



IT314 - Software Engineering **System Testing**

BlackBox Testing

1. Signup test:

Email constraints:

Should contain '@' sign with character before and after. Should not already be registered.

Password constraints:

Password must contain capital letter [A-Z]
must contain between 8-12 characters

Password confirmation:

Must be the same as Password.

Equivalence class partitioning:

Note: Each attribute of the equivalence table which satisfies their constraints is considered as the valid input otherwise it will be considered as invalid input.

Equivalence class	E-mail	Password	Confirm Password	Result
E1	valid	valid	valid	success
E2	invalid	valid	valid	error
E3	valid	invalid	valid	error
E4	valid	valid	invalid	error
E5	valid	invalid	invalid	error
E6	invalid	valid	invalid	error
E7	invalid	invalid	valid	error
E8	invalid	invalid	invalid	error

Boundary value analysis:

E-mail	Password	Confirm Password	Expected Output	Actual Output	Reason
a@	Abcd@123	Abcd@123	fail	fail	Email constraint
@gmail.com	Abcd@123	Abcd@123	fail	fail	Email constraint
abc@gmail.com	abcd@123	abcd@123	success	success	Password constraint
abc@gmail	Abcd@1	Abcd@1	fail	fail	Email constraint
abc@gmail.com	Abcd@123	Abcd1234	fail	fail	Password Not match
abc@gmail.com	Abcd@123	Abcd@123	success	success	E-mail Should not be used

2. Login Test:**Email constraint:**

Required field (cannot be empty) , already registered.

Password constraint:

Required field (cannot be empty) (not checking for another constraints as it is already stored in database)

Equivalence class partitioning:

Note: Each attribute of the equivalence table which satisfies their constraints is considered as the valid input otherwise it will be considered as invalid input.

Equivalence class	E-mail	Password	Result
E1	valid	valid	success
E2	invalid	valid	error

E3	valid	invalid	error
E4	invalid	invalid	error

Boundary value analysis:

E-mail	Password	Expected Output	Actual Output	Reason
a@	Abcd@123	fail	fail	Email constraint
@gmail.com	Abcd@123	fail	fail	Email constraint
abc@gmail.com	abcd	fail	fail	Password constraint
abc@gmail.com	Abcd@123	success	fail	If E-mail Is not registered
abc@gmail.com	Abcd@123	success	success	If E-mail Is registered

3. Profile edit:

First/Last name:

Required field (cannot be empty)

Edit/Remove Image:

Edit and remove both should not be done.

Phone number:

Must be of 10 digits

Equivalence class partitioning:

Note: Each attribute of the equivalence table which satisfies their constraints is considered as the valid input otherwise it will be considered as invalid input.

Equivalence class	Name	Edit Image	Mobile No.	Result
E1	valid	valid	valid	success
E2	invalid	valid	valid	error
E3	valid	invalid	valid	error

E4	valid	valid	invalid	error
E5	valid	invalid	invalid	error
E6	invalid	valid	invalid	error
E7	invalid	invalid	valid	error
E8	invalid	invalid	invalid	error

Boundary value analysis:

First Name	Last Name	Username	Email	Expected Output	Actual Output	Reason
	xy	abc	abc@gmail.com	fail	fail	First name can't be NULL
abc		abc	abc@gmail.com	fail	fail	Last name can't be NULL
abc	xy	abc	abc@	fail	fail	Email constraint
abc	abcd	abc	abc@gmail.com	fail	fail	Username already taken
abc	abcd		xyz@gmail.com	fail	fail	Username can't be NULL
abc	ABC	xyz	xyz@gmail.com	Pass	Pass	-

4.Entering Location:

Enter Location:

Required field (cannot be empty),
Location Entered doesn't exist.

Equivalence class partitioning:

Note: Each attribute of the equivalence table which satisfies their constraints is considered as the valid input otherwise it will be considered as invalid input.

Equivalence class	Location	Result
E1	valid	success
E2	invalid	error

Boundary value analysis:

Location	Expected Output	Actual Output	Reason
Su	fail	fail	Location Invalid
Surat	Success	Success	Location valid
Ahmd	Fail	fail	Location Invalid (Spelling)

