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 isconsidered 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 isalready stored in database)

Equivalence class partitioning:
Note: Each attribute of the equivalence table which satisfies their constraints isconsidered 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

		valid	invalid	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 isconsidered
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'tbe NULL
abc		abc	abc@gmail.com	fail	fail	Last name can'tbe 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 isconsidered
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	Expecte d 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:
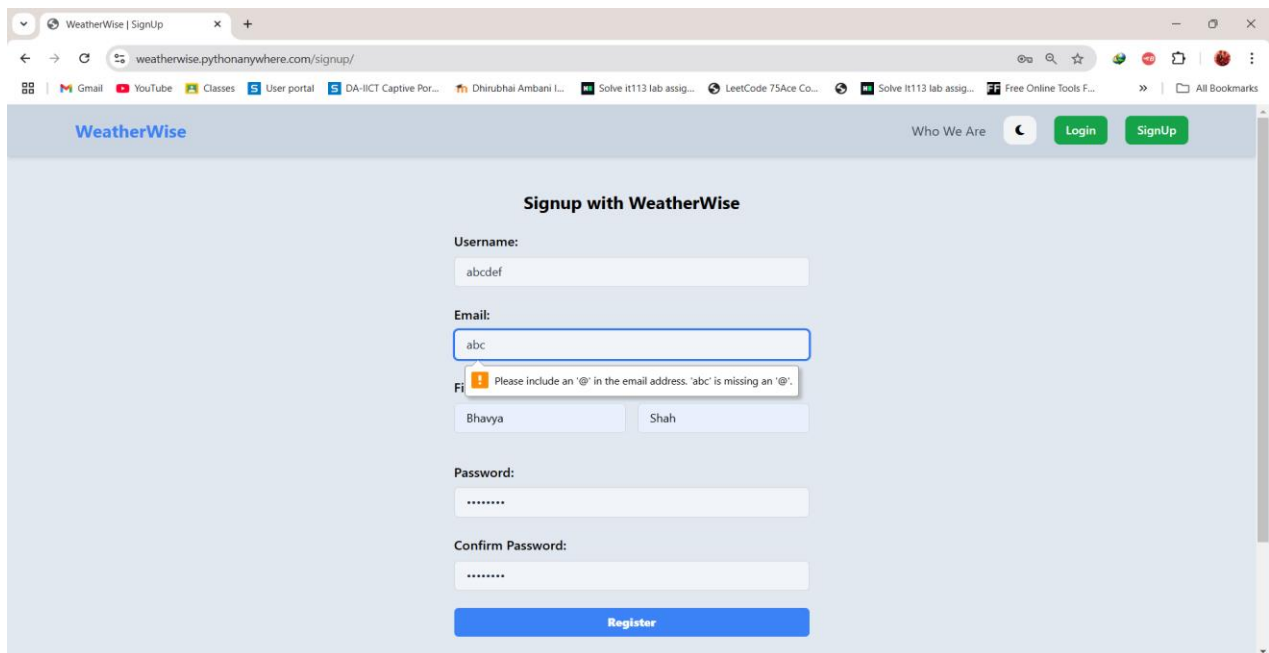
Test: 1
Email: abc
password: Abcd@123
First Name: Bhavya
Last Name: Shah
Output: Invalid
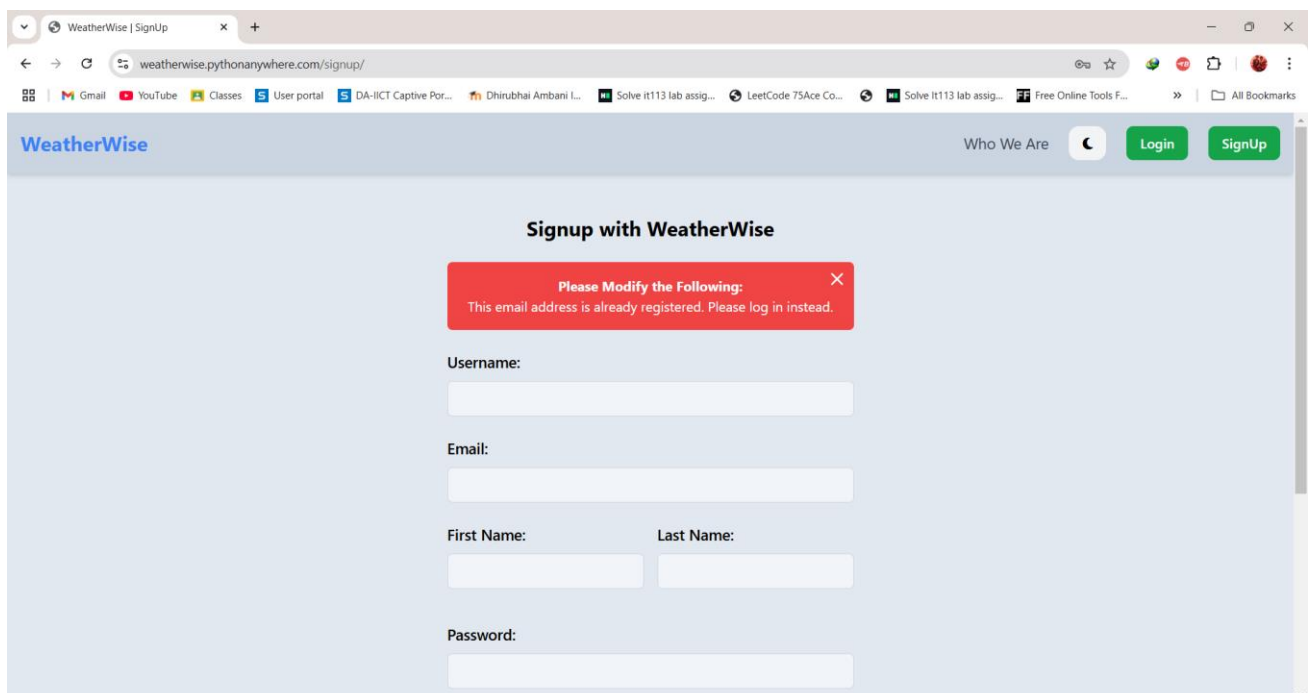
Test: 2
Email: adit@gmail.com
password: Abcd@123
Output: Invalid
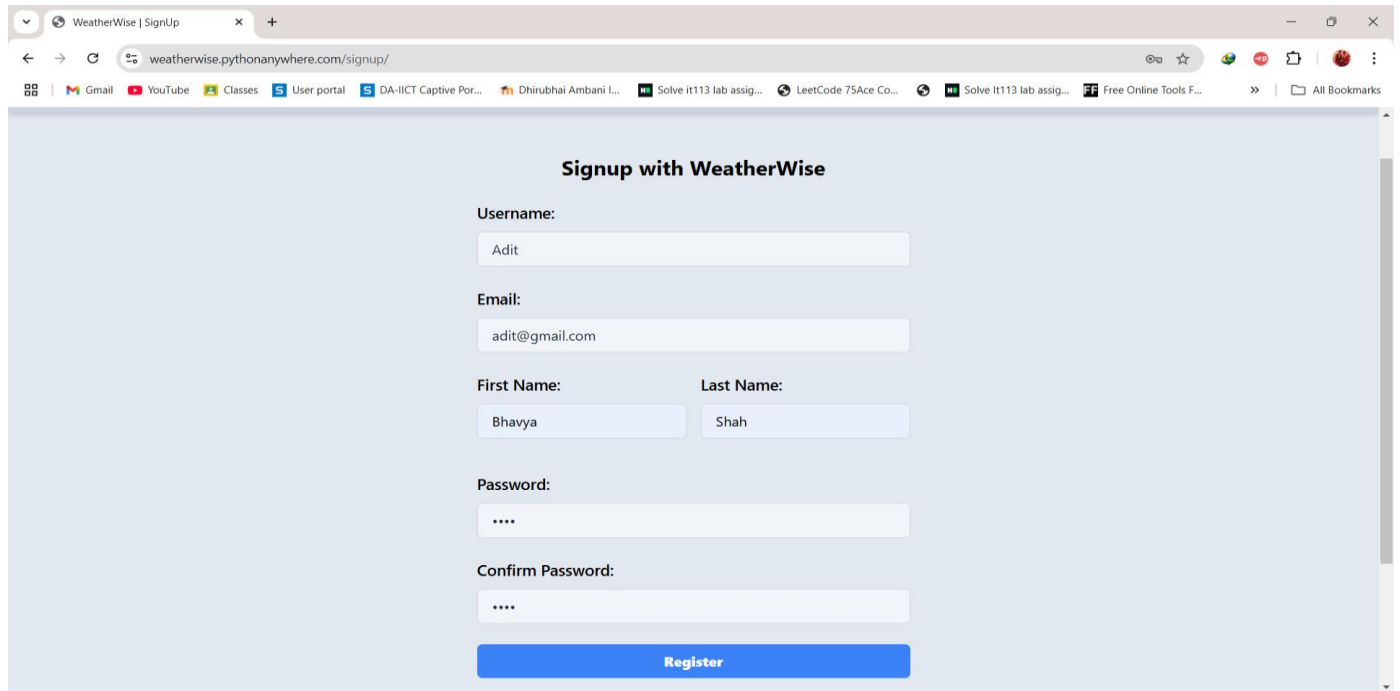
Test: 3
Email: adit@gmail.comPassword:
Abcd
First Name: Bhavya
Last Name: Shah
Output: Invalid
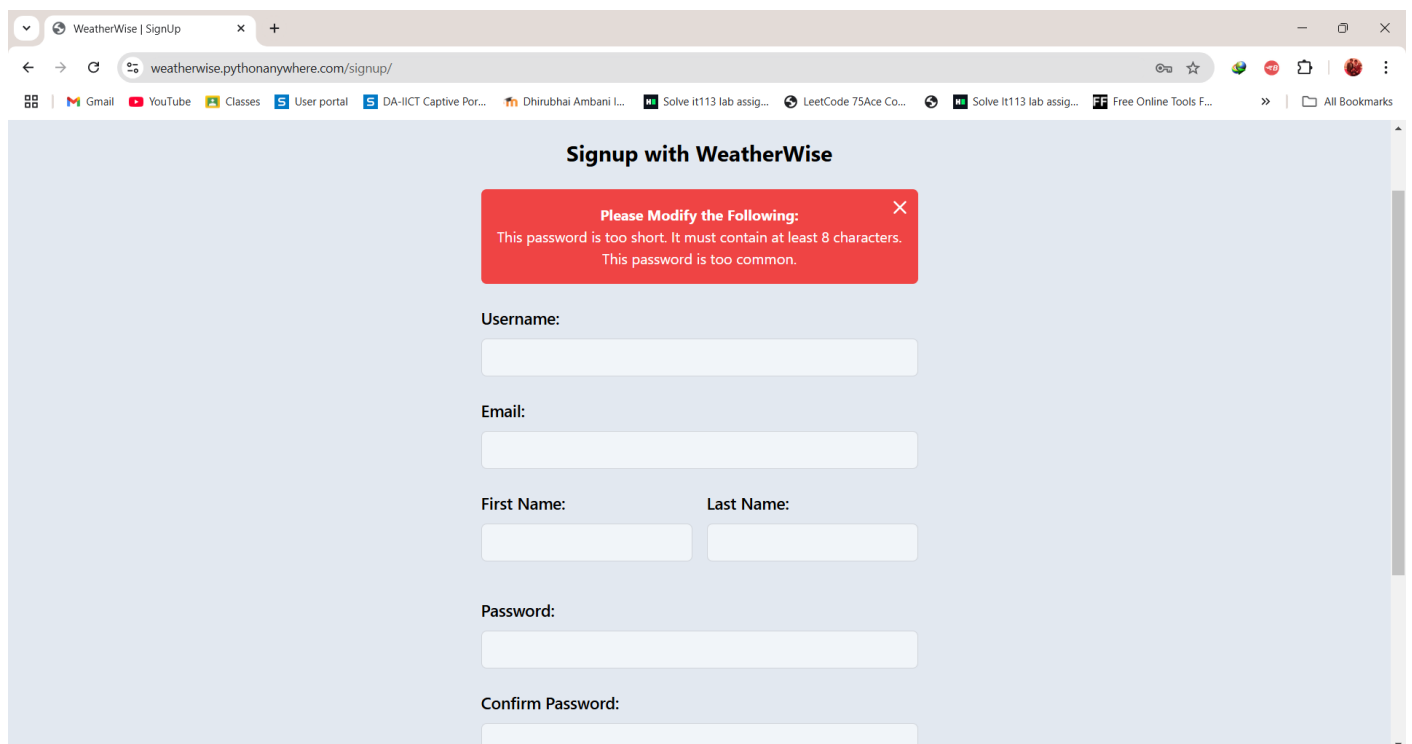
Test: 4
Email: amar.t@gmail.compassword:
Rishi123
First Name: Bhavya
Last Name: Shah
Username: BhavyaS
Output: **Correct**
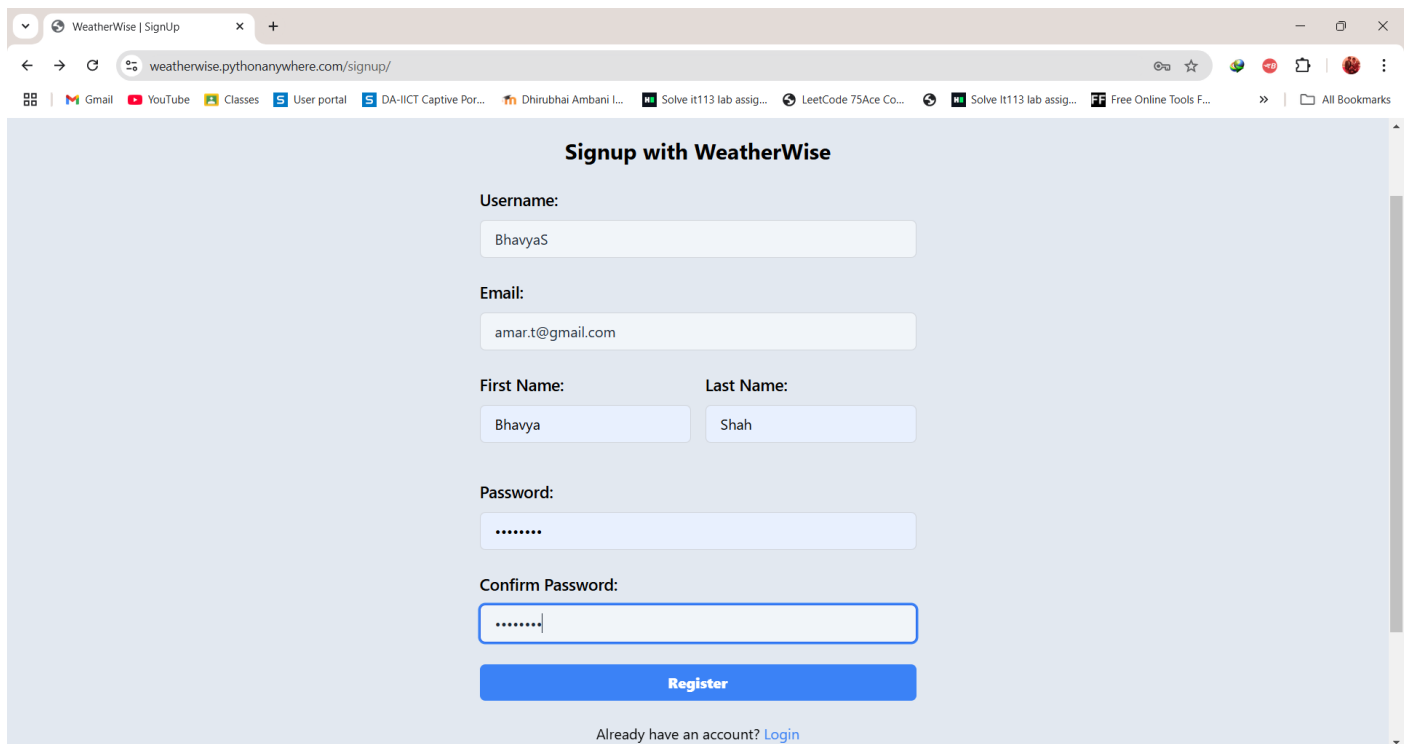
2. Log in

Test: 1
Email: Bhavya_Shah
password: A
Output: Invalid
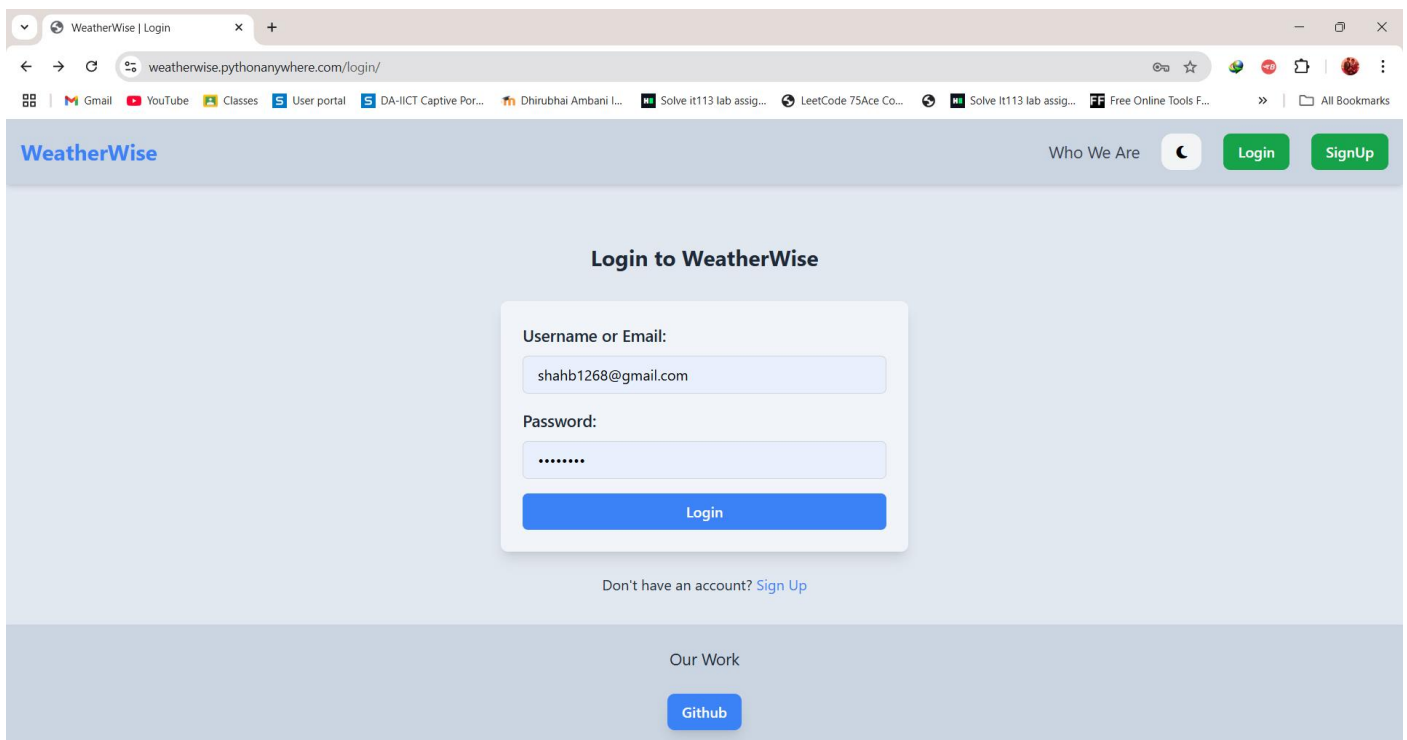
Test: 2
Email: shahb1268@gmail.com
Password: Rishi123
Output: Valid

3. Edit Profile

Test: 1
First name: Bhavya
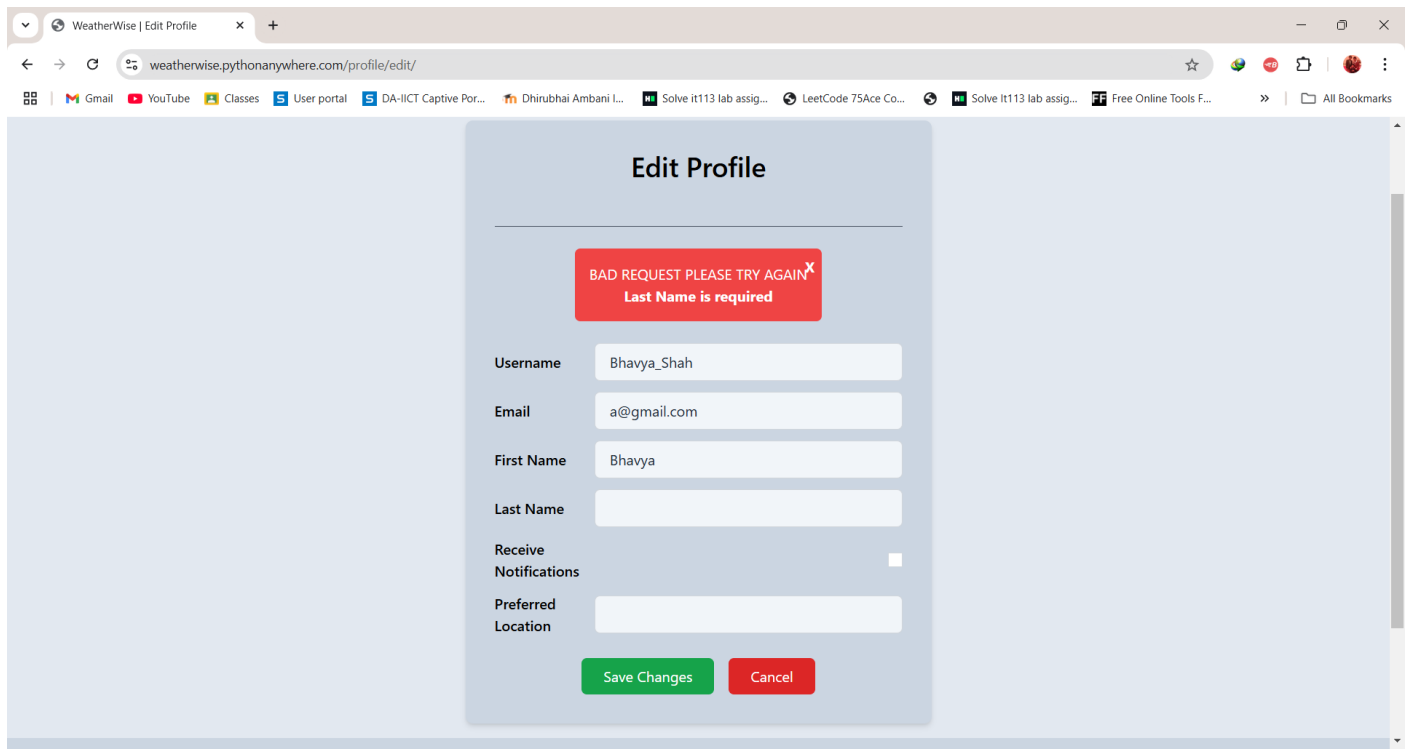Last name: Shah
Email: acb@
Username:
Bhavya_Shah
Output: Invalid

Test: 2
First name: Bhavya
Last name: Blank
Email:a@gmail.com
Username:
Bhavya_Shah
Output: Invalid

Edit Profile

BAD REQUEST PLEASE TRY AGAIN X
**Last Name is required**

Username	Bhavya_Shah
Email	a@gmail.com
First Name	Bhavya
Last Name	
Receive Notifications	☐
Preferred Location	

[Save Changes] [Cancel]

Test: 3
  First name: Rajesh
  Last name: Patel
  Email:x@gmail.com
  Username: Bhavya3604
  Output: Valid

WeatherWise   Who We Are   🌙   LogOut   👤

User Profile

Username:	Bhavya_Shah
First Name:	Rajesh
Last Name:	Patel
Email:	x@gmail.com

[Edit Profile] [Log Out]
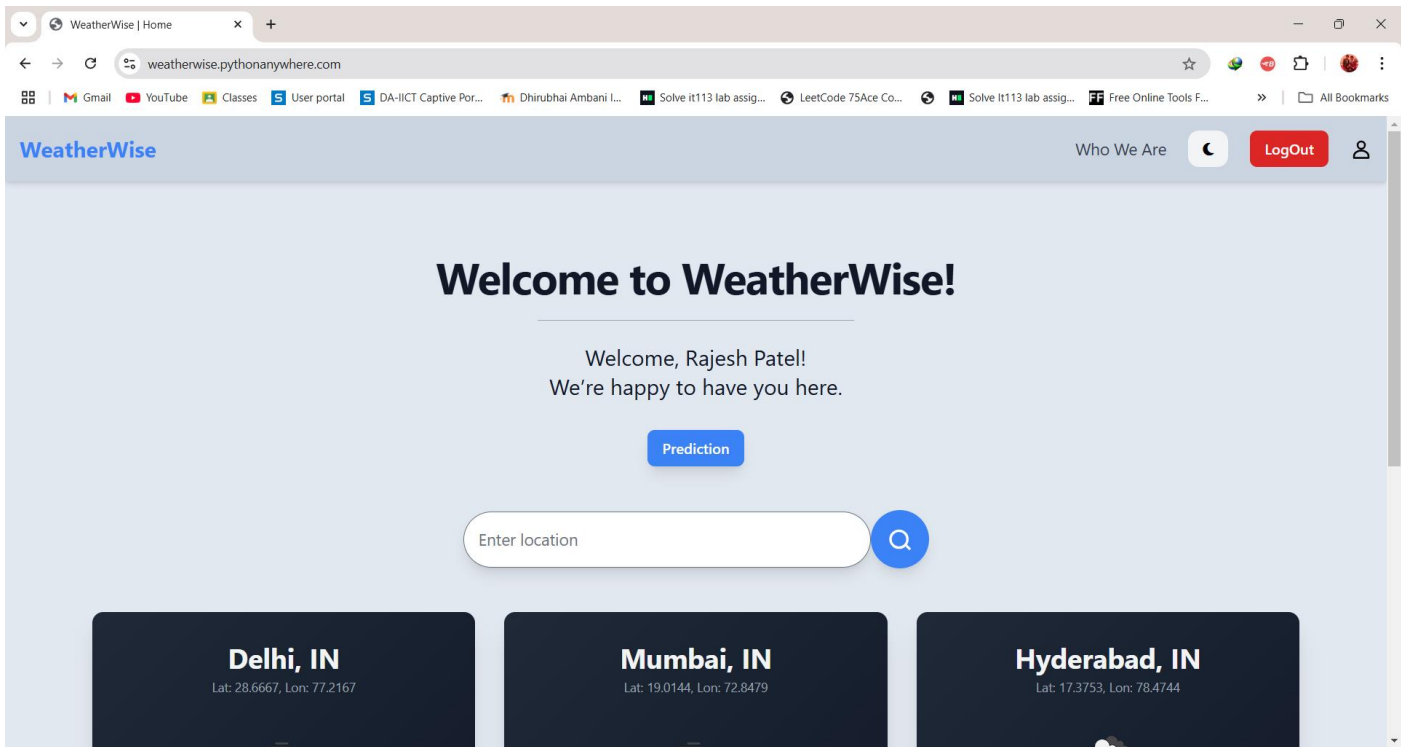
Our Work
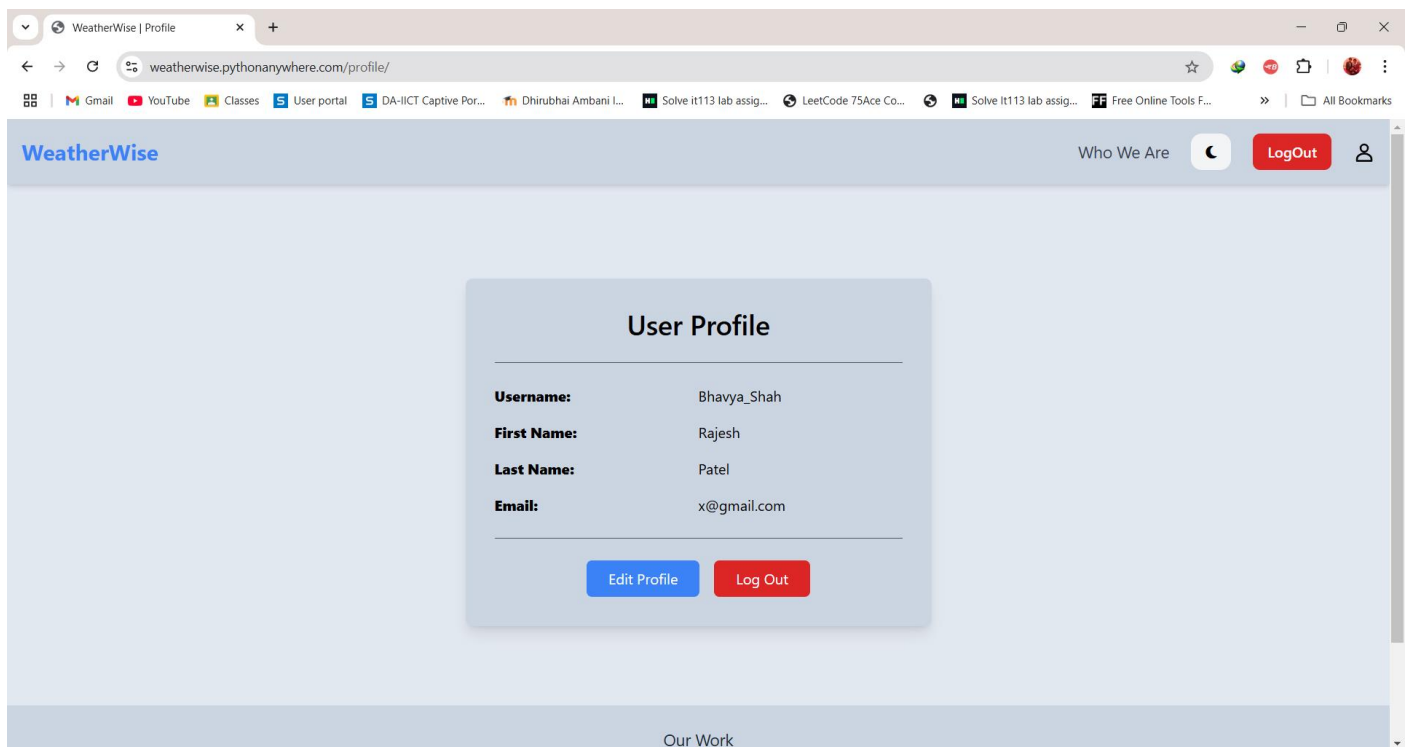
4. Dark Mode:

Test: 1
Dark Mode: On
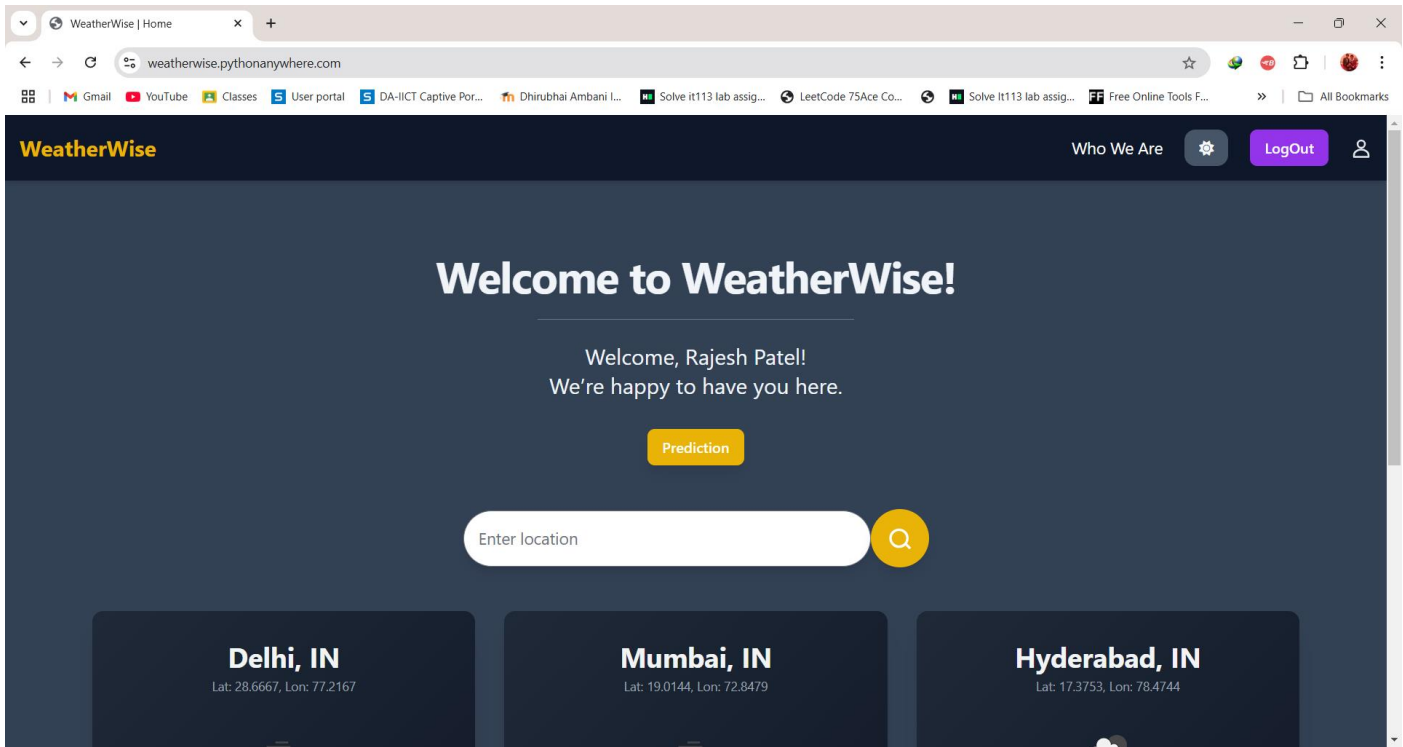
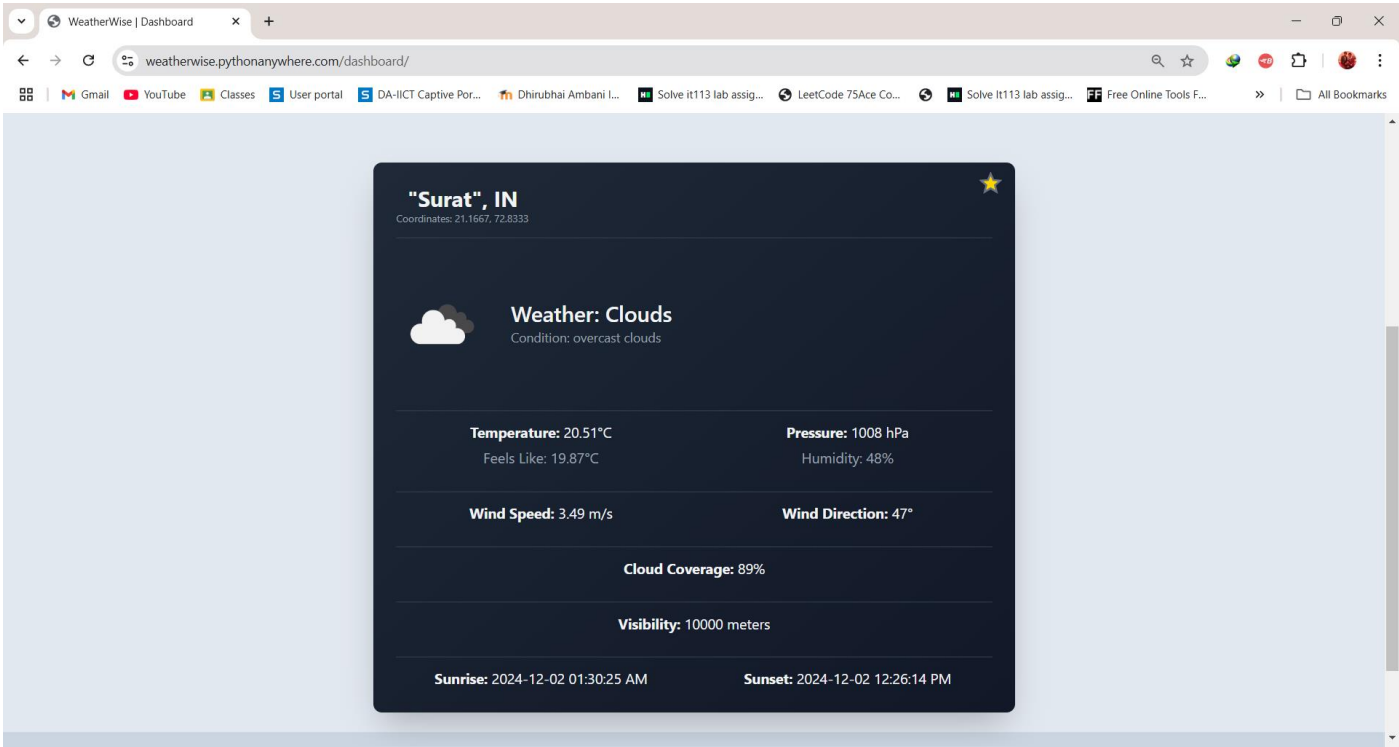Test: 2
Dark Mode: Off

5. Location
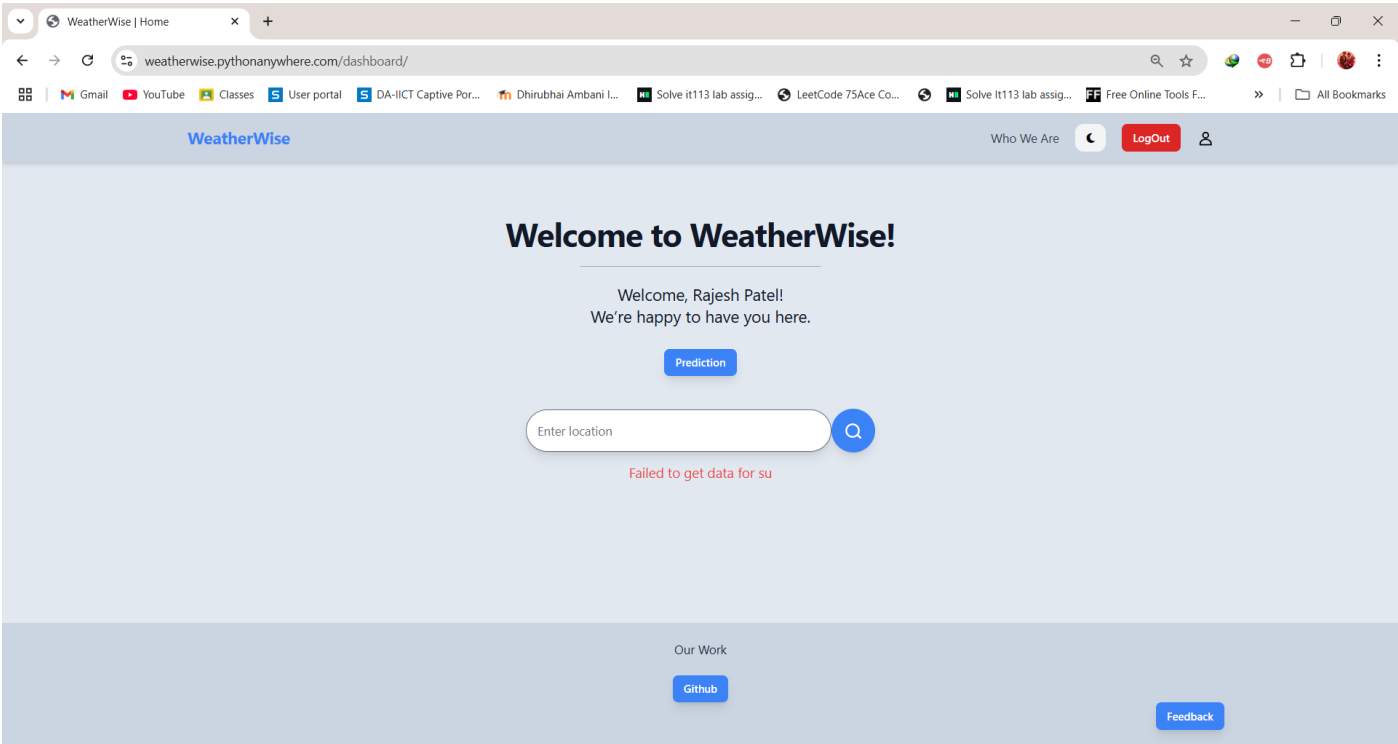
Test: 1

Location: Surat

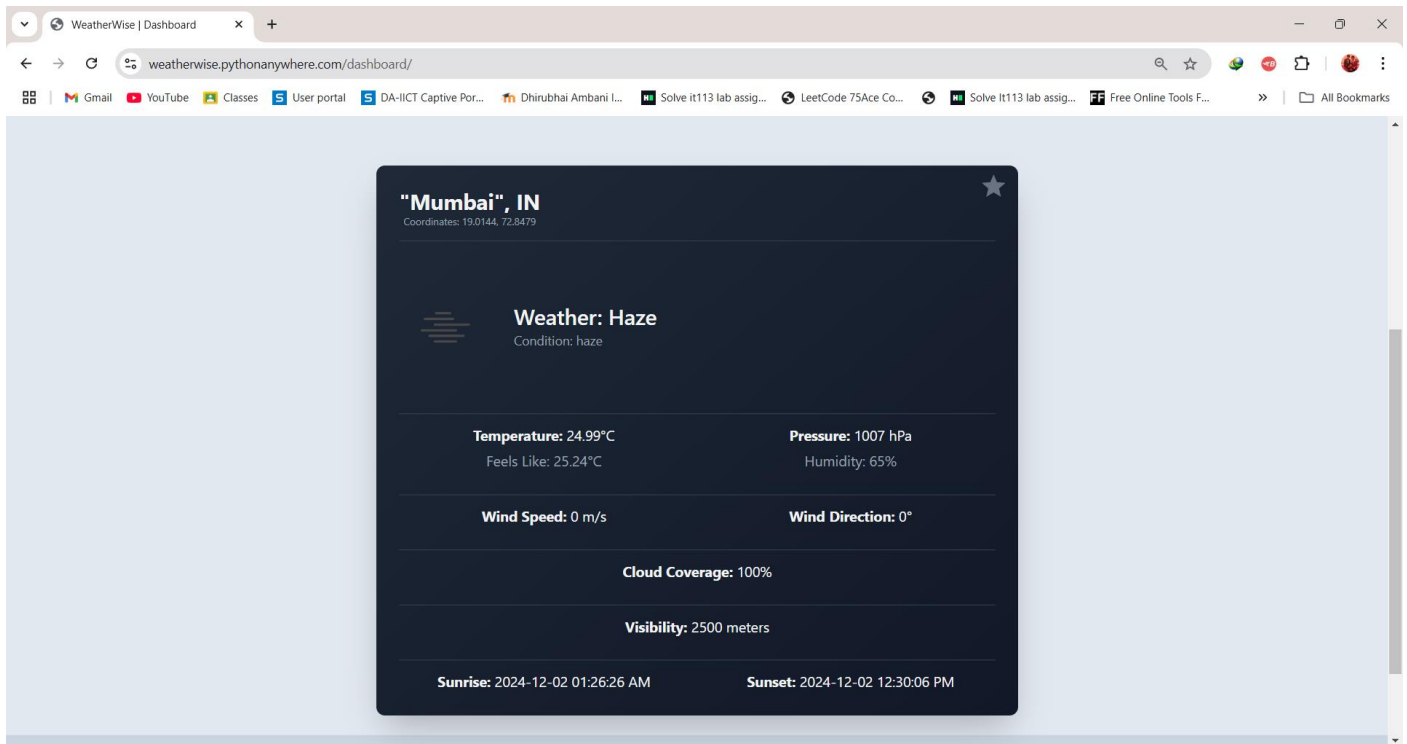Output: Valid

Test: 2

Location: Su
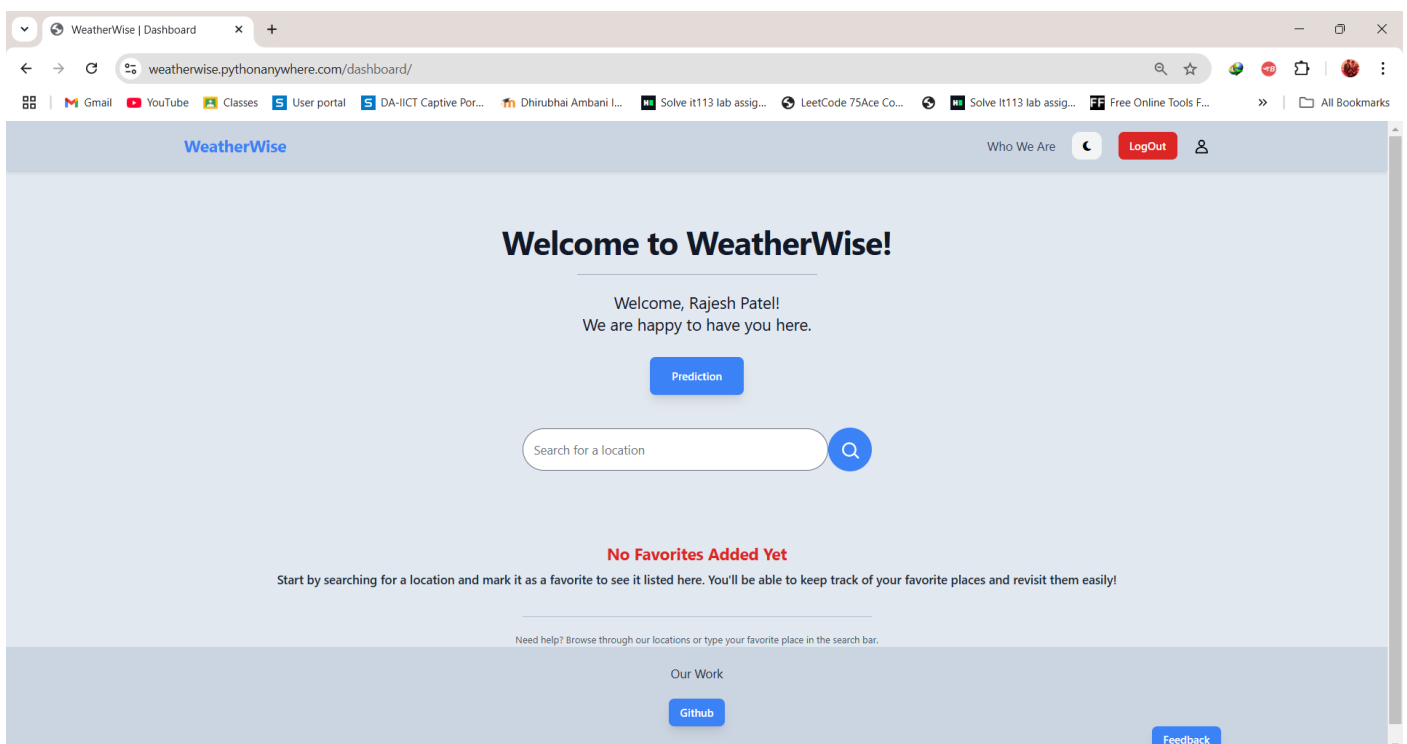
Output: Invalid

Test: 3

Location: Bombay

Output: Valid

6. Adding Favorites:

When Favorite Location is not set

After Adding a location to the Favorite: