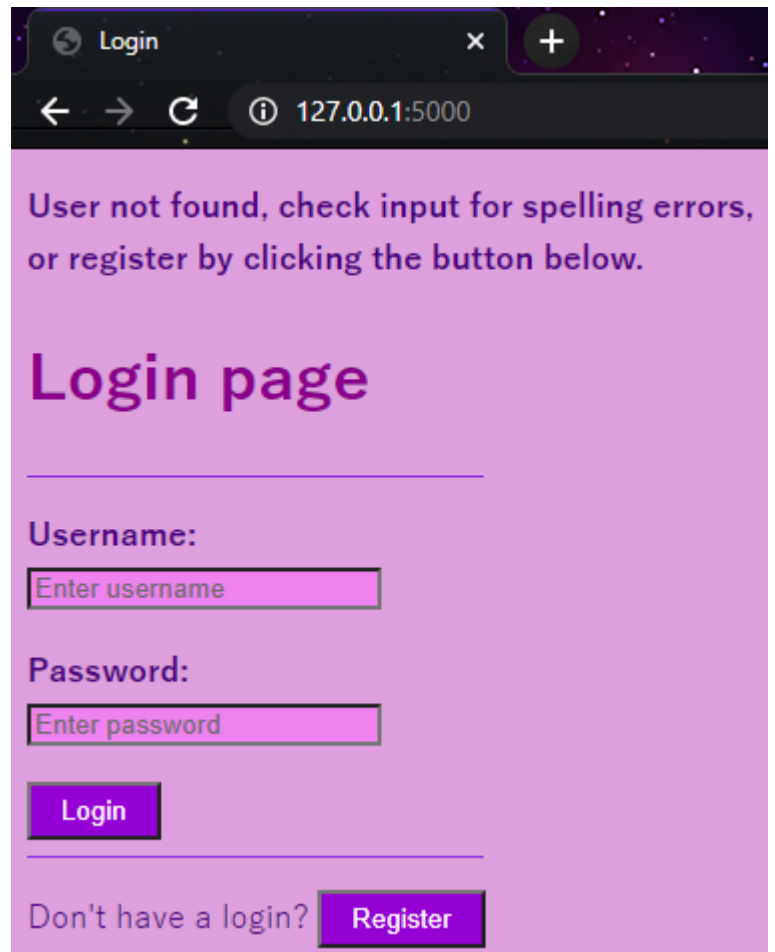


Test case #1. Showing the flash that results from logging in before creating an account.



A screenshot of a web browser window titled "Login" with the address bar showing "127.0.0.1:5000". The page has a light blue background. At the top, it says "Login page" in a large, bold, black font. Below this is a horizontal line. The "Username:" label is followed by a text input field containing the error message "This is not a username" in red. Below the username field is the "Password:" label followed by a password input field with three dots. A blue "Login" button is positioned below the password field. At the bottom, there is a link "Don't have a login?" followed by a blue "Register" button.

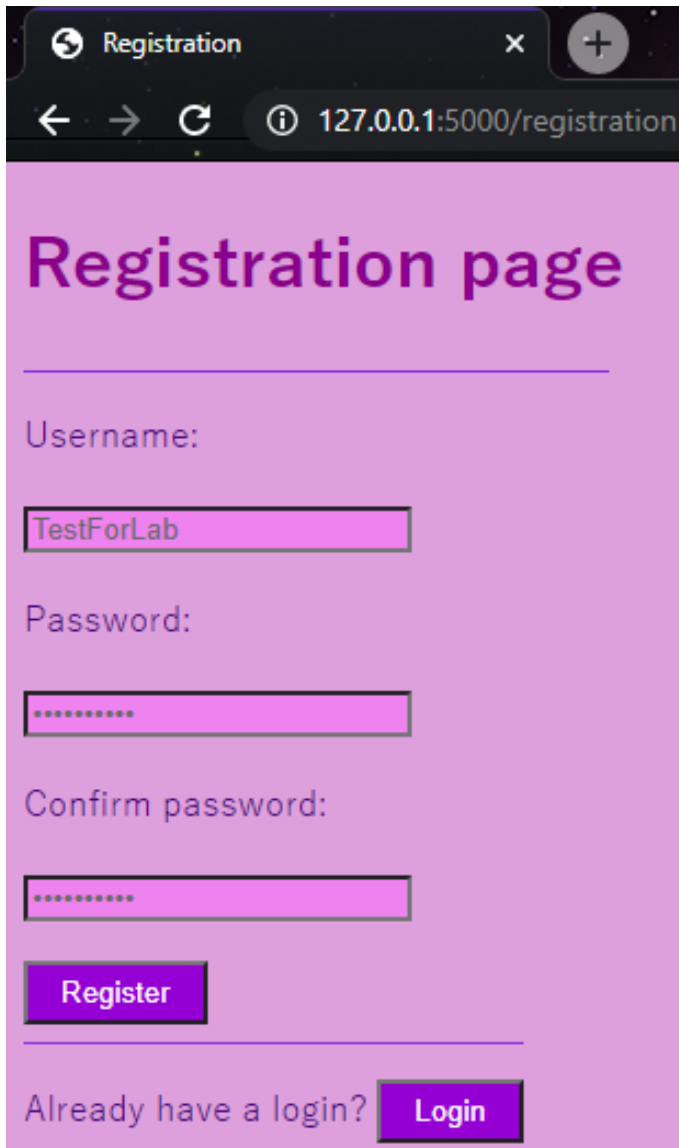
Figure 1. Pressing Login with invalid user.



A screenshot of the same web browser window after a successful login. The page now displays a message in red text: "User not found, check input for spelling errors, or register by clicking the button below." Below this message is the "Login page" title and a horizontal line. The "Username:" label is followed by a text input field containing the placeholder text "Enter username". Below the username field is the "Password:" label followed by a password input field containing the placeholder text "Enter password". A blue "Login" button is positioned below the password field. At the bottom, there is a link "Don't have a login?" followed by a blue "Register" button.

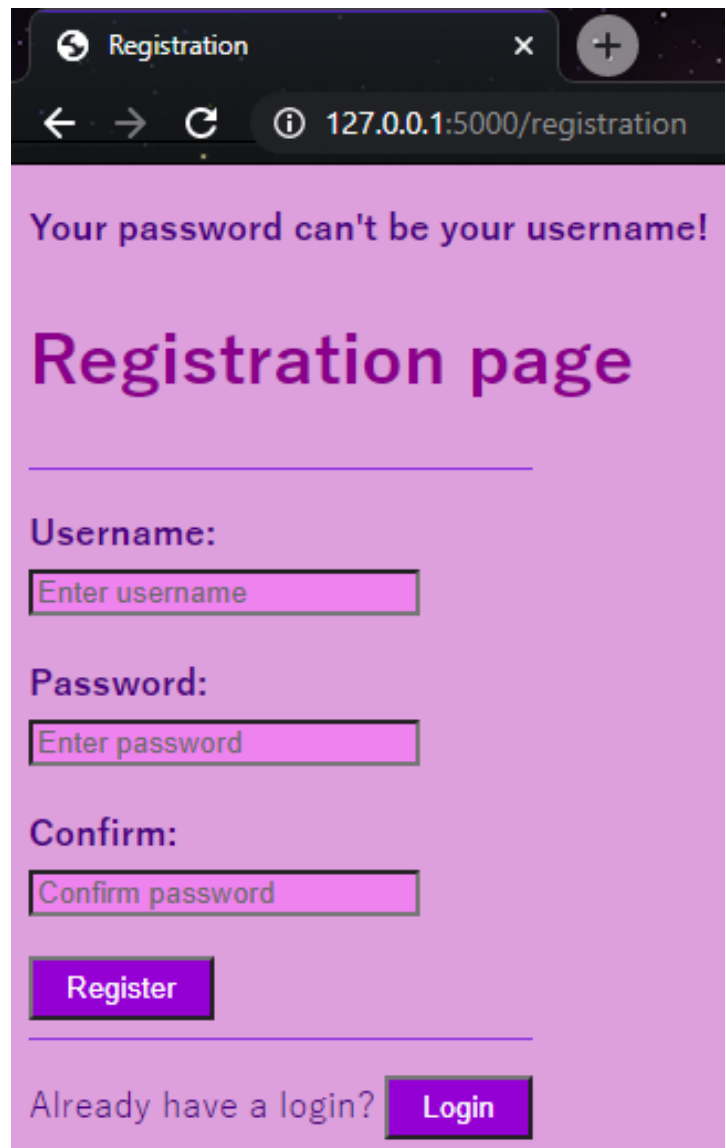
Figure 2. Results of pressing login button with invalid user.

Test case #2. Trying to create an account using the username as password. And showing that register button on login page redirects to registration page.



A screenshot of a web browser showing the registration page. The browser's address bar displays '127.0.0.1:5000/registration'. The page has a light blue background and a title 'Registration page'. It contains three input fields: 'Username:' with the text 'TestForLab', 'Password:' with masked characters, and 'Confirm password:' with masked characters. A blue 'Register' button is at the bottom, and a link 'Already have a login?' with a blue 'Login' button is at the very bottom.

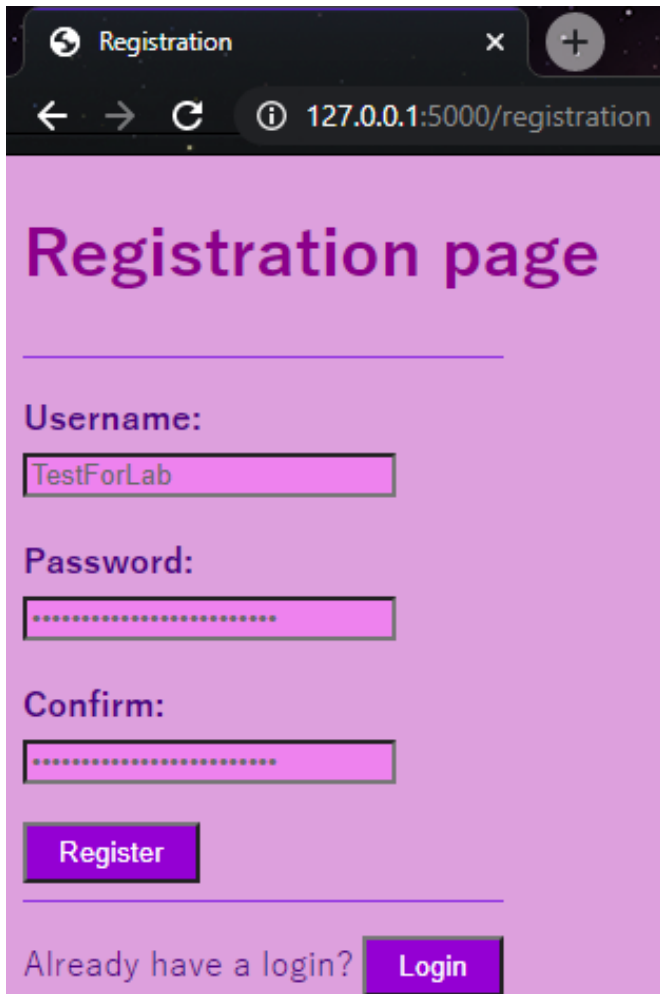
Figure 3. Pressing register when username = pass



A screenshot of the same registration page after an invalid attempt. A red error message 'Your password can't be your username!' is displayed at the top. The input fields now contain placeholder text: 'Enter username' for the username field, 'Enter password' for the password field, and 'Confirm password' for the confirm password field. The 'Register' and 'Login' buttons remain at the bottom.

Figure 4. Flash from invalid registration attempt.

Test case #2 (cont). Trying to create an account without a complex password. Password = thispasswordisnotcomplex
Also trying to create an account when the passwords don't match.



Registration

127.0.0.1:5000/registration

Registration page

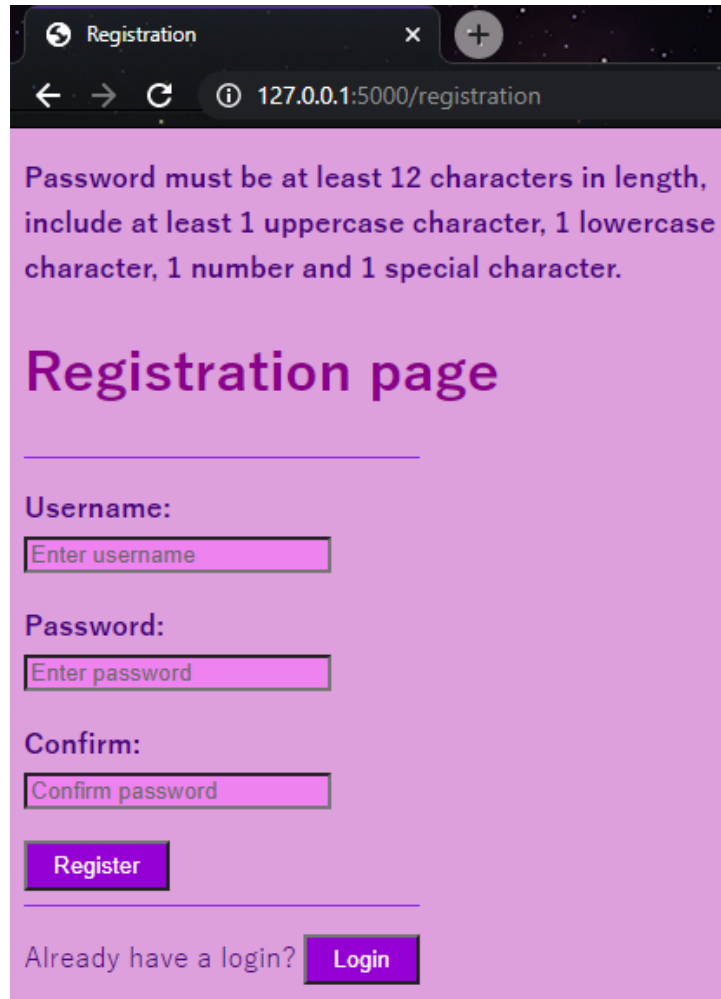
Username:

Password:

Confirm:

Already have a login?

Figure 5. Pressing register without a complex password.



Registration

127.0.0.1:5000/registration

Password must be at least 12 characters in length, include at least 1 uppercase character, 1 lowercase character, 1 number and 1 special character.

Registration page

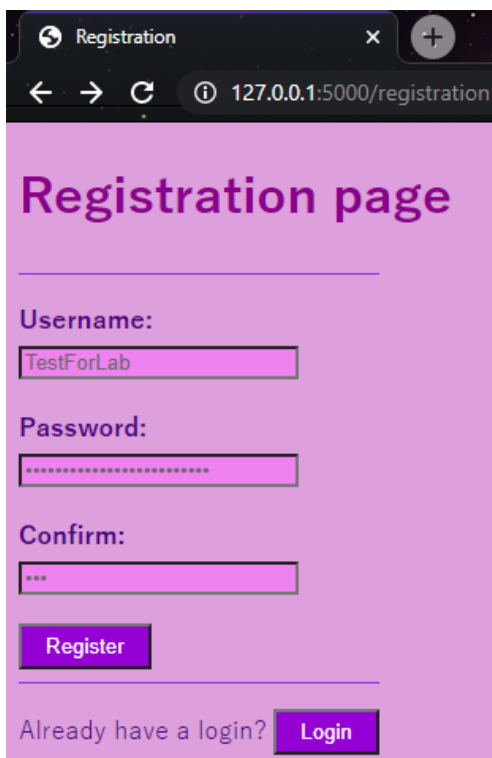
Username:

Password:

Confirm:

Already have a login?

Figure 6. Flash from invalid registration attempt.



Registration

127.0.0.1:5000/registration

Registration page

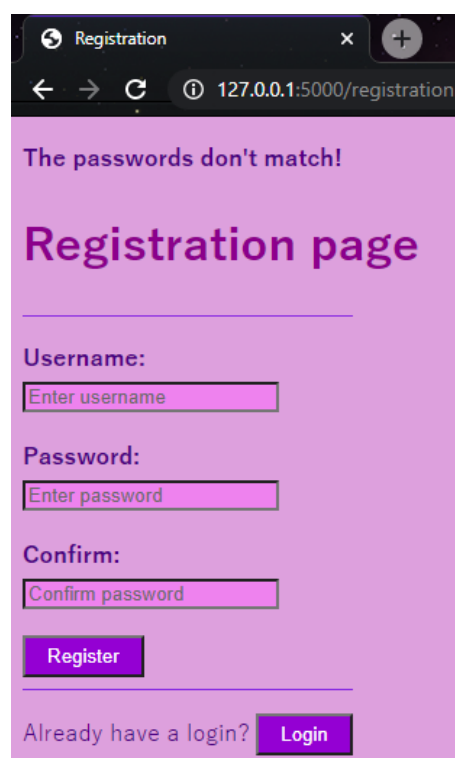
Username:

Password:

Confirm:

Already have a login?

Figure 7. Pressing register when passwords don't match.



Registration

127.0.0.1:5000/registration

The passwords don't match!

Registration page

Username:

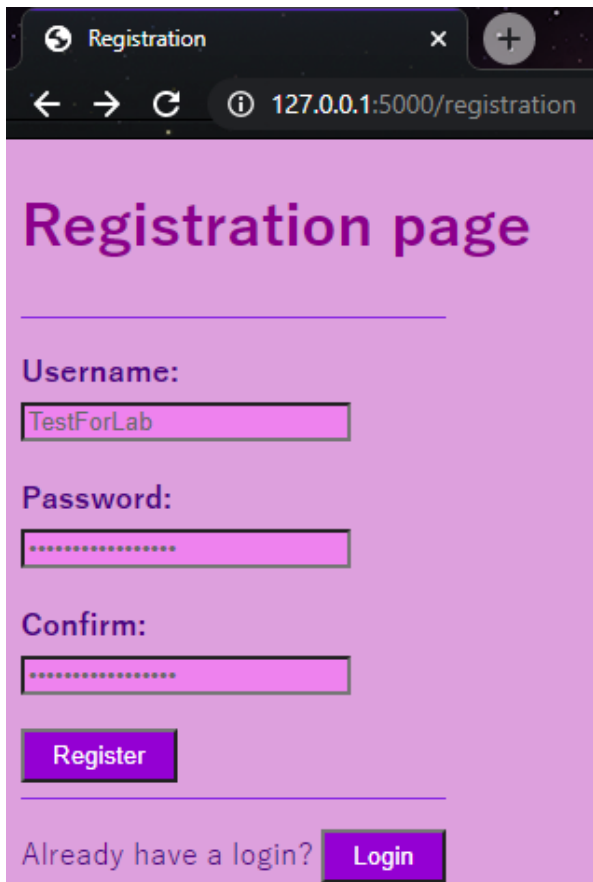
Password:

Confirm:

Already have a login?

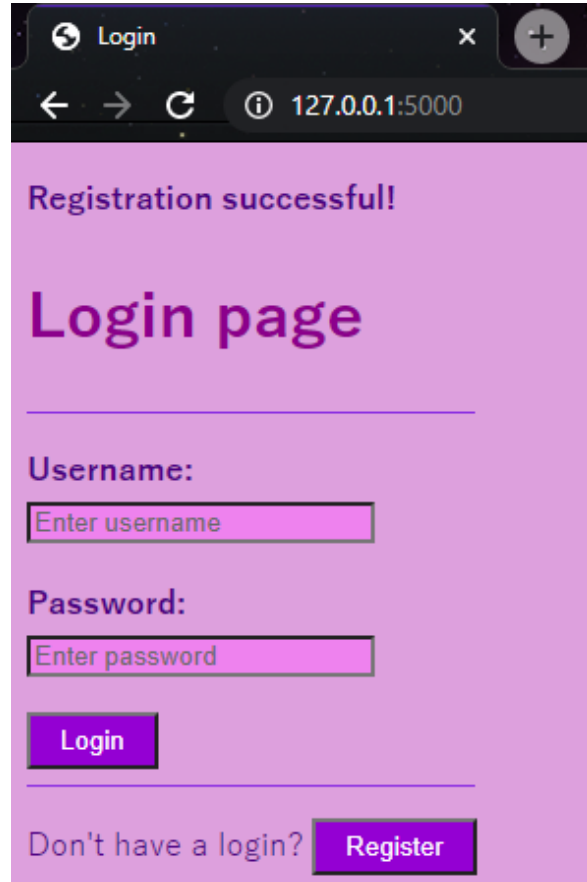
Figure 8. Flash from invalid registration attempt.

Test case #3. Successfully creating an account. Password = #1ComplexPassword
Also trying to create an account with a username that has already been registered.



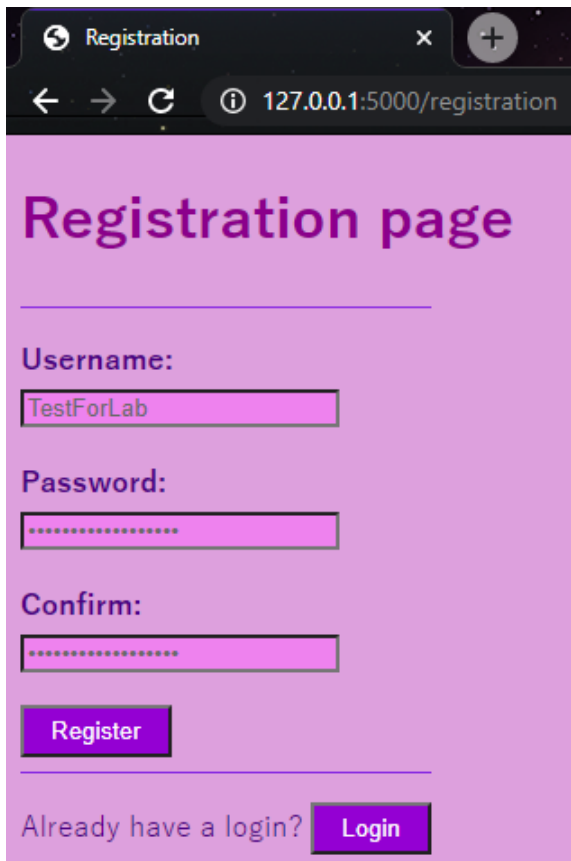
A screenshot of a web browser showing the 'Registration' page. The browser's address bar displays '127.0.0.1:5000/registration'. The page has a light blue background. At the top, a green flash message reads 'Registration successful!'. Below this, the heading 'Login page' is displayed in a large, bold, blue font. The form contains three input fields: 'Username:' with the value 'TestForLab', 'Password:' with masked characters, and 'Confirm:' with masked characters. There is a blue 'Login' button. At the bottom, there is a link 'Don't have a login?' followed by a blue 'Register' button.

Figure 9. Pressing register for valid account.



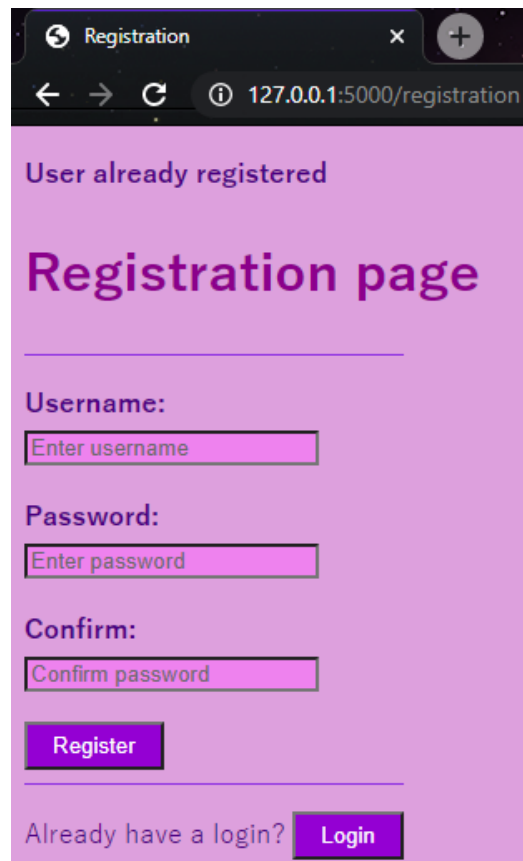
A screenshot of a web browser showing the 'Login' page. The browser's address bar displays '127.0.0.1:5000'. The page has a light blue background. At the top, a green flash message reads 'Registration successful!'. Below this, the heading 'Login page' is displayed in a large, bold, blue font. The form contains two input fields: 'Username:' with the placeholder 'Enter username' and 'Password:' with the placeholder 'Enter password'. There is a blue 'Login' button. At the bottom, there is a link 'Don't have a login?' followed by a blue 'Register' button.

Figure 10. Flash to notify success and redirect to login page.



A screenshot of a web browser showing the 'Registration' page. The browser's address bar displays '127.0.0.1:5000/registration'. The page has a light blue background. At the top, a green flash message reads 'User already registered'. Below this, the heading 'Registration page' is displayed in a large, bold, blue font. The form contains three input fields: 'Username:' with the value 'TestForLab', 'Password:' with masked characters, and 'Confirm:' with masked characters. There is a blue 'Register' button. At the bottom, there is a link 'Already have a login?' followed by a blue 'Login' button.

Figure 11. Trying to register with a taken username



A screenshot of a web browser showing the 'Registration' page. The browser's address bar displays '127.0.0.1:5000/registration'. The page has a light blue background. At the top, a green flash message reads 'User already registered'. Below this, the heading 'Registration page' is displayed in a large, bold, blue font. The form contains three input fields: 'Username:' with the placeholder 'Enter username', 'Password:' with the placeholder 'Enter password', and 'Confirm:' with the placeholder 'Confirm password'. There is a blue 'Register' button. At the bottom, there is a link 'Already have a login?' followed by a blue 'Login' button.

Figure 12. Flash from invalid registration attempt.

Test case #4. Trying to access home and page2 without being logged in.

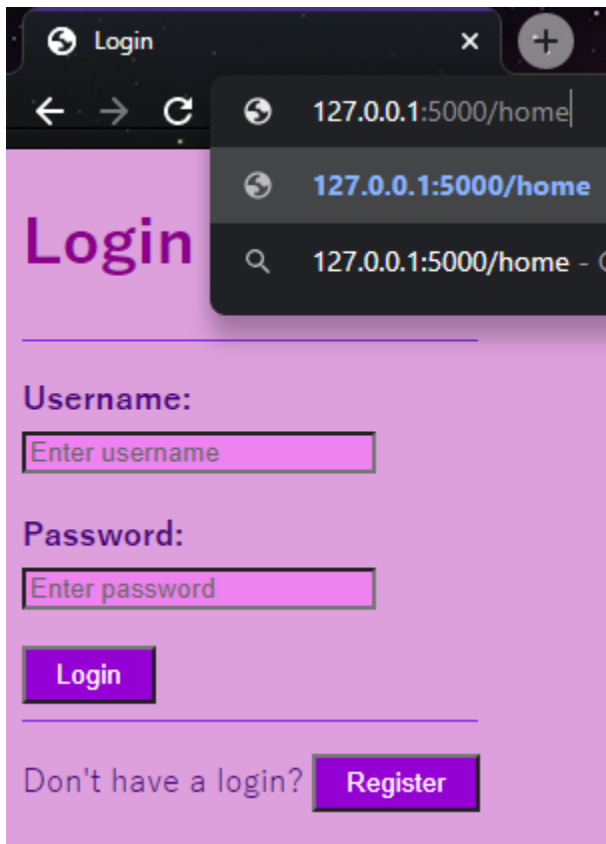


Figure 13. Trying to access home page without being logged in.

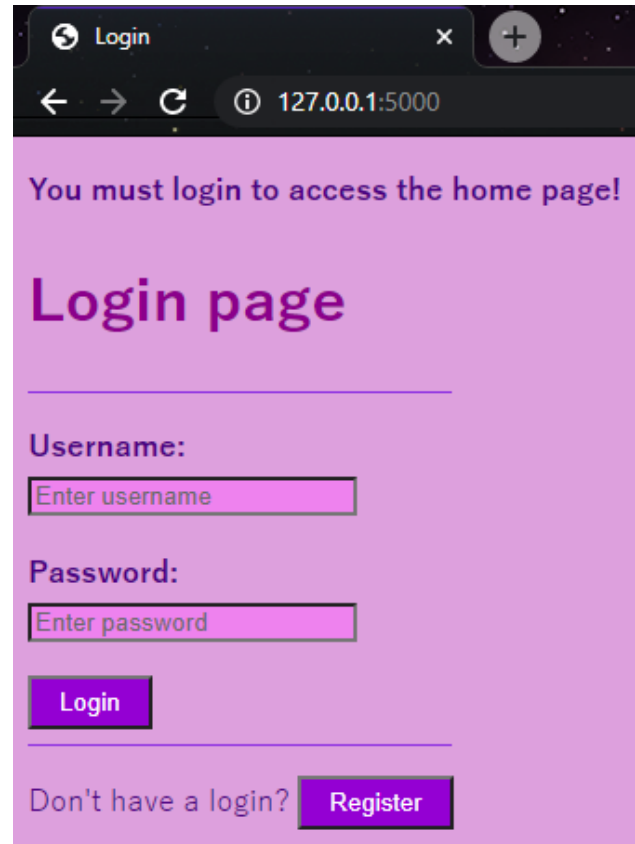


Figure 14. Flash and redirect.

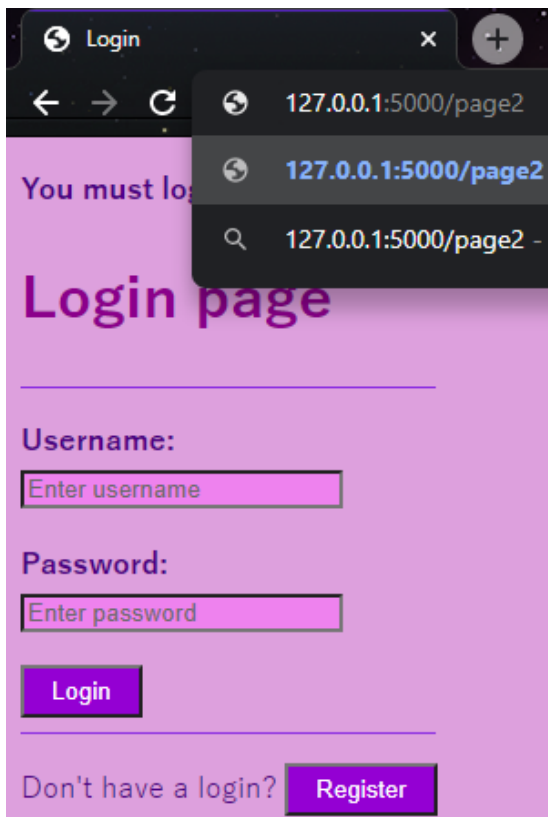


Figure 15. Trying to access page2 without being logged in.

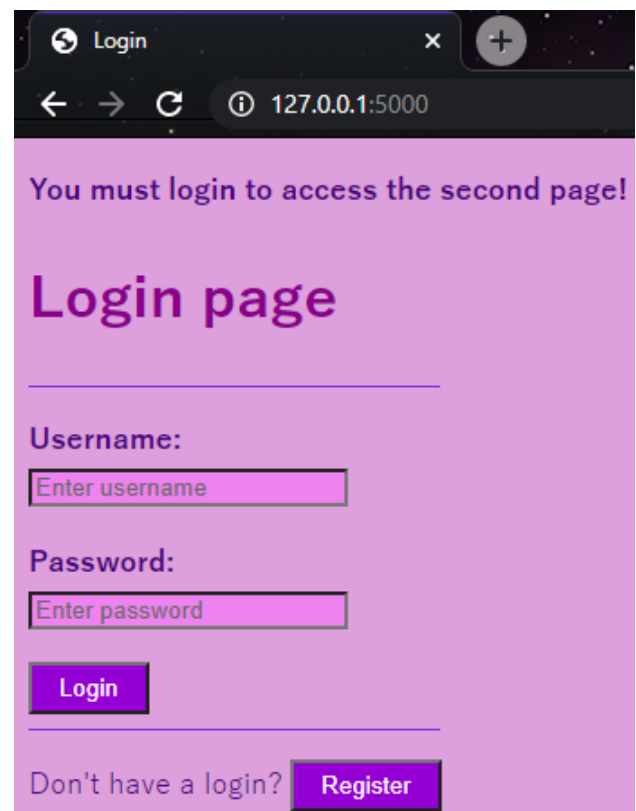


Figure 16. Flash and redirect.

Test case #4 (cont). Trying to access page3 without being logged in. Also showing that usernames are case sensitive.

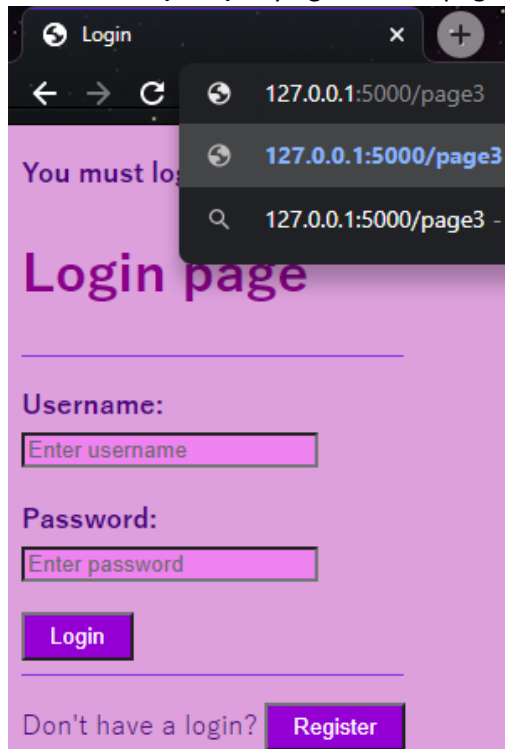


Figure 17. Trying to access page3 without being logged in.

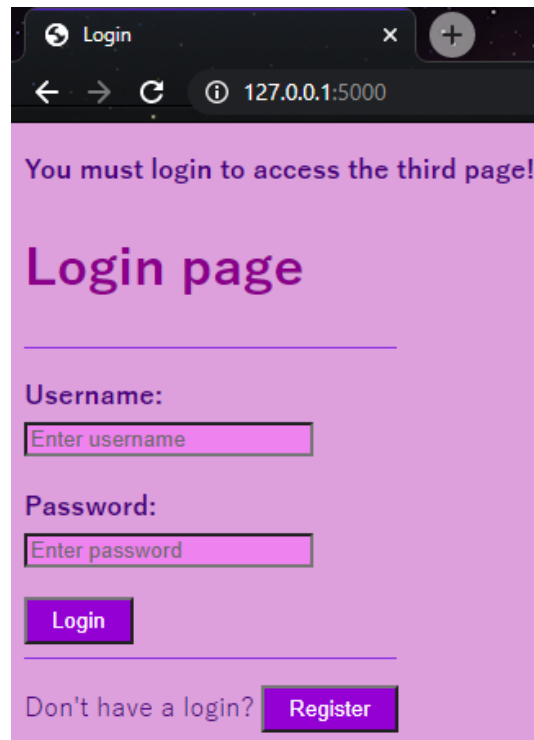


Figure 18. Flash and redirect.

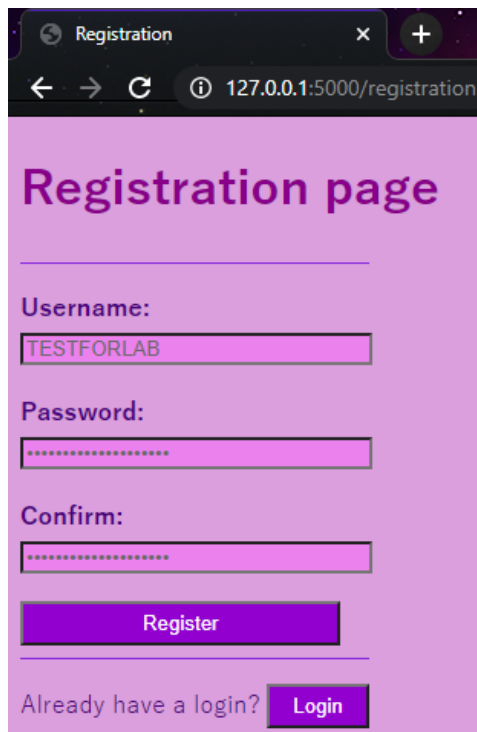


Figure 19. New TESTFORLAB user (case sensitive).

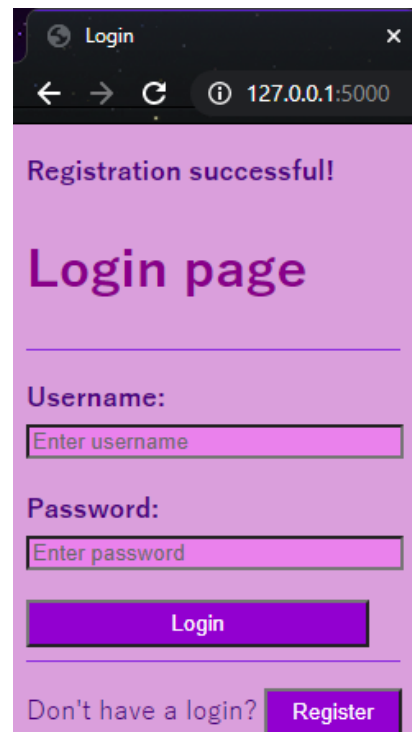


Figure 20. Flash and redirect.

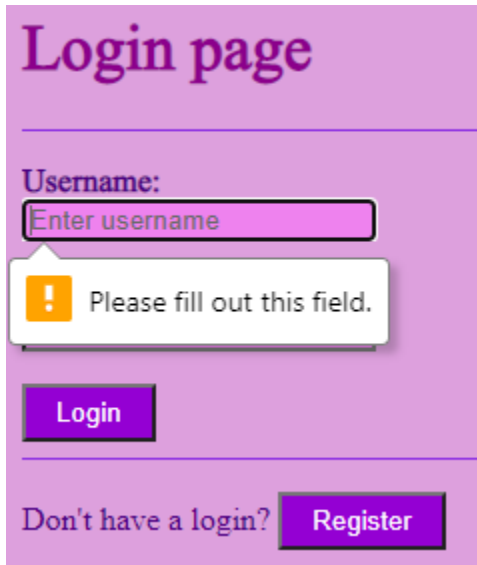
```

1 TestForLab
2 $5$rounds=535000$w4Zr1rnyI8HghEvc$cJx9MkOT7LAW7GLSBExIo5Ni1Ym56yuqdiGqNnIEhG8
3 TESTFORLAB
4 $5$rounds=535000$ySDG1s3ZZxu.5.MK$DdALmuQAoaMXdA1RacMQ.IeIvgfZv1WJZANDCLdJ5L4

```

Figure 21. Showing both users in the passfile.

Test case #5. Showing that text is required for all fields



Login page

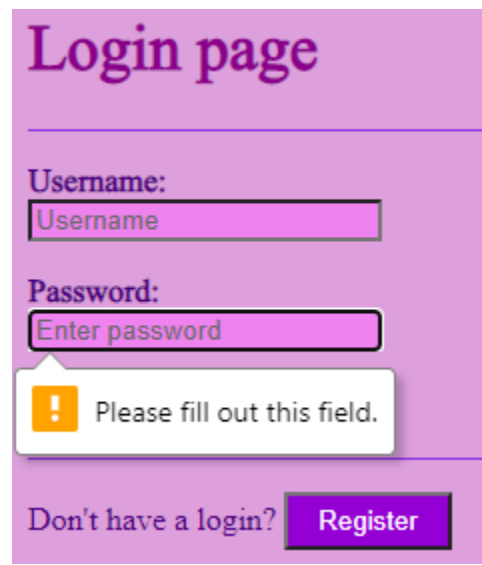
Username:

! Please fill out this field.

Login

Don't have a login? [Register](#)

Figure 22. No username (Login Page).



Login page

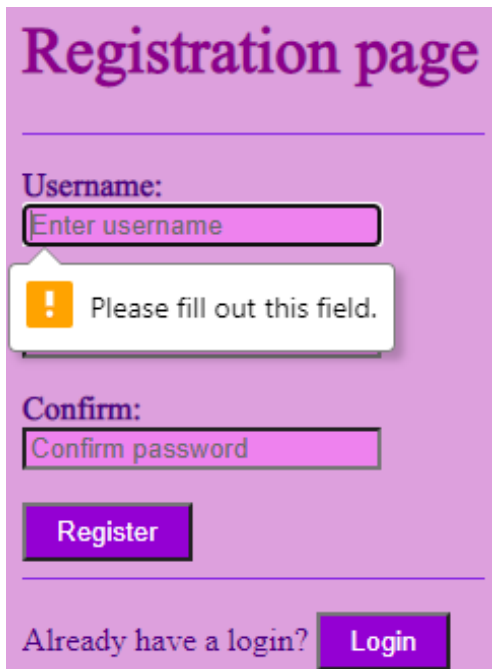
Username:

Password:

! Please fill out this field.

Don't have a login? [Register](#)

Figure 23. No password (Login Page).



Registration page

Username:

! Please fill out this field.

Confirm:

Register

Already have a login? [Login](#)

Figure 24. No username (Registration).



Registration page

Username:

Password:

! Please fill out this field.

Register

Already have a login? [Login](#)

Figure 25. No password (Registration).



Registration page

Username:

Password:

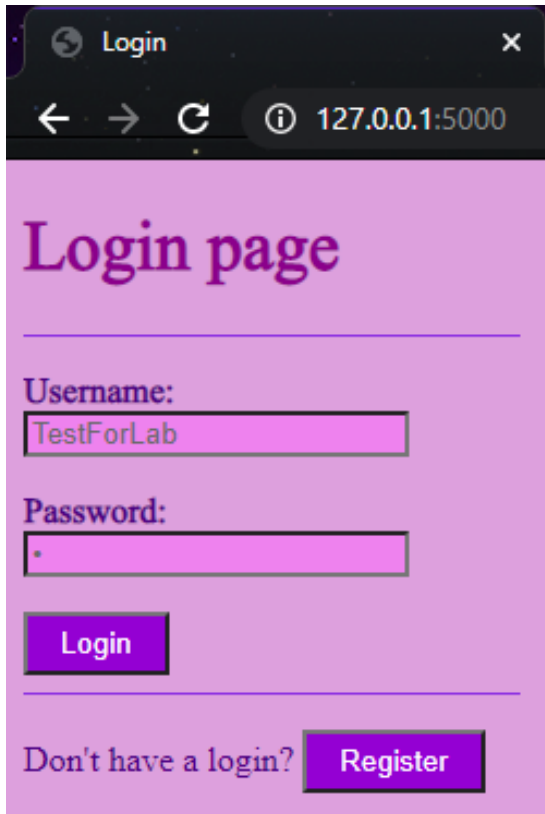
Confirm:

! Please fill out this field.

Already have a login? [Login](#)

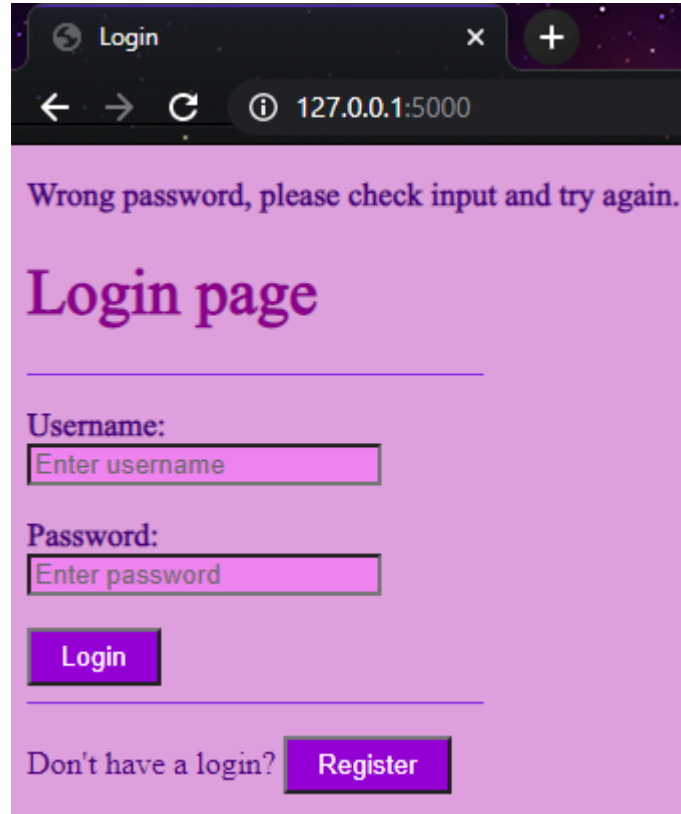
Figure 26. No confirm (Registration).

Test case #6. Trying to log in with the wrong password.



A screenshot of a web browser showing a login page. The browser's address bar displays "127.0.0.1:5000". The page has a light blue header with the title "Login page". Below the header, there are two input fields: "Username:" with the text "TestForLab" and "Password:" with a single asterisk. A blue "Login" button is positioned below the password field. At the bottom, there is a link "Don't have a login?" followed by a blue "Register" button.

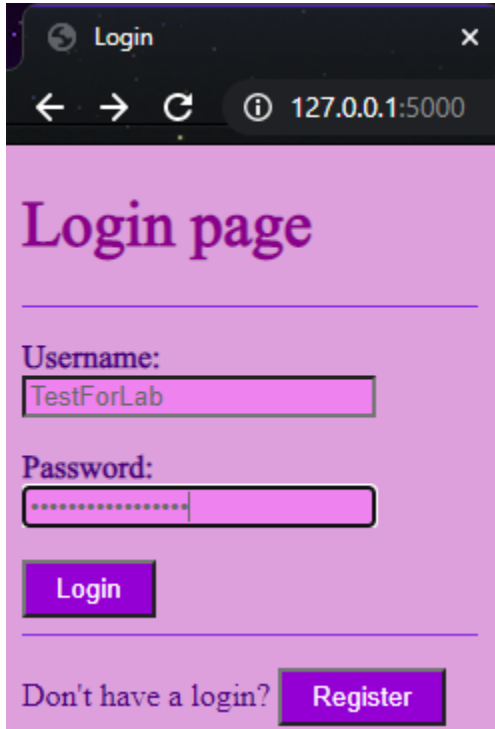
Figure 27. Logging in with wrong password.



A screenshot of the same login page as Figure 27, but with an error message. The browser's address bar still shows "127.0.0.1:5000". A red error message "Wrong password, please check input and try again." is displayed at the top of the page content. The "Username:" field now contains the placeholder text "Enter username", and the "Password:" field contains the placeholder text "Enter password". The "Login" button and the "Don't have a login? Register" link remain at the bottom.

Figure 28. Flash informing user of wrong password.

Test case #7. Showing login with current username and password.



A screenshot of the login page showing the current state. The browser's address bar displays "127.0.0.1:5000". The page title is "Login page". The "Username:" field contains "TestForLab". The "Password:" field is filled with a series of dots, indicating a masked password. A blue "Login" button is located below the password field. At the bottom, there is a link "Don't have a login?" followed by a blue "Register" button.

Test case #7 (cont). Showing successful login and redirect to home page. Also showing updated home page with images.

Home Page
127.0.0.1:5000/home

Login successful!






Home page

Current date and time: November 05, 2020 12:58

About this website:

This website was made as a part of a homework assignment. I (Ben Sutter) am a student at the University of Maryland Global Campus (UMGC). This is my third semester, I am currently pursuing a Bachelor's degree in Computer Science. Before UMGC, I was studying at Pikes Peak Community College in Colorado Springs. I transferred to UMGC at the start of 2020. Here is a random fact about me to show off an ordered list:

Favorite Video Games:

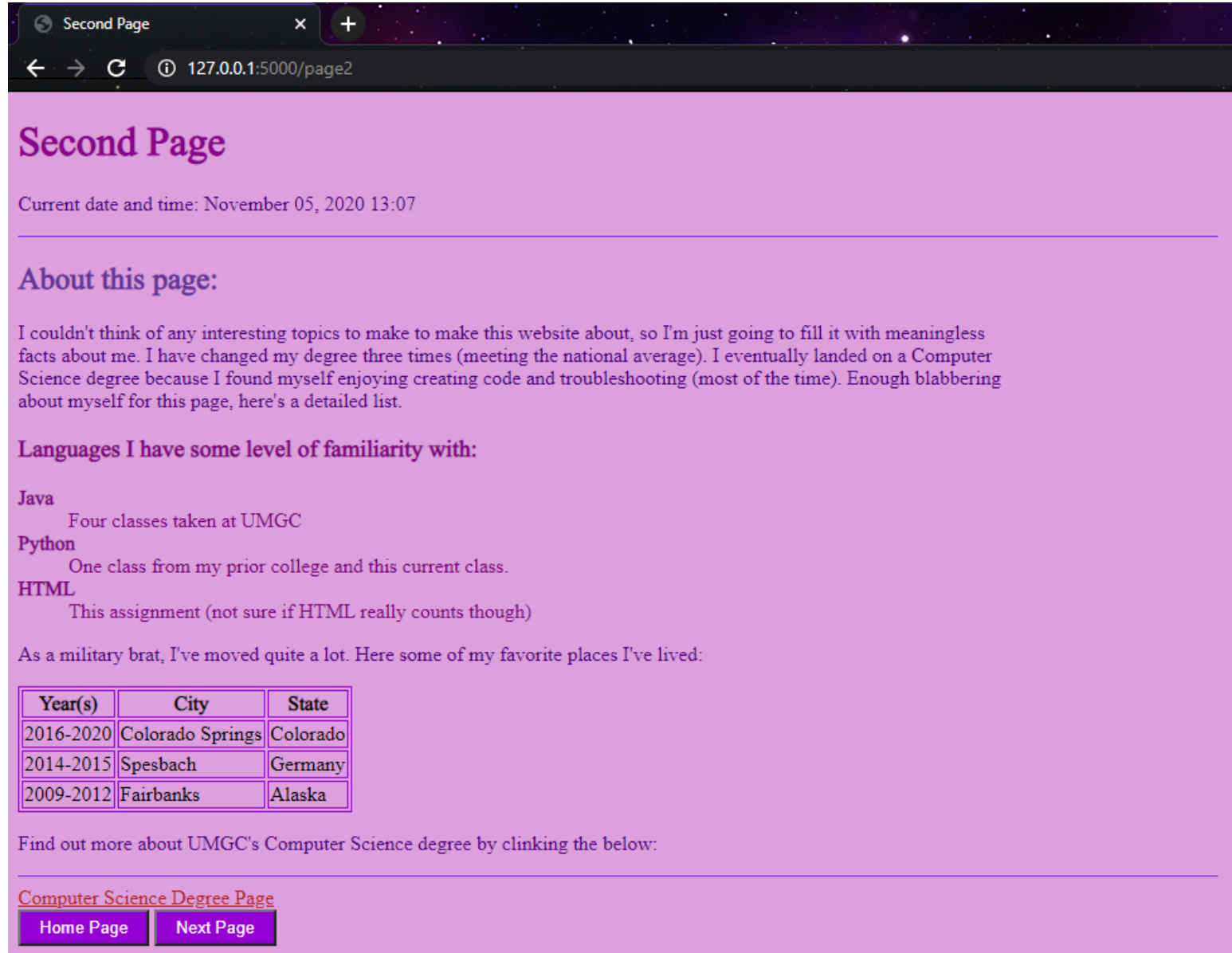
1. Monster Hunter World
 
2. Subnautica
 
3. Satisfactory
 
4. Stardew Valley
 
5. Darkest Dungeon
 

I had never worked with html or css before so this was a fun project. I like how you can do cool things like *italics* and ^{superscript}. This "paragraph" is now ending, thanks for your time.

Find out more about UMGC by clicking the below:

[UMGC Website](#)
[Next Page](#)

Test case #7 (cont). Showing updated page 2 with table (page 3 was not updated at all so no need to show).



The screenshot shows a web browser window with the address bar displaying '127.0.0.1:5000/page2'. The page title is 'Second Page'. The content includes a date and time, a section 'About this page:', a paragraph about the website's purpose, a section 'Languages I have some level of familiarity with:' listing Java, Python, and HTML, a section 'As a military brat, I've moved quite a lot. Here some of my favorite places I've lived:' followed by a table of residence data, a link to 'Computer Science Degree Page', and two buttons: 'Home Page' and 'Next Page'.

Second Page

Current date and time: November 05, 2020 13:07

About this page:

I couldn't think of any interesting topics to make to make this website about, so I'm just going to fill it with meaningless facts about me. I have changed my degree three times (meeting the national average). I eventually landed on a Computer Science degree because I found myself enjoying creating code and troubleshooting (most of the time). Enough blabbering about myself for this page, here's a detailed list.

Languages I have some level of familiarity with:

Java
Four classes taken at UMGC

Python
One class from my prior college and this current class.

HTML
This assignment (not sure if HTML really counts though)

As a military brat, I've moved quite a lot. Here some of my favorite places I've lived:

Year(s)	City	State
2016-2020	Colorado Springs	Colorado
2014-2015	Spesbach	Germany
2009-2012	Fairbanks	Alaska

Find out more about UMGC's Computer Science degree by clicking the below:

[Computer Science Degree Page](#)

[Home Page](#) [Next Page](#)

Pylint results:

```
(venv) C:\Users\munki\PycharmProjects\lab7>pylint lab7.py

-----
Your code has been rated at 10.00/10 (previous run: 9.89/10, +0.11)
```