Acceptance Testing

1. Sign up:

Test: 1

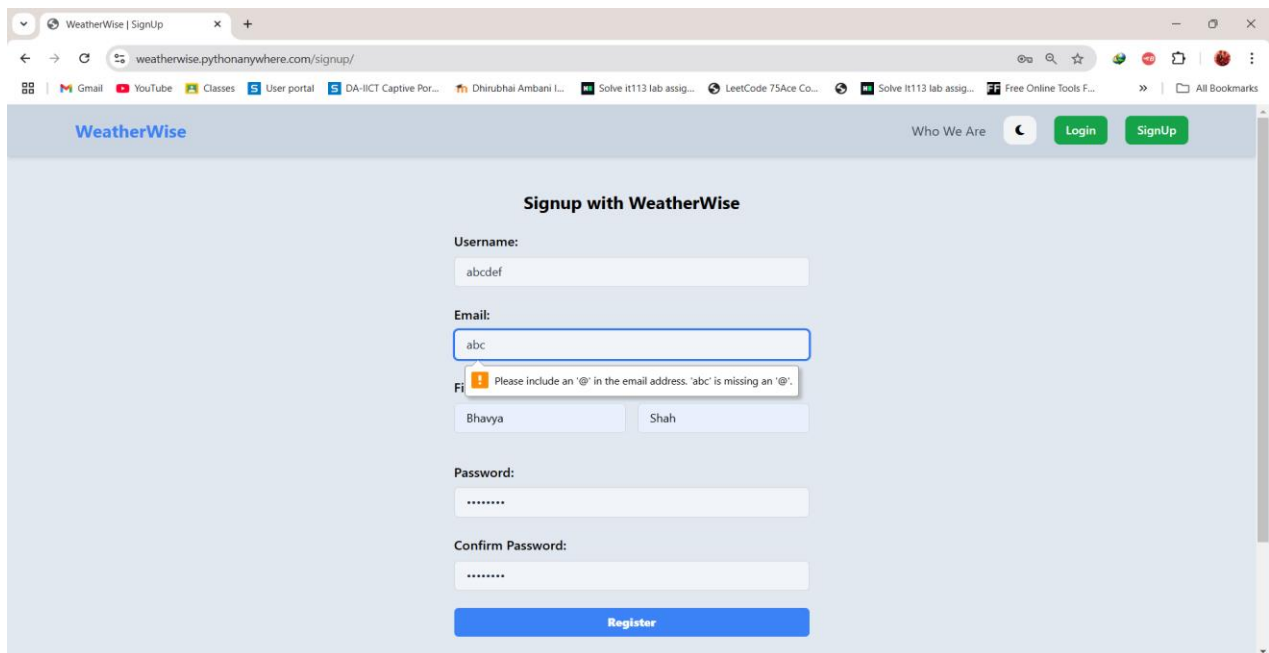
Email: abc

password: Abcd@123

First Name: Bhavya

Last Name: Shah

Output: Invalid



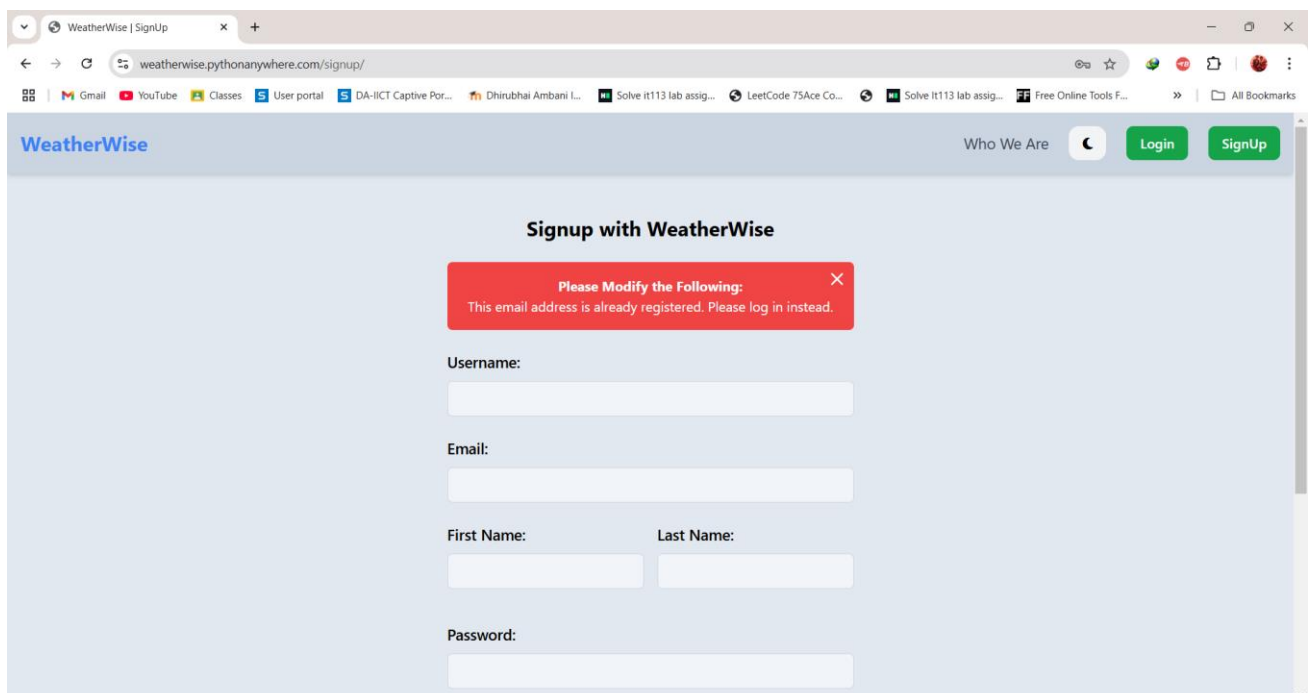
The screenshot shows the WeatherWise Signup page. The form fields are: Username (filled with 'abcdef'), Email (filled with 'abc'), First Name (filled with 'Bhavya'), Last Name (filled with 'Shah'), Password (filled with '*****'), and Confirm Password (filled with '*****'). A red error message is displayed below the Email field: "Please include an '@' in the email address. 'abc' is missing an '@'." The Register button is visible at the bottom of the form.

Test: 2

Email: adit@gmail.com

password: Abcd@123

Output: Invalid



The screenshot shows the WeatherWise Signup page. A red error message is displayed at the top of the form: "Please Modify the Following: This email address is already registered. Please log in instead." The form fields are: Username (empty), Email (empty), First Name (empty), Last Name (empty), Password (empty), and Confirm Password (empty). The Register button is visible at the bottom of the form.

Test: 3

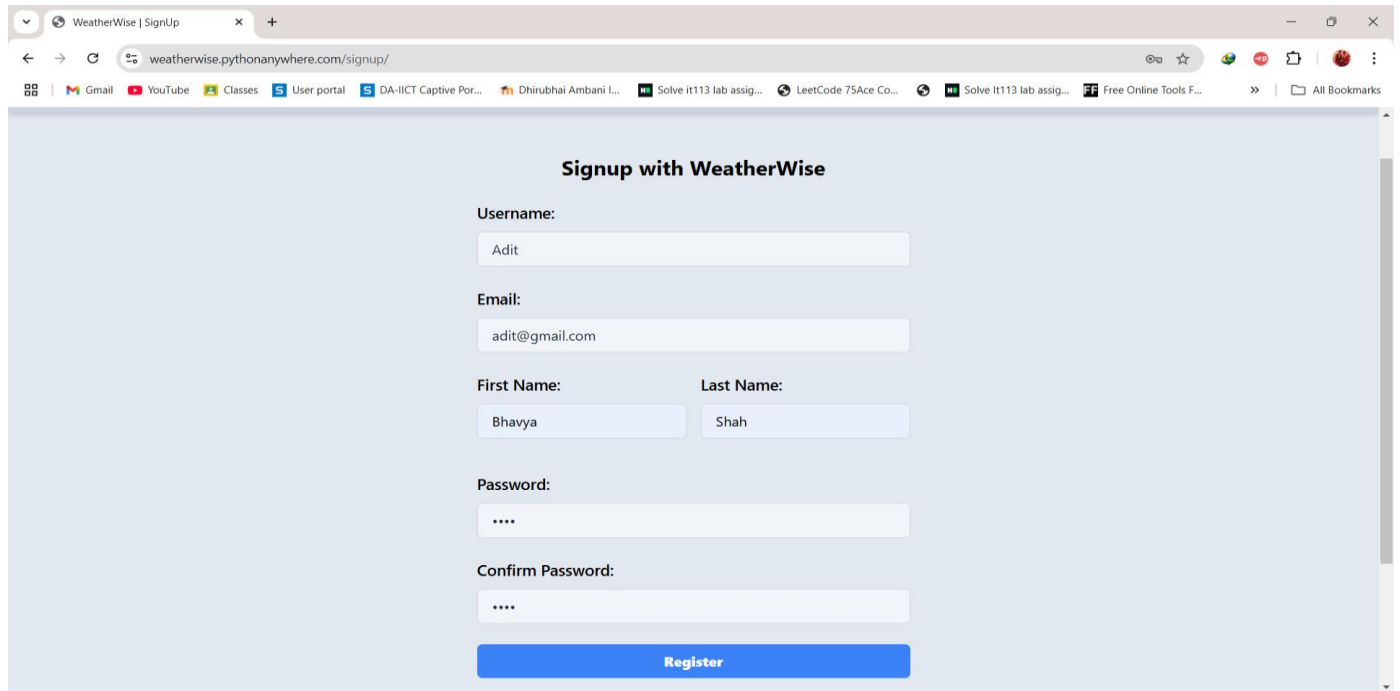
Email: adit@gmail.com Password:

Abcd

First Name: Bhavya

Last Name: Shah

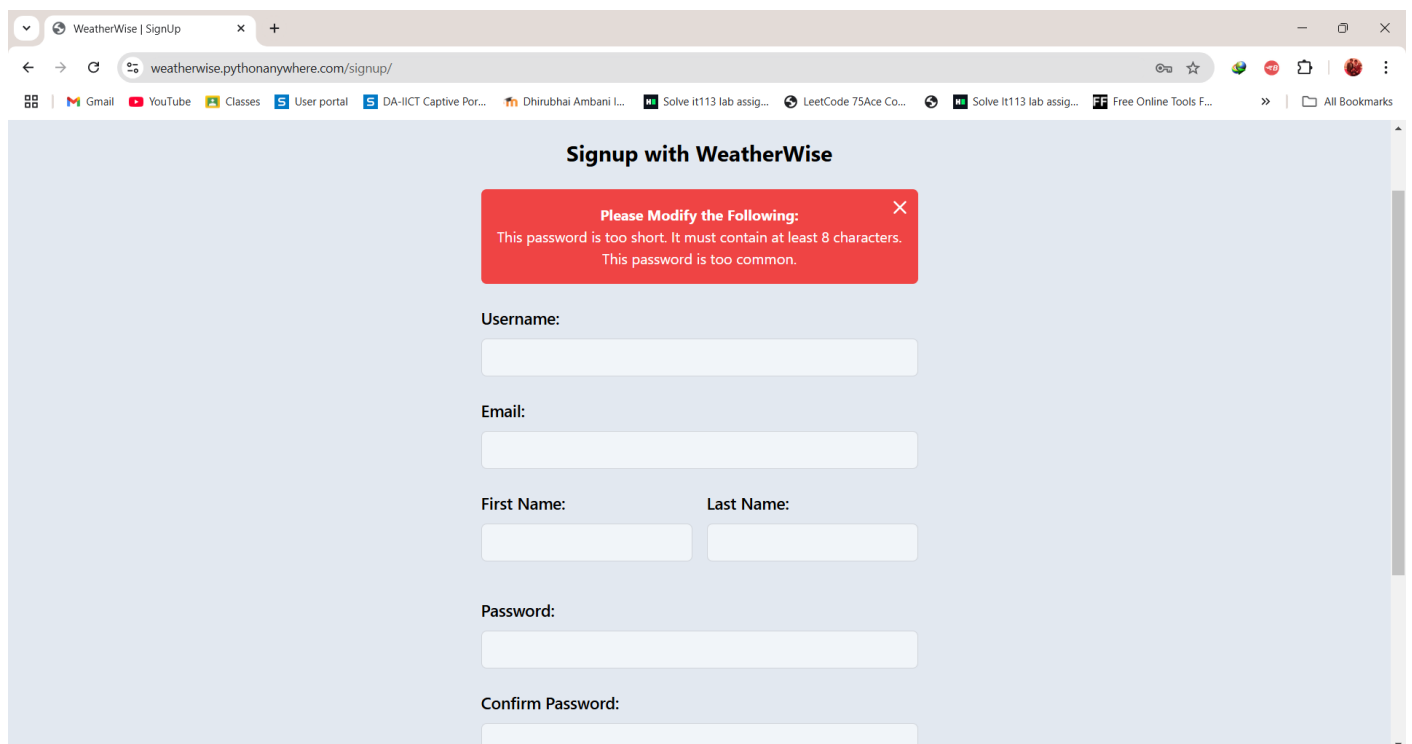
Output: Invalid



The screenshot shows a web browser window with the URL `weatherwise.pythonanywhere.com/signup/`. The page title is "Signup with WeatherWise". The form contains the following fields and values:

- Username:** Adit
- Email:** adit@gmail.com
- First Name:** Bhavya
- Last Name:** Shah
- Password:** (masked with four dots)
- Confirm Password:** (masked with four dots)

A blue "Register" button is located at the bottom of the form.



The screenshot shows the same "Signup with WeatherWise" page, but with a red error message box at the top. The message reads:

Please Modify the Following:
This password is too short. It must contain at least 8 characters.
This password is too common.

The form fields are now empty:

- Username:** (empty)
- Email:** (empty)
- First Name:** (empty)
- Last Name:** (empty)
- Password:** (empty)
- Confirm Password:** (empty)

Test: 4

Email: amar.t@gmail.com password:

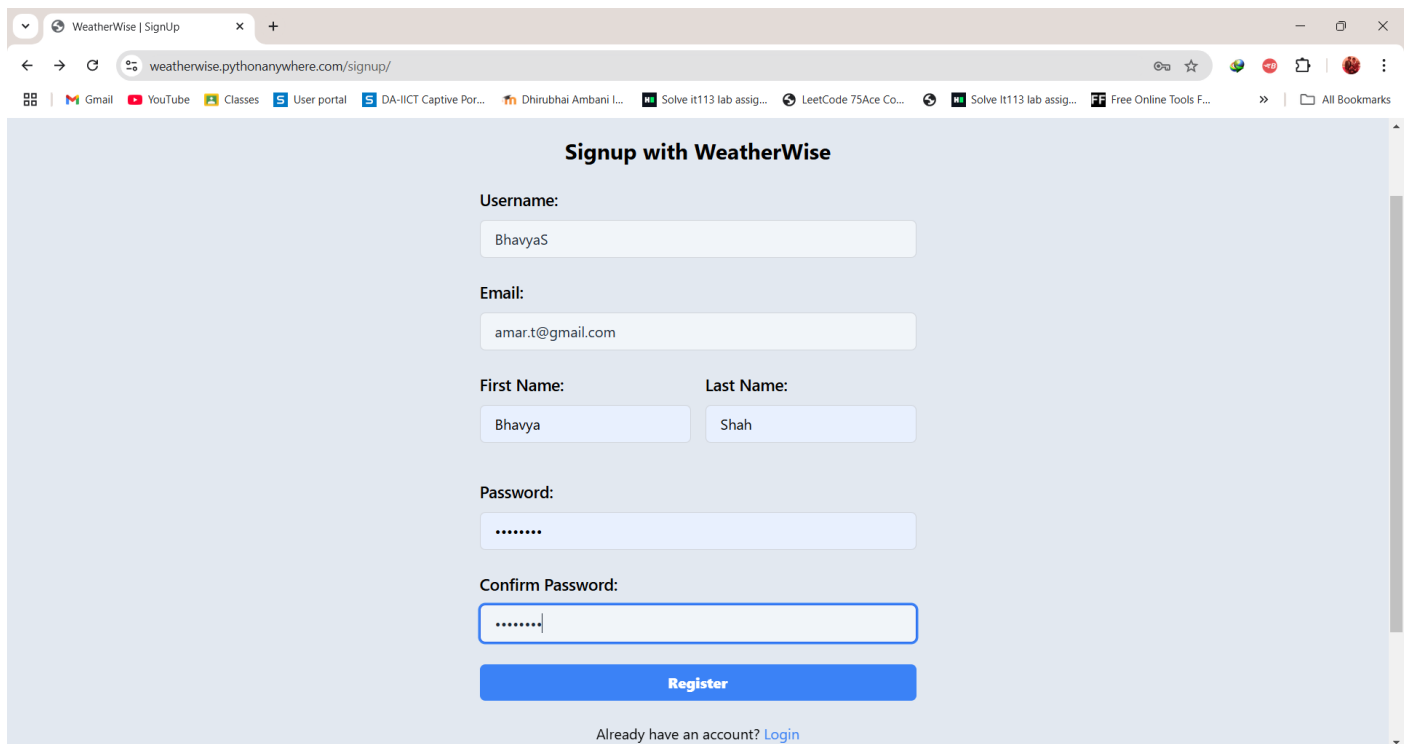
Rishi123

First Name: Bhavya

Last Name: Shah

Username: BhavyaS

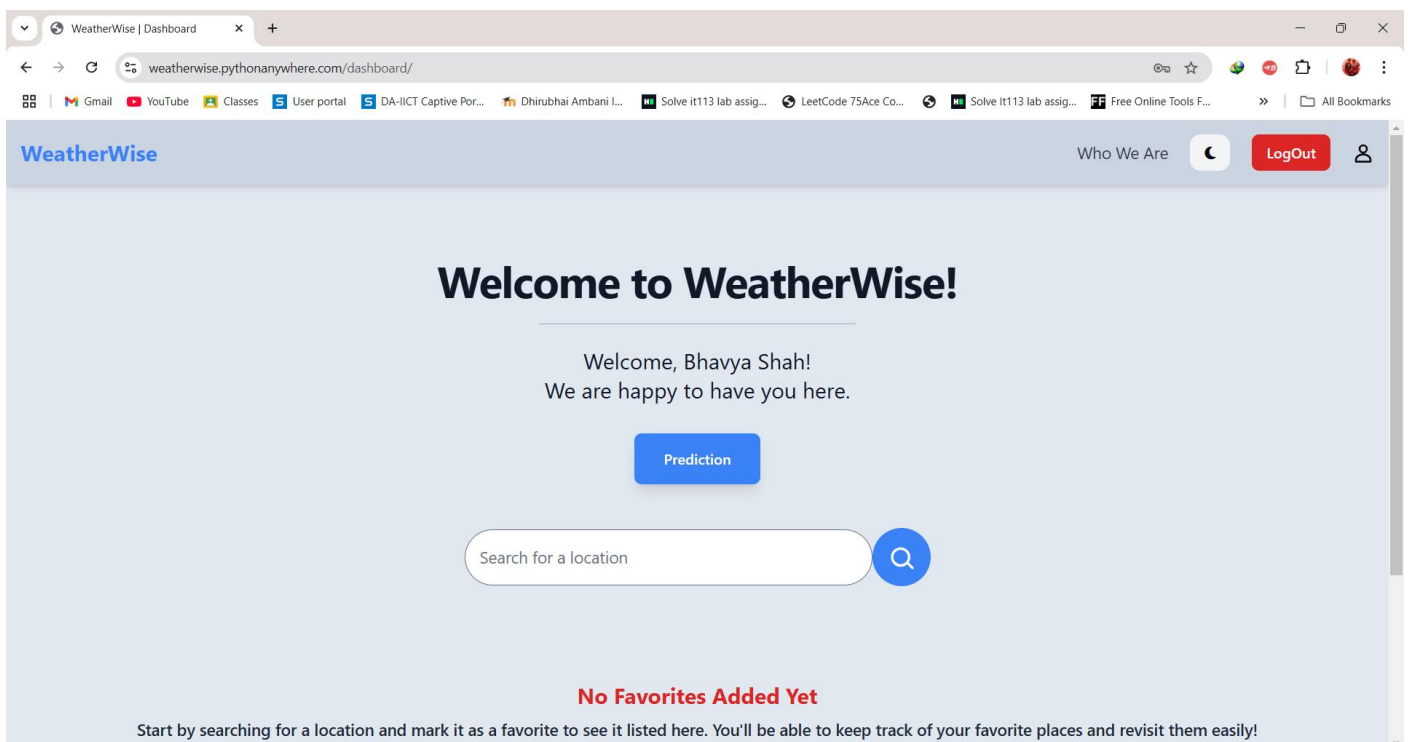
Output: **Correct**



The screenshot shows the 'Signup with WeatherWise' page. The browser's address bar displays 'weatherwise.pythonanywhere.com/signup/'. The page has a light blue background. The form fields are as follows:

- Username:** A text input field containing 'BhavyaS'.
- Email:** A text input field containing 'amar.t@gmail.com'.
- First Name:** A text input field containing 'Bhavya'.
- Last Name:** A text input field containing 'Shah'.
- Password:** A password input field with masked characters '.....'.
- Confirm Password:** A password input field with masked characters '.....'.

Below the form is a blue 'Register' button. At the bottom of the page, there is a link: 'Already have an account? [Login](#)'.



The screenshot shows the 'WeatherWise | Dashboard' page. The browser's address bar displays 'weatherwise.pythonanywhere.com/dashboard/'. The page has a light blue background. The header includes the 'WeatherWise' logo on the left, and 'Who We Are', a moon icon, a 'LogOut' button, and a user icon on the right.

The main content area features a large heading 'Welcome to WeatherWise!' followed by a subtitle 'Welcome, Bhavya Shah! We are happy to have you here.' Below this is a blue 'Prediction' button.

At the bottom, there is a search bar with the placeholder text 'Search for a location' and a magnifying glass icon. Below the search bar, a red message states: 'No Favorites Added Yet'. At the very bottom, a small text line reads: 'Start by searching for a location and mark it as a favorite to see it listed here. You'll be able to keep track of your favorite places and revisit them easily!'.

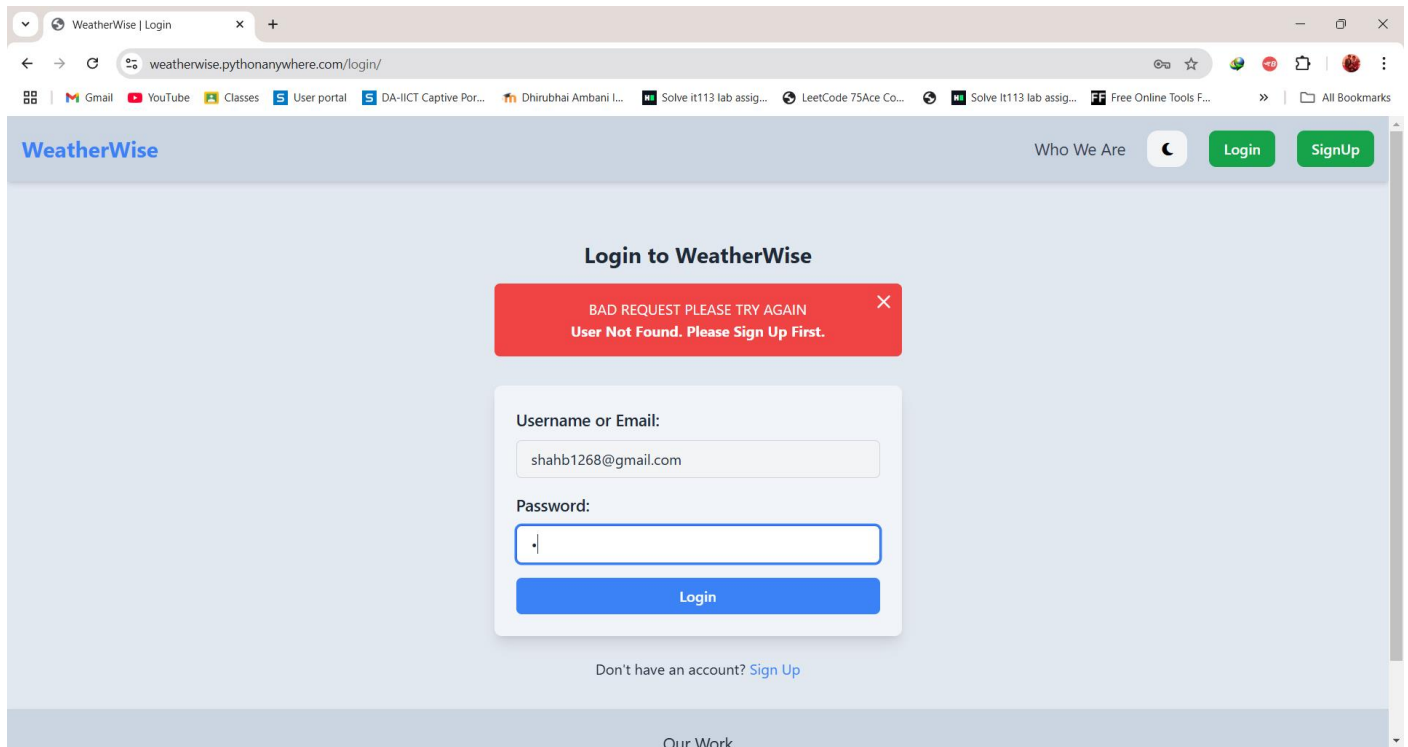
2. Log in

Test: 1

Email: Bhavya_Shah

password: A

Output: Invalid



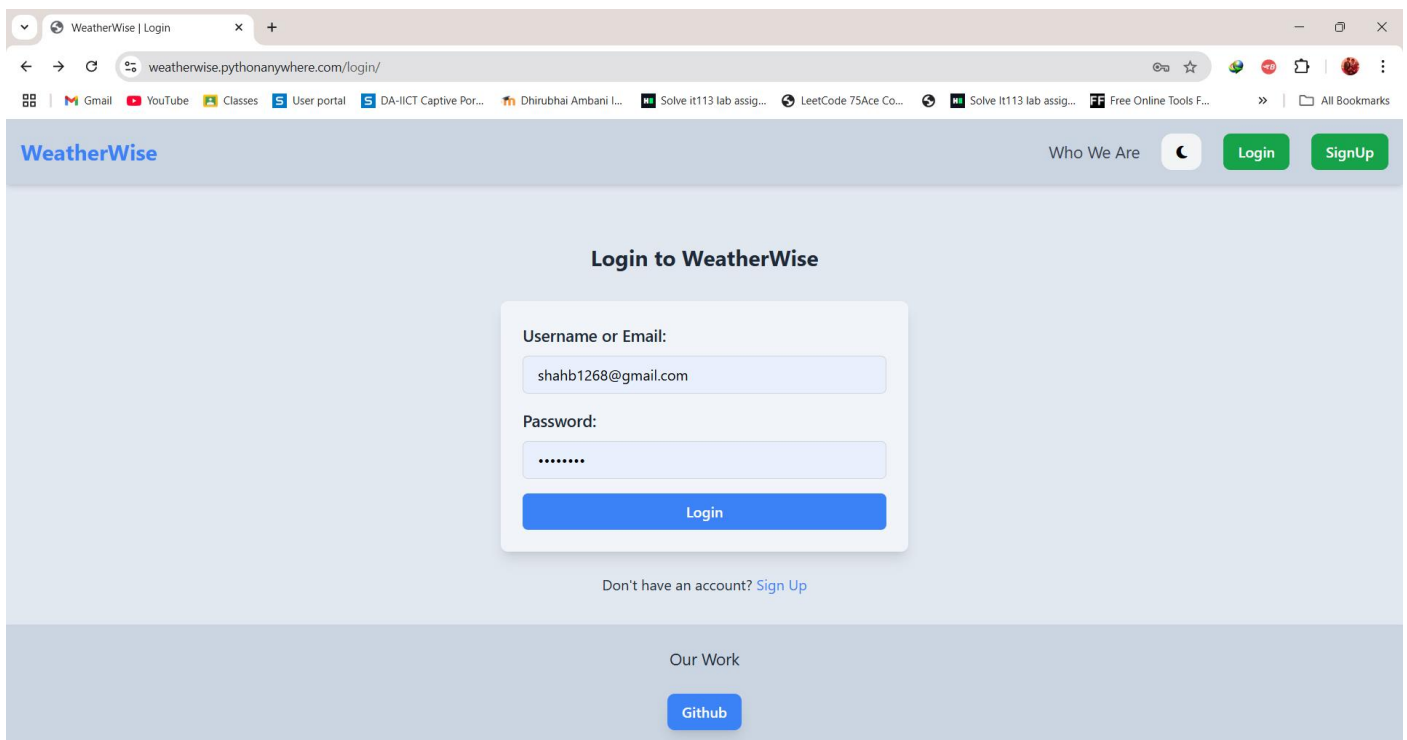
The screenshot shows the WeatherWise login page. At the top, there's a navigation bar with the WeatherWise logo, a 'Who We Are' link, a moon icon, and 'Login' and 'SignUp' buttons. The main heading is 'Login to WeatherWise'. Below it, a red error box displays the message: 'BAD REQUEST PLEASE TRY AGAIN User Not Found. Please Sign Up First.' with a close button. The login form contains two input fields: 'Username or Email:' with the value 'shahb1268@gmail.com' and 'Password:' with a single character. A blue 'Login' button is at the bottom of the form. Below the form, there's a link: 'Don't have an account? Sign Up'. At the very bottom, there's a footer with the text 'Our Work'.

Test: 2

Email: shahb1268@gmail.com

Password: Rishi123

Output: Valid



The screenshot shows the WeatherWise login page. The navigation bar is the same as in the first screenshot. The main heading is 'Login to WeatherWise'. The login form has the 'Username or Email:' field filled with 'shahb1268@gmail.com' and the 'Password:' field filled with 'Rishi123'. A blue 'Login' button is at the bottom of the form. Below the form, there's a link: 'Don't have an account? Sign Up'. At the very bottom, there's a footer with the text 'Our Work' and a 'Github' button.

3. Edit Profile

Test: 1

First name: Bhavya

Last name: Shah

Email: acb@

Username:

Bhavya_Shah

Output: Invalid

The screenshot shows a web browser window with the URL `weatherwise.pythonanywhere.com/profile/edit/`. The page title is "WeatherWise | Edit Profile". The form is titled "Edit Profile" and contains the following fields and values:

- Username: Bhavya_Shah
- Email: acb@
- First Name: (empty, with a validation error message: "Please enter a part following '@'.' 'abc@' is incomplete.")
- Last Name: Shah
- Receive Notifications: ☐
- Preferred Location: (empty)

At the bottom of the form are two buttons: "Save Changes" (green) and "Cancel" (red).

Test: 2

First name: Bhavya

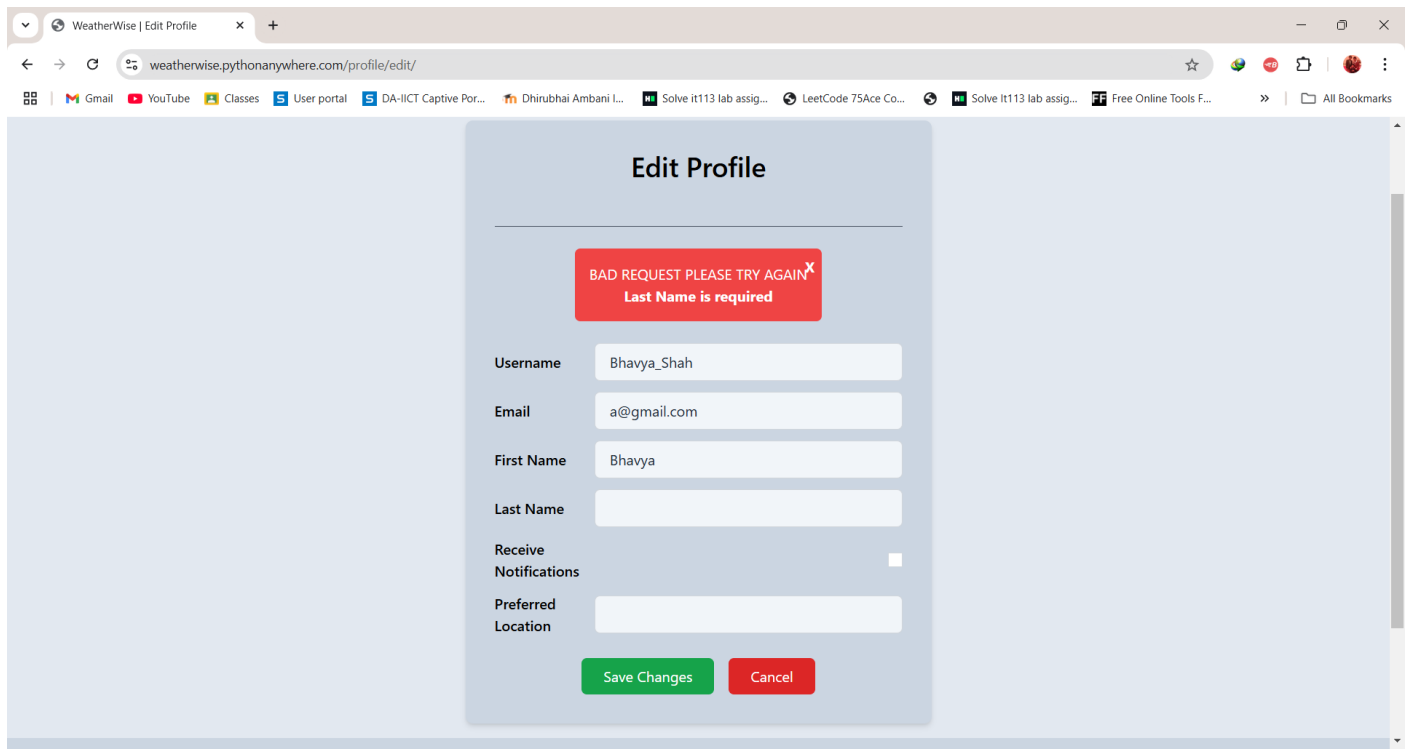
Last name: Blank

Email: a@gmail.com

Username:

Bhavya_Shah

Output: Invalid



Test: 3

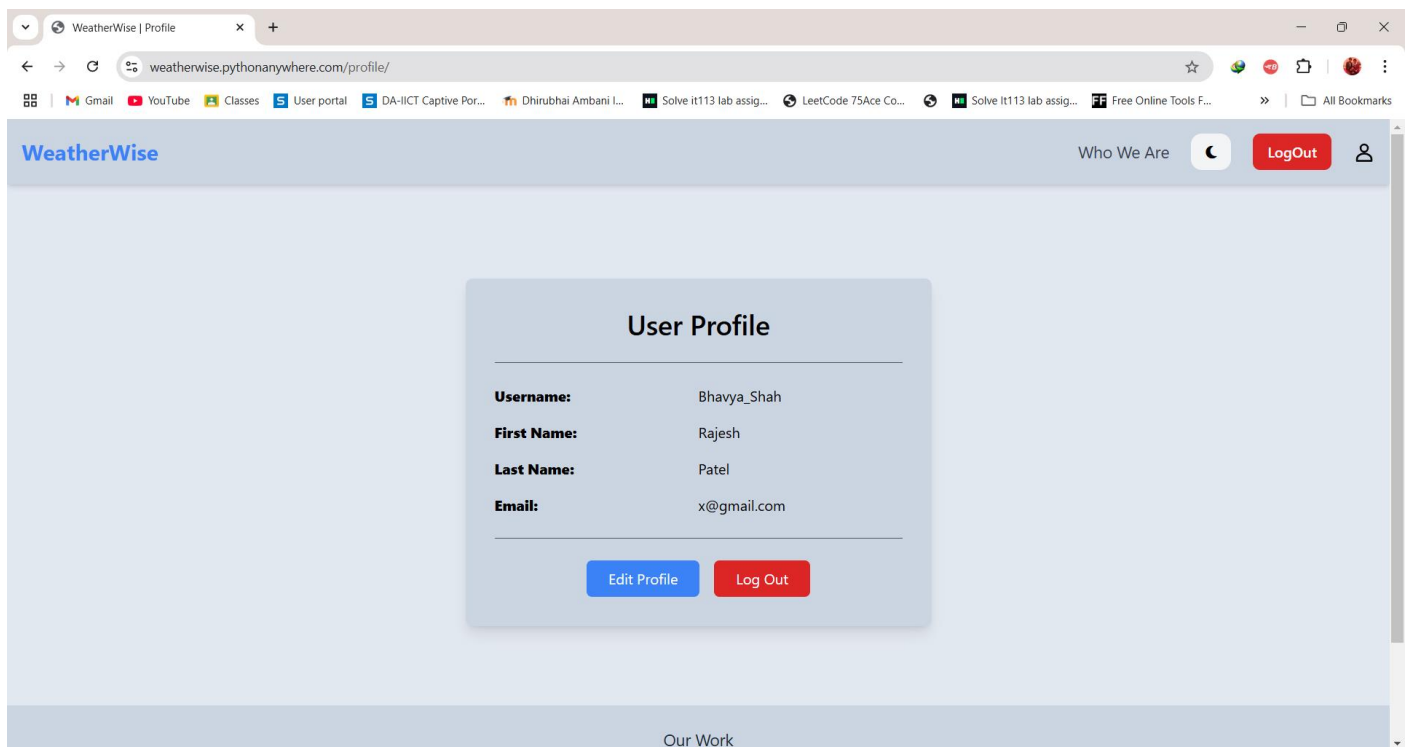
First name: Rajesh

Last name: Patel

Email: x@gmail.com

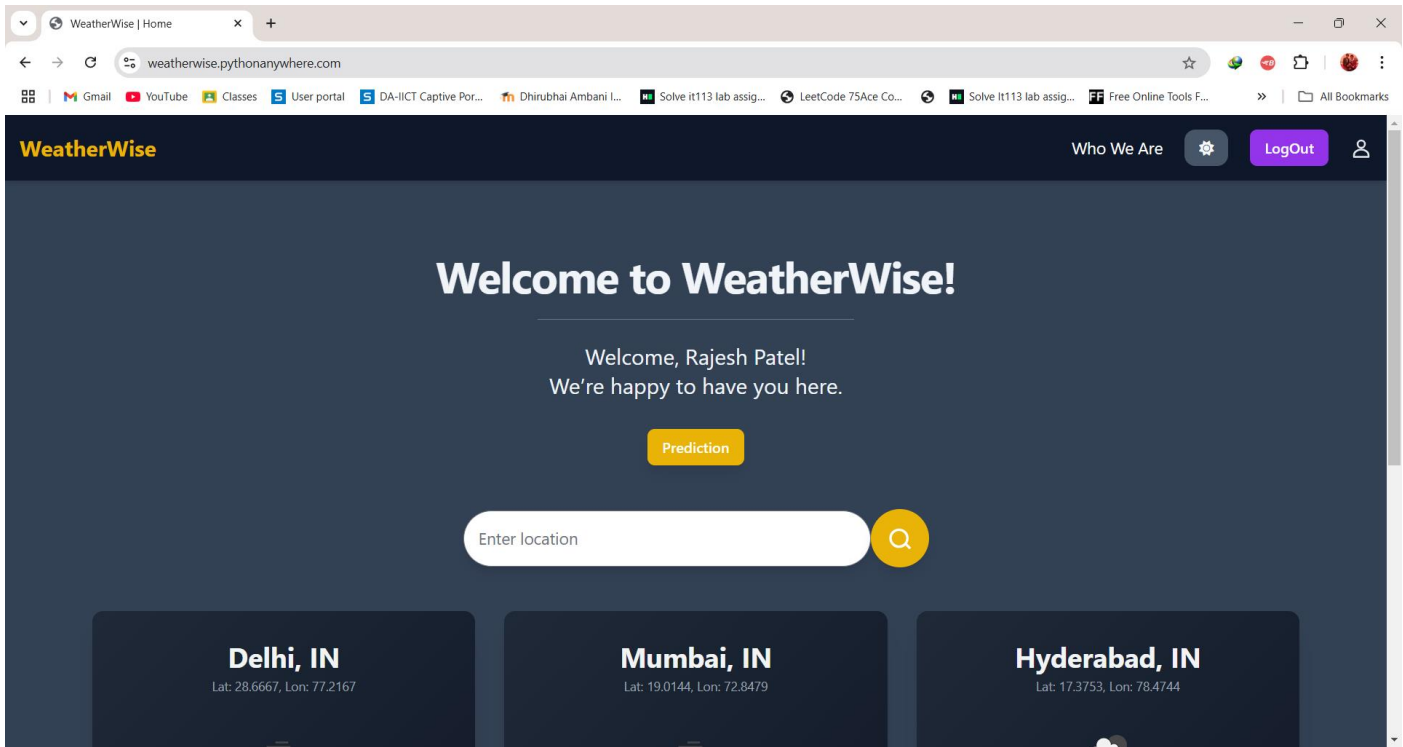
Username: Bhavya3604

Output: Valid

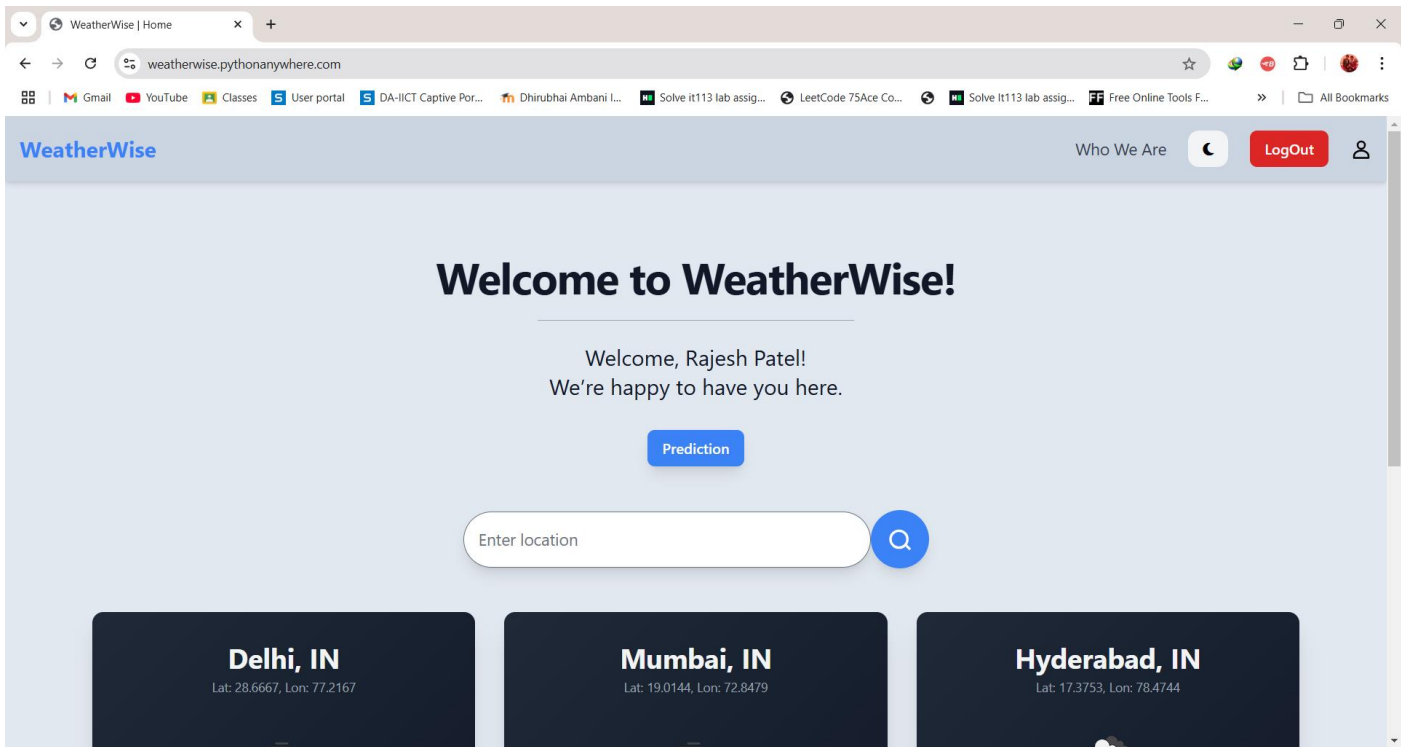


4. Dark Mode:

Test: 1
Dark Mode: On



Test: 2
Dark Mode: Off

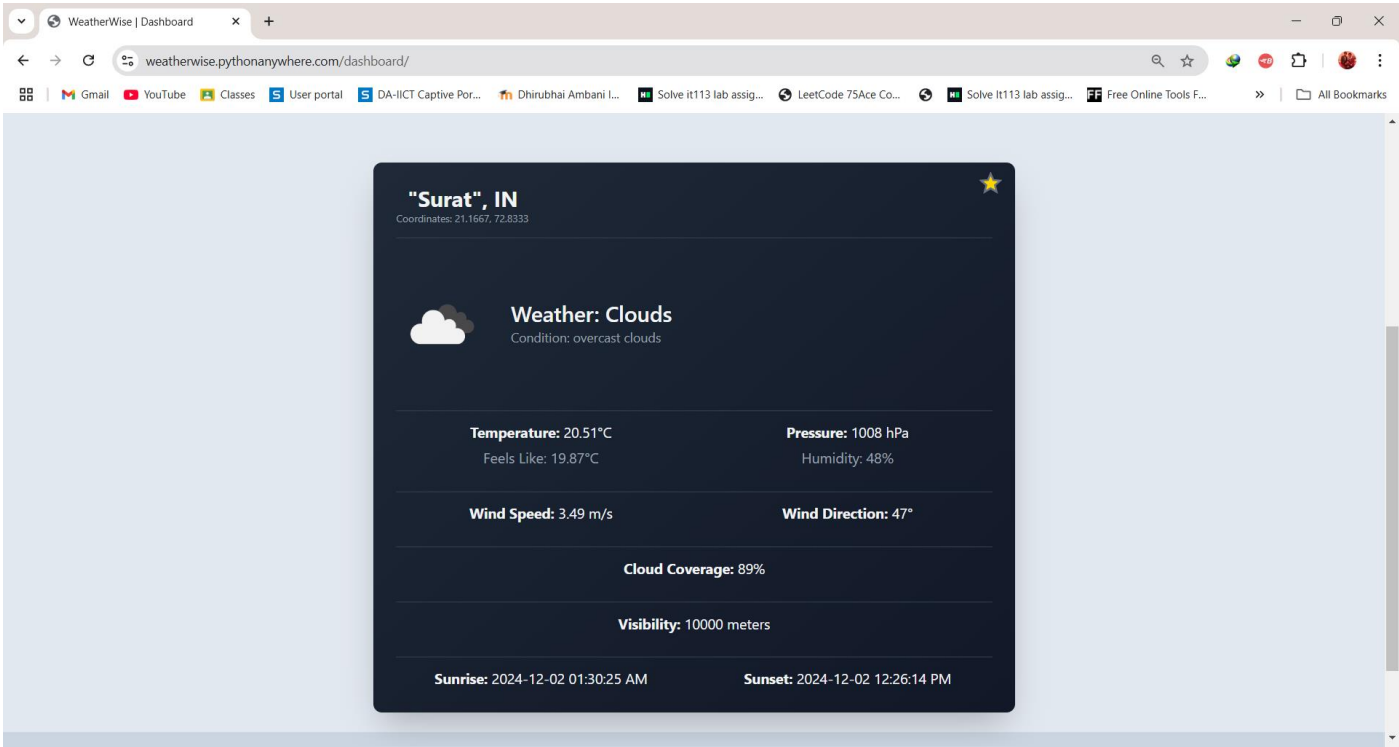


5. Location

Test: 1

Location: Surat

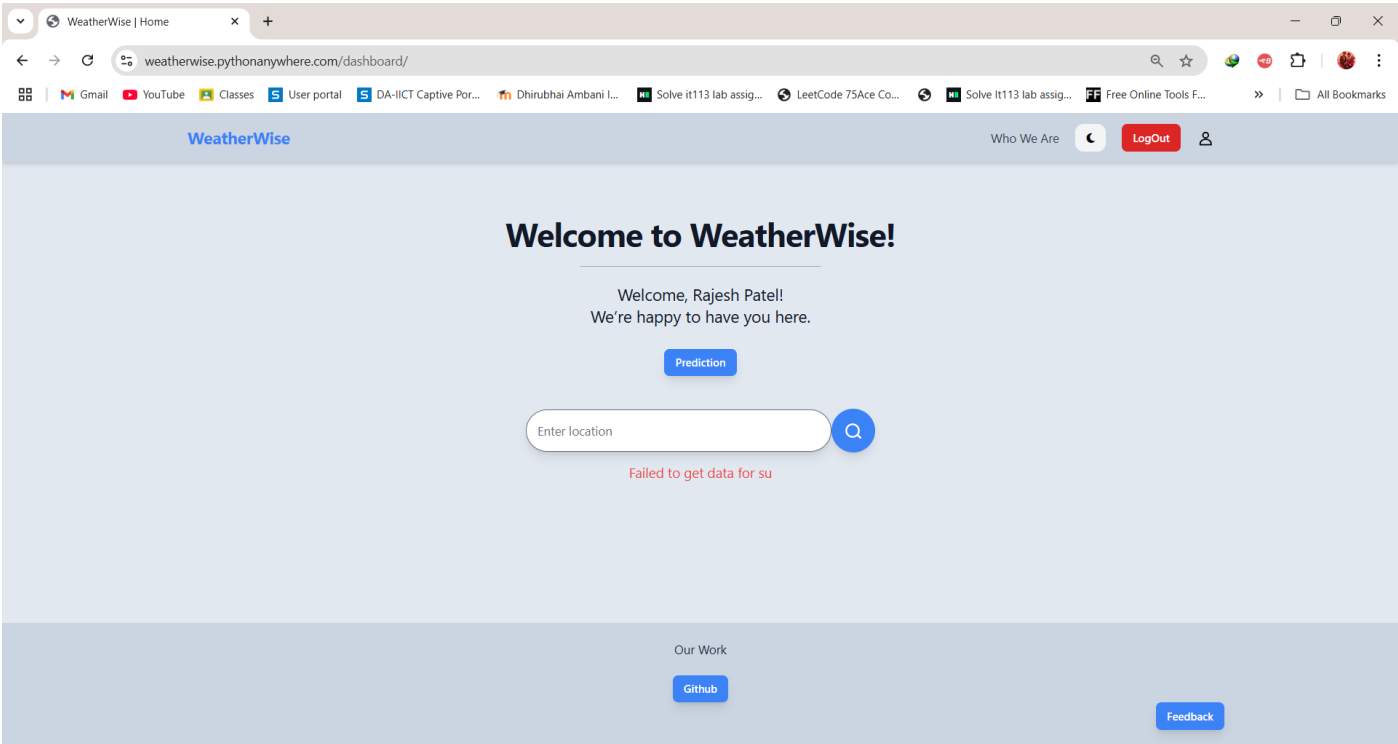
Output: Valid



Test: 2

Location: Su

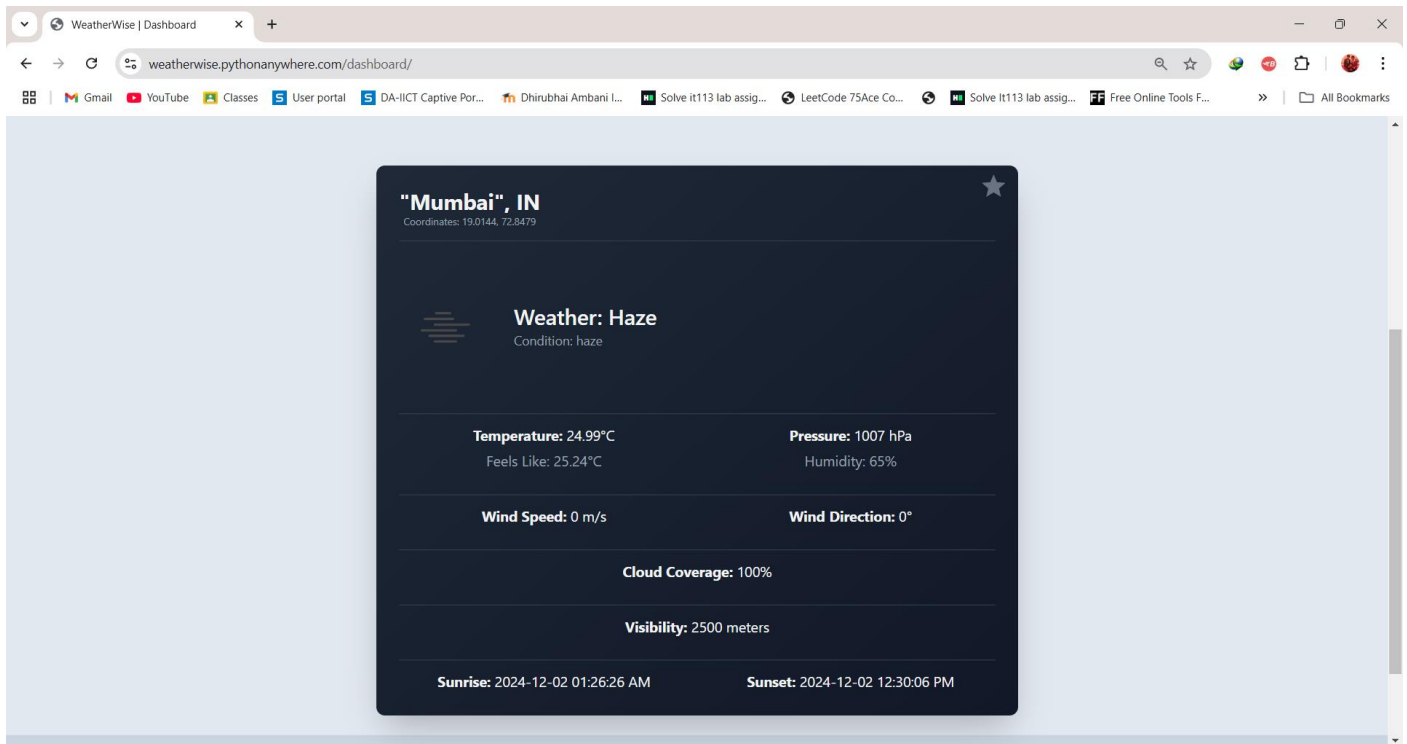
Output: Invalid



Test: 3

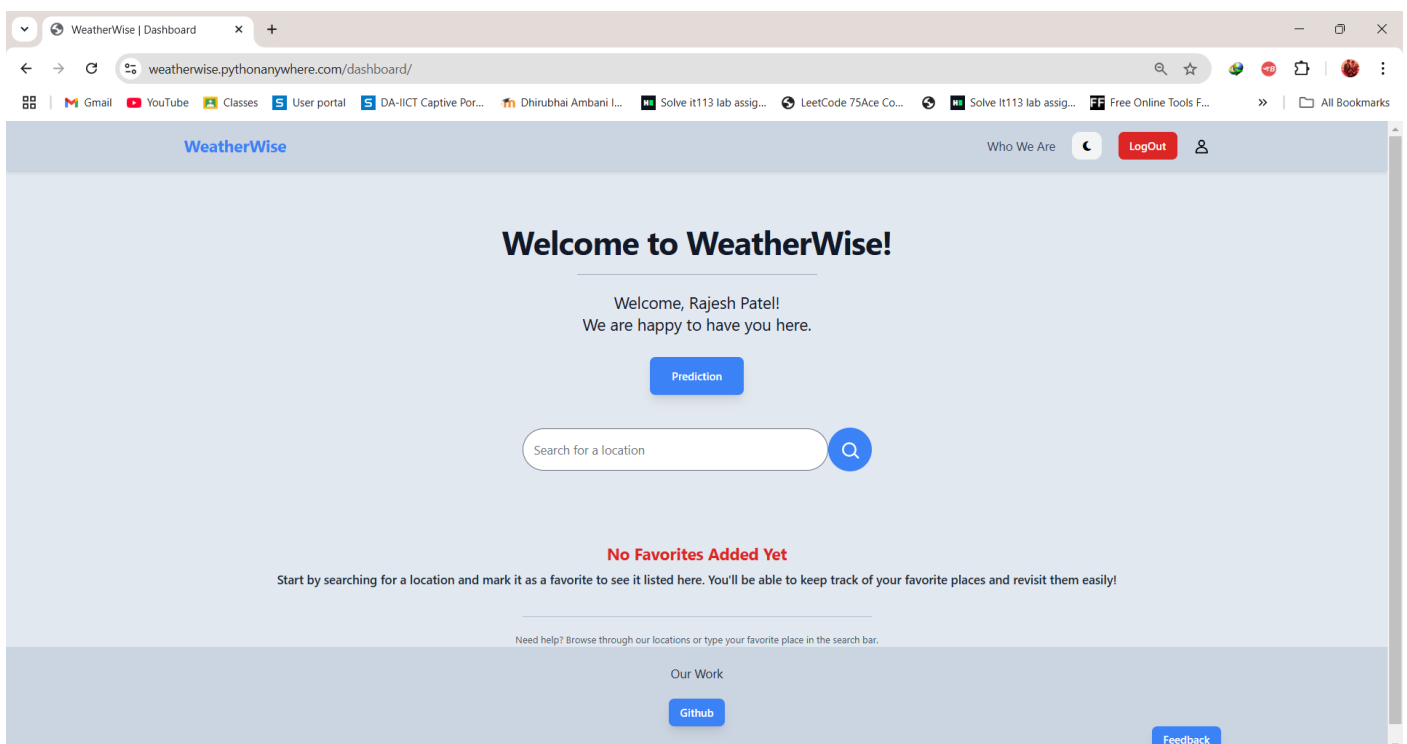
Location: Bombay

Output: Valid



6. Adding Favorites:

When Favorite Location is not set



After Adding a location to the Favorite:

