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.
Characters Constraints (5,254)

Password constraints:
Password must contain capital letter [A-Z]
must contain between 8-128 characters

Password confirmation:
Must be the same as Password.

Username Constraints:
Characters length 3-30.
Should not already be registered.

First and Last Name:
Characters Length 2-50.

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	First Name	Last Name	Password	Confirm Password	Result
E1	valid	valid	valid	valid	valid	success
E2	invalid	valid	valid	valid	valid	error
E3	valid	valid	valid	invalid	valid	error
E4	valid	valid	valid	valid	invalid	error
E5	valid	valid	valid	invalid	invalid	error
E6	invalid	invalid	invalid	valid	valid	error
E7	invalid	valid	invalid	invalid	valid	error
E8	invalid	invalid	valid	invalid	invalid	error

Boundary value analysis:

E-mail	First Name	Last Name	Password	Confirm Password	Expected Output	Actual Output	Reason
a@	Bhavya	patel	Abcd@123	Abcd@123	fail	fail	Email constraint
@gmail.com	bhavya	shah	Abcd@123	Abcd@123	fail	fail	Email constraint
abc@gmail.com	abc	xyz	abcd@123	abcd@123	success	success	Success
abc@gmail	kbc	ciajh	Abcd@1	Abcd@1	fail	fail	Email constraint
abc@gmail.com	rishi	asdf	Abcd@123	Abcd1234	fail	fail	Password Not match
abc@gmail.com	kanishk	kunj	Abcd@123	Abcd@123	success	success	E-mail Should not be used
abc@gmail.com	ab	deff	Abcd@123	Abcd@123	success	success	First Name constraint
abc@gmail.com	ramesh	ab	Abcd@123	Abcd@123	success	success	Last Name constraint

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 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

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)
Characters Constraint 2-50
Username:
Can't be changed
Email:
Can't be changed

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	First Name	Last Name	Result
E1	valid	valid	success
E2	invalid	valid	error
E3	valid	invalid	error

		invalid	invalid	error
E4				

Boundary value analysis:

First Name	Last Name	Expected Output	Actual Output	Reason
	xy	fail	fail	First name can'tbe NULL
abc		fail	fail	Last name can'tbe NULL
abc	xy	fail	fail	Last name less than 3 characters
abc	abcd	pass	pass	-
ab	abcd	fail	fail	First name less than 3 characters
Rishi	Shah	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:
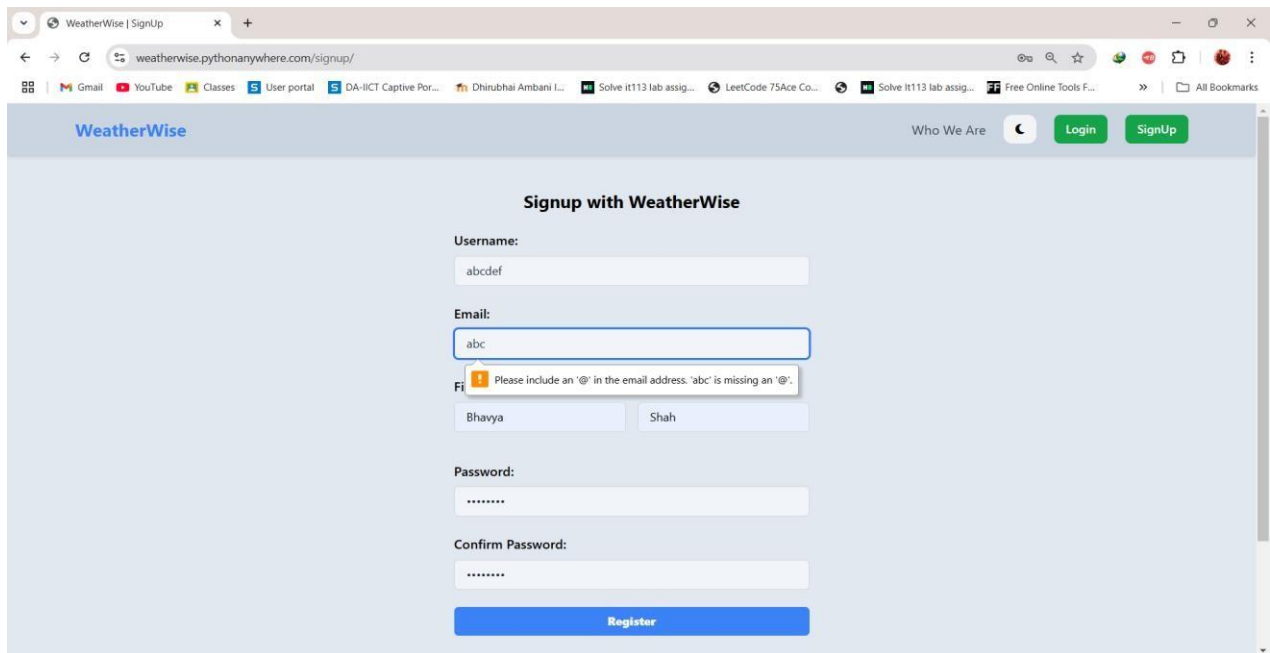
Test: 1
Email: abc
password: Abcd@123
First Name: Bhavya
Last Name: Shah
Output: Invalid
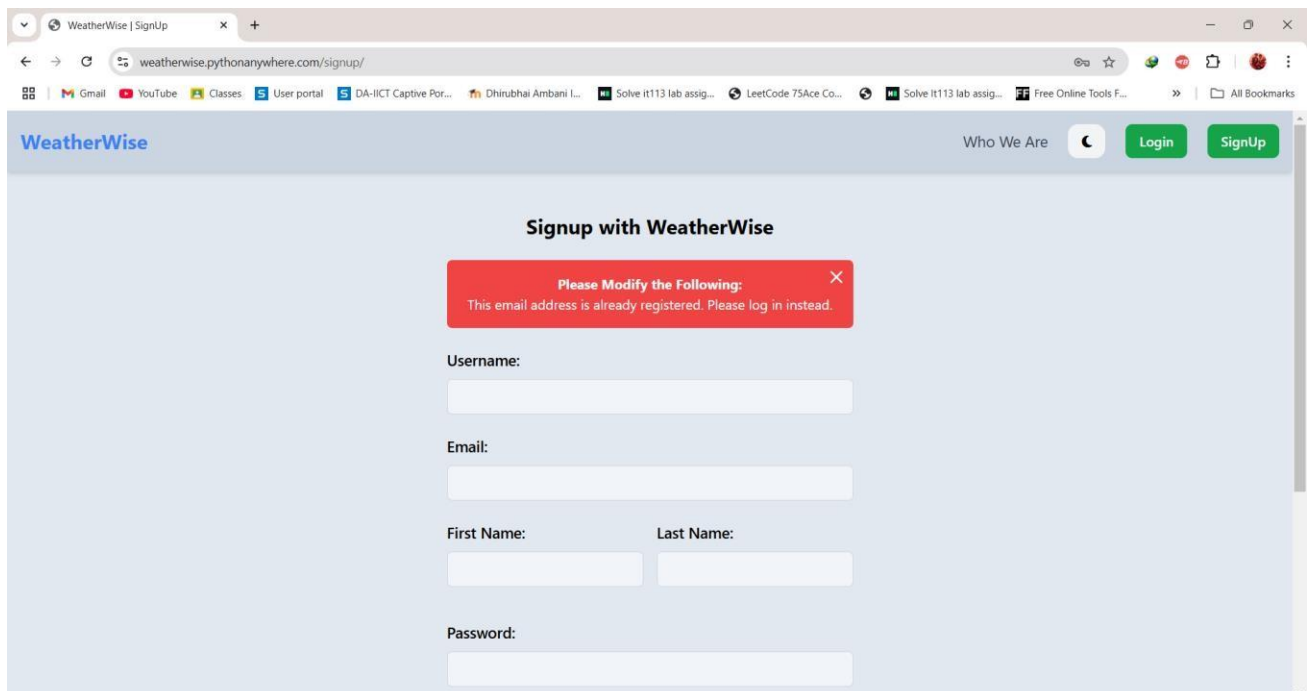
Test: 2
Email: adit@gmail.com
password: Abcd@123
Output: Invalid

Test: 3
Email: adit@gmail.com Password:
Abcd
First Name: Bhavya
Last Name: Shah
Output: Invalid

Test: 4
Email: amar.t@gmail.com password:
Rishi123
First Name: Bhavya
Last Name: Shah
Username: BhavyaS
Output: **Correct**
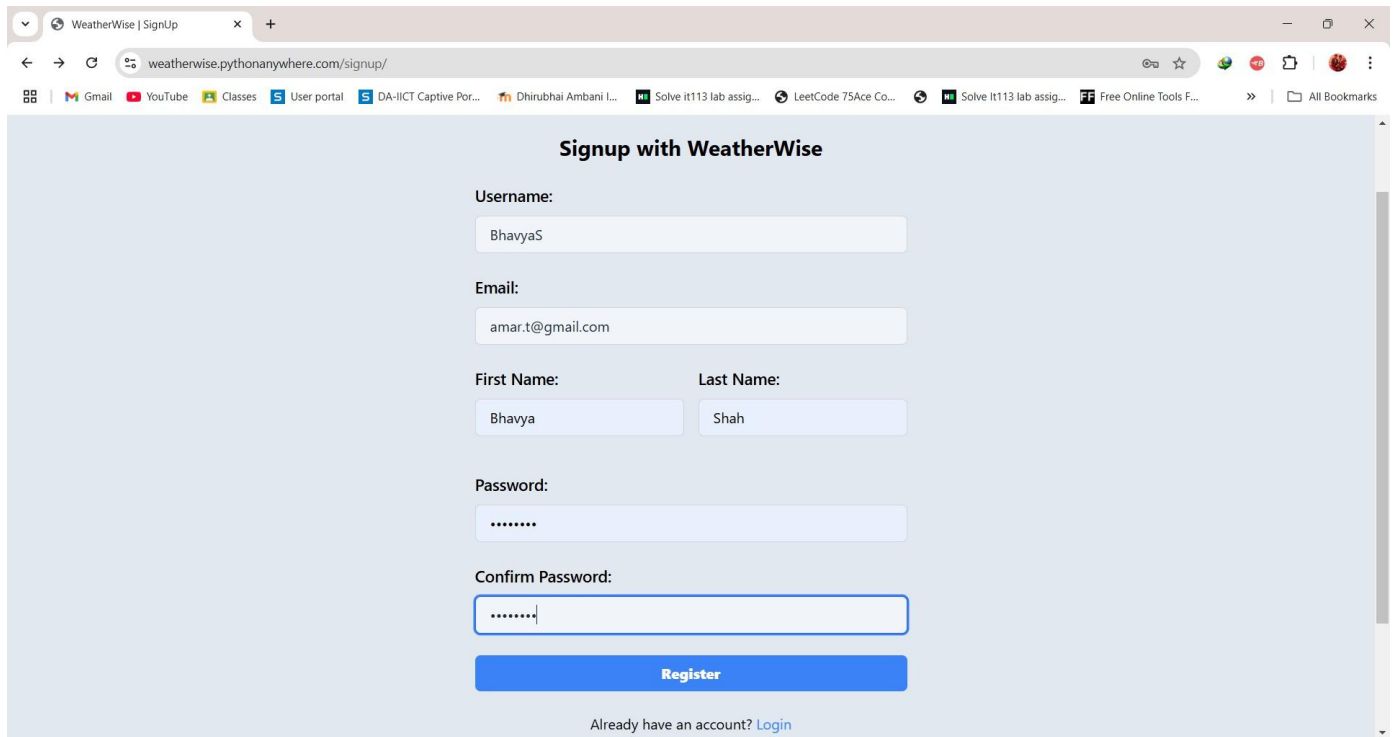
Test 5:

Email: shahb1268@gmail.com

First Name: Bhavya

Last Name: Shah

Password: Rishi123

Username: bh

Output: Invalid

Test 6:

Email: shahb1268@gmail.com

First Name: B

Last Name: S

Password: Rishi123

Username: Bhavya_Shah

Output: Invalid

Test 7

First Name: Bhavya$

Last Name: Shah@

Username: Bhavya3636

Password: rishishah

Email: shahb1268@gmail.com

Output : invalid

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: Blank
Email:a@gmail.com
Username:
Bhavya_Shah
Output: Invalid

Test: 2 (Above Picture)
   First name: a
   Last name: cba
   Email:
   shahb1268@gmail.co
   m
   Username: Bhavya_Shah
   Output:Invalid

Test: 3
   First name: bca
   Last name: v
   Email:
   shahb1268@gmail.co
   m
   Username: Bhavya_Shah
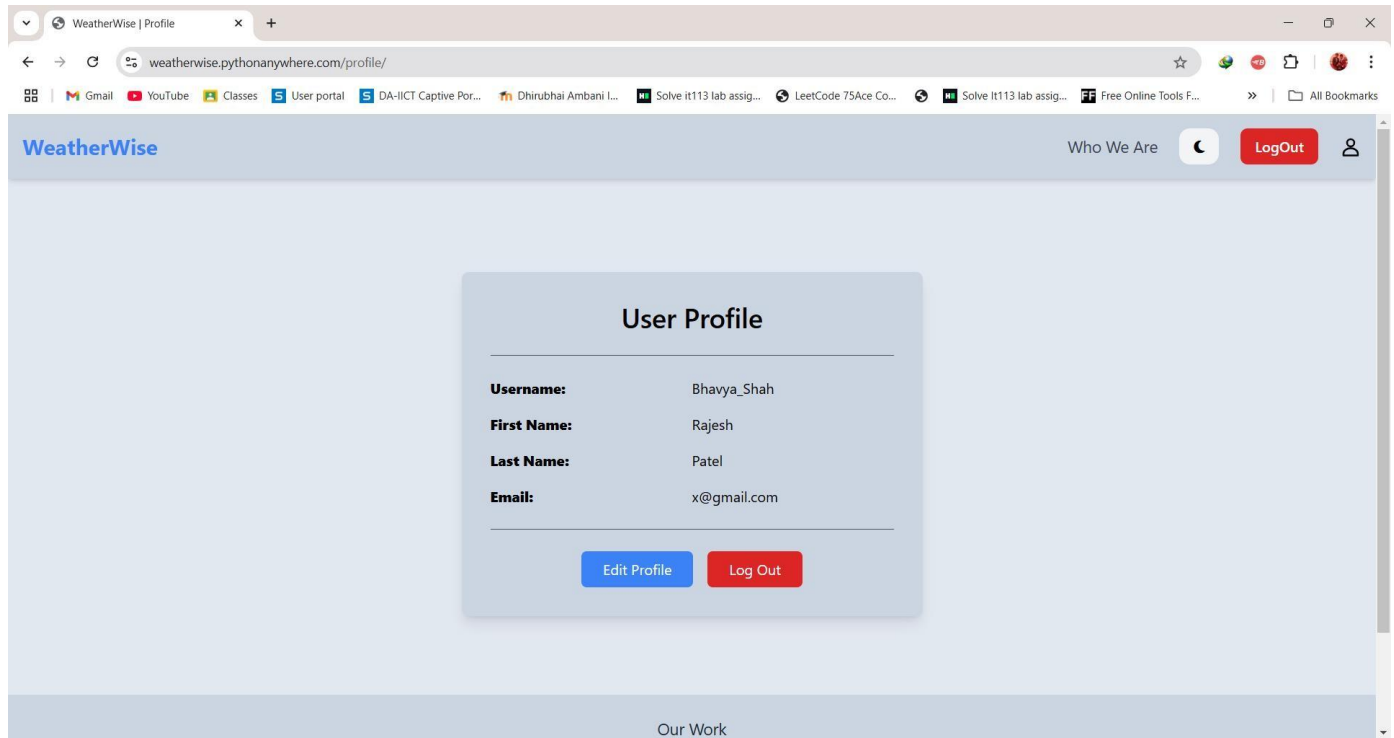   Output:Invalid

Test: 4
  First name: Rajesh
  Last name: Patel
  Email:x@gmail.com
  Username: Bhavya3604
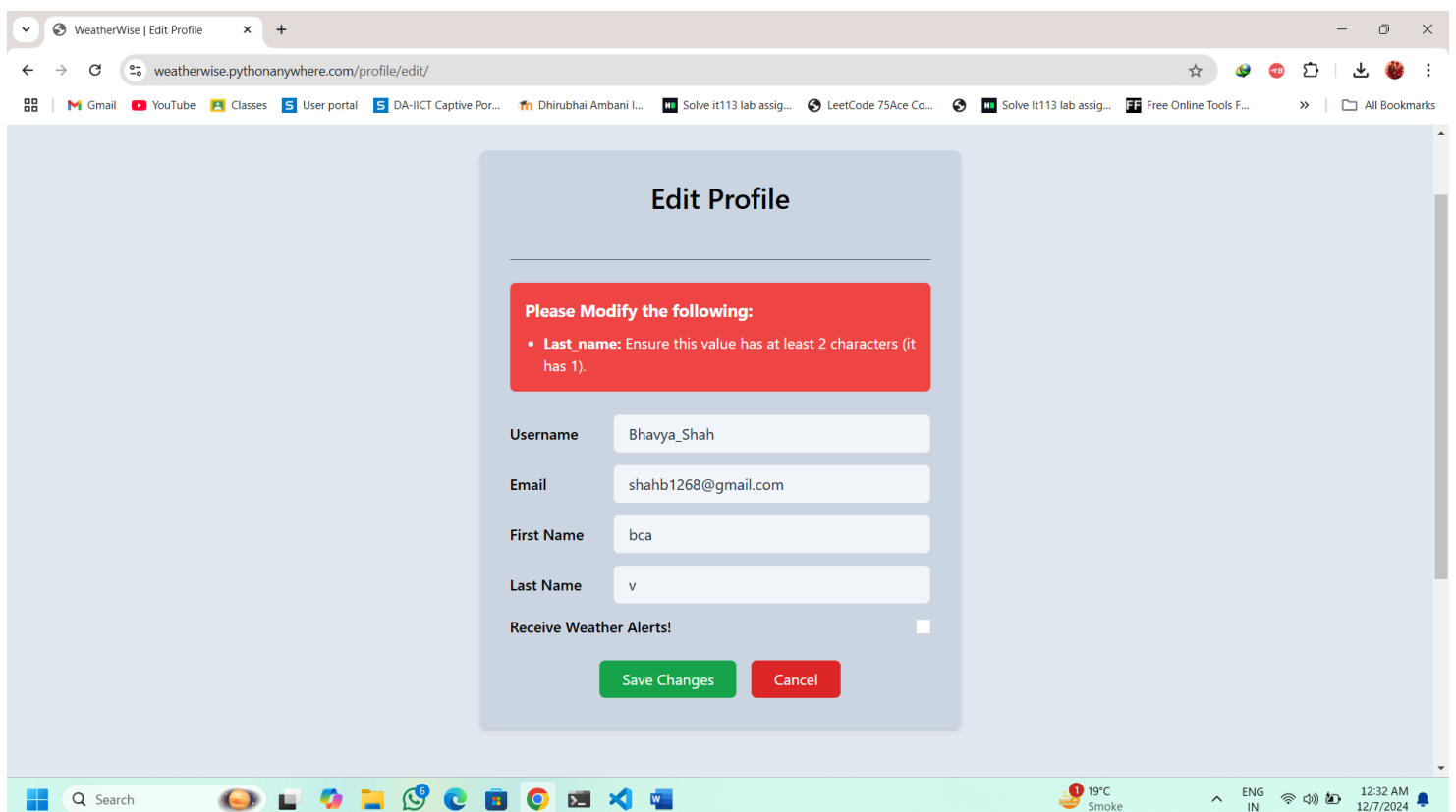 Output: Valid

Test: 5
  First name: bca
  Last name: v
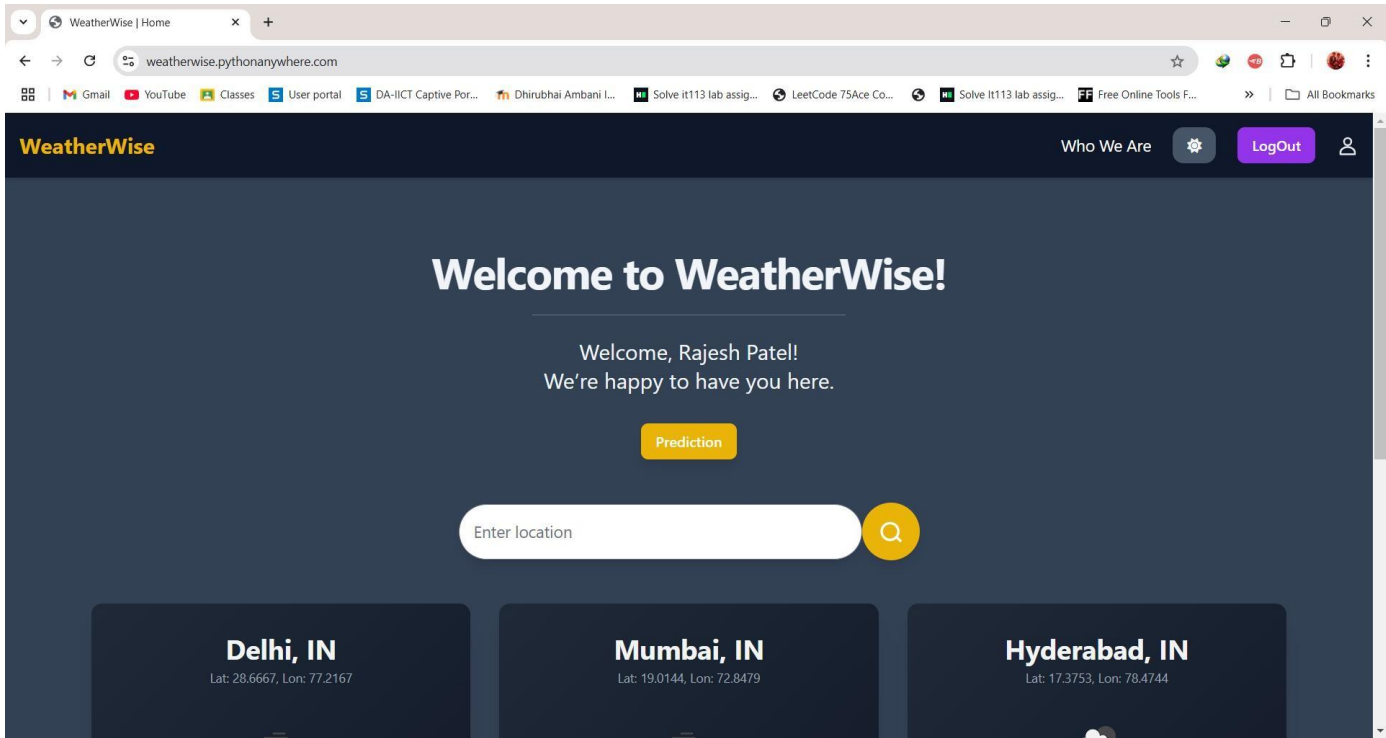 Email:shahb1268@gm
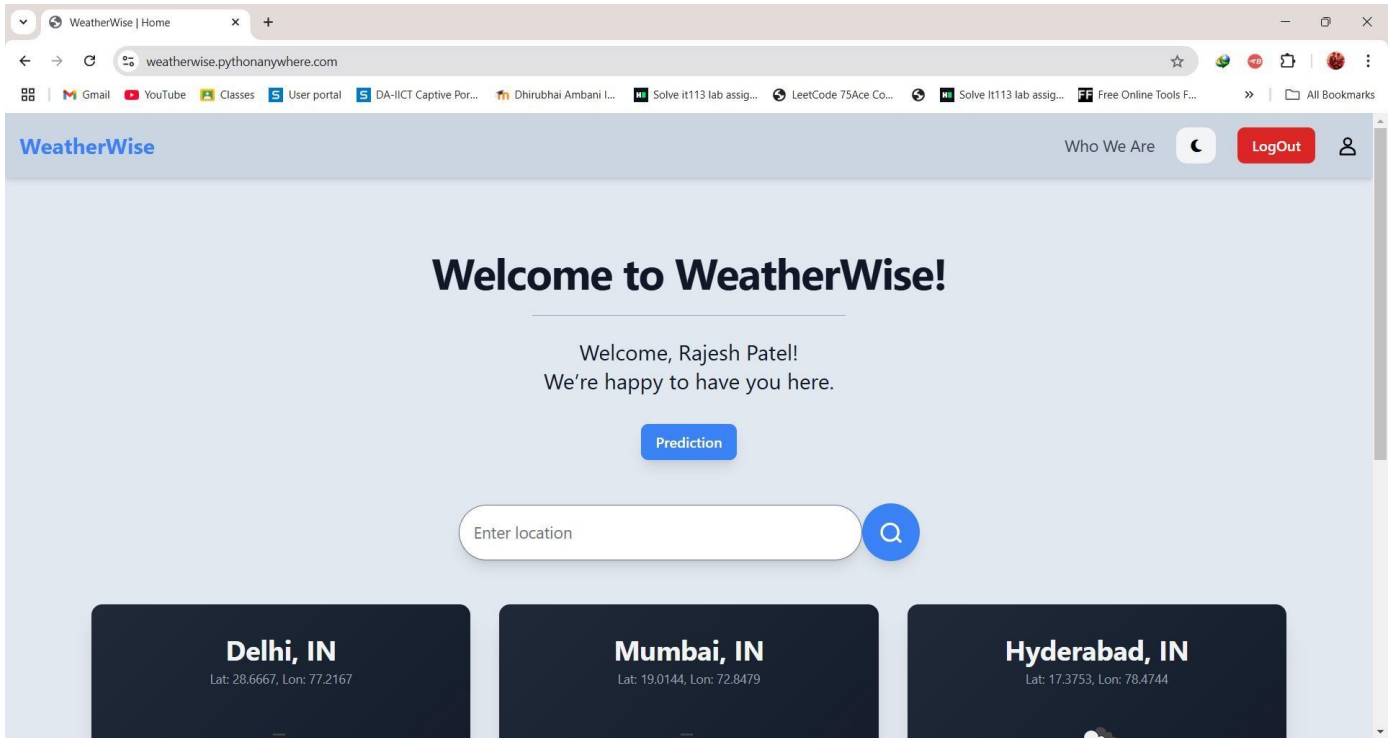 ail.com
  Username: Bhavya_Shah
  Output: Valid

4. Dark Mode:

Test: 1
Dark Mode: On
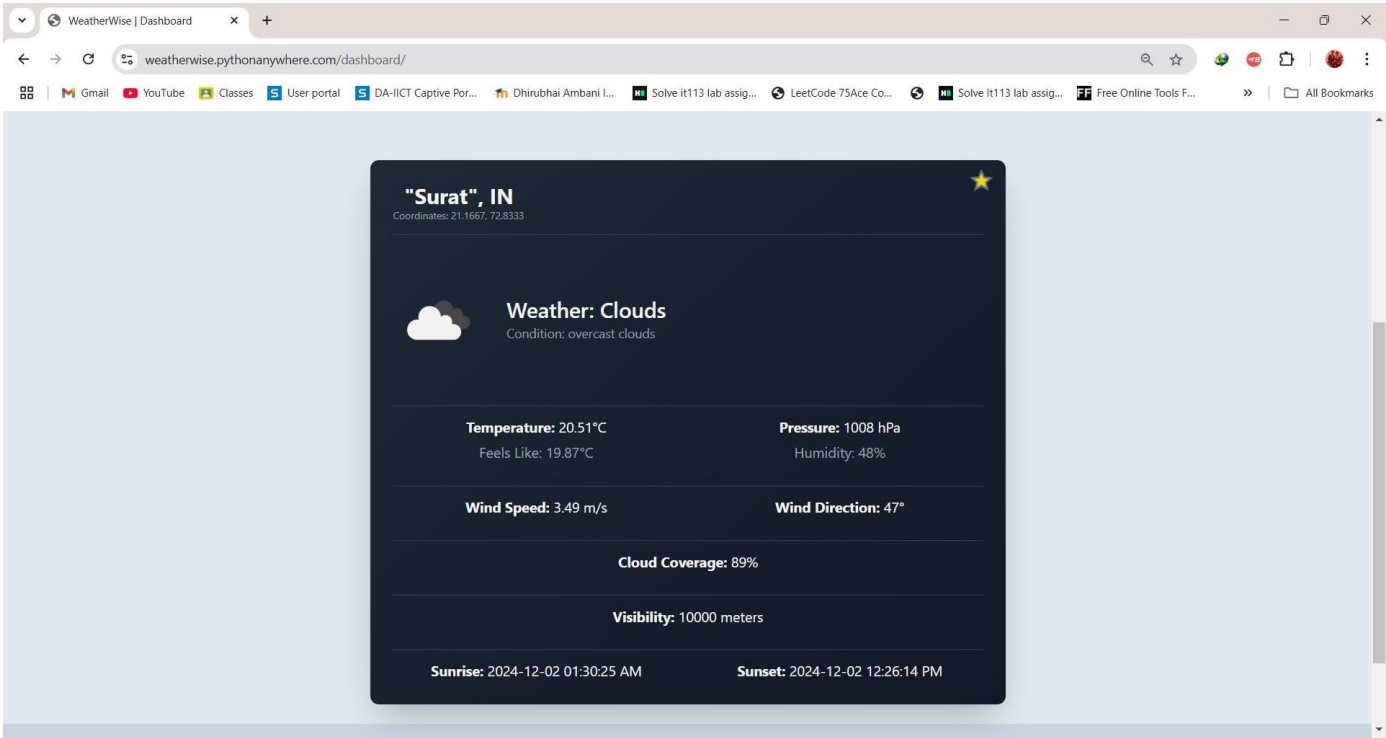

Test: 2
Dark Mode: Off

5. Location
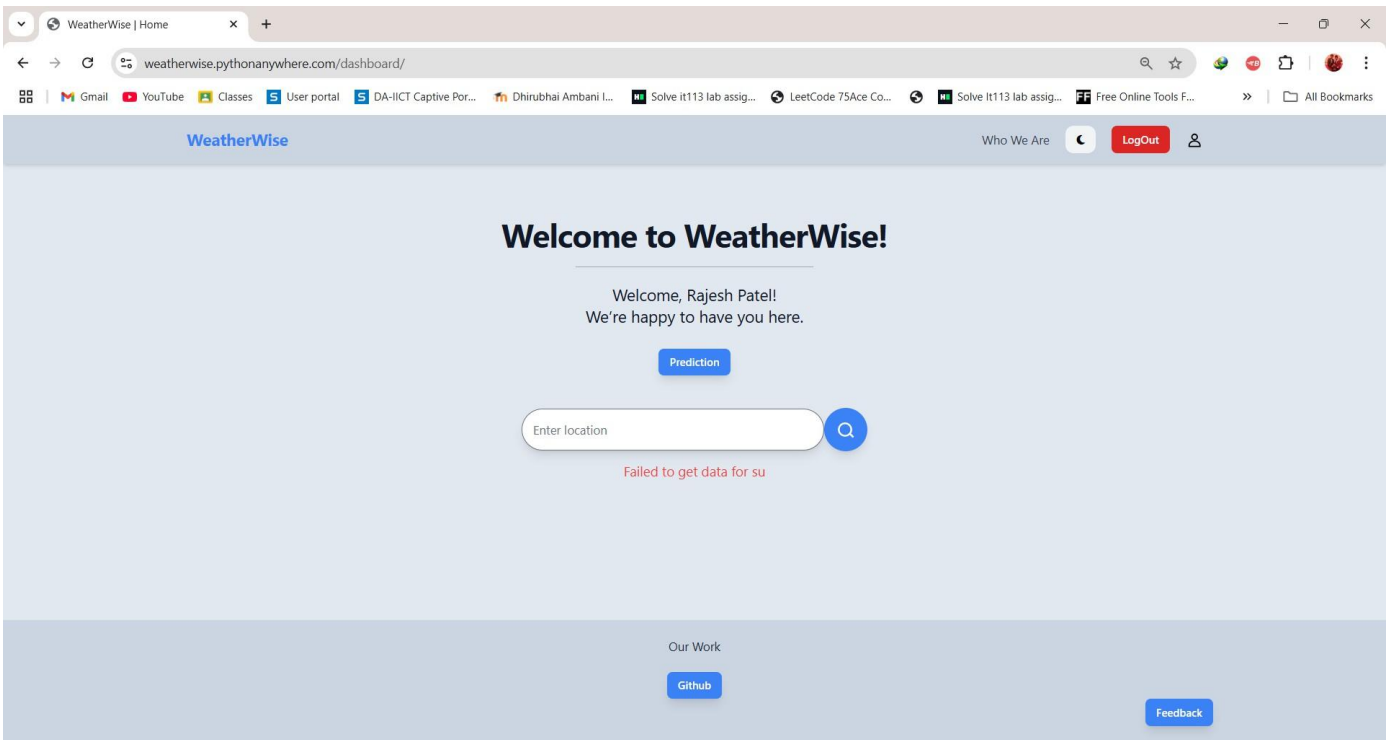
Test: 1

Location: Surat

Output: Valid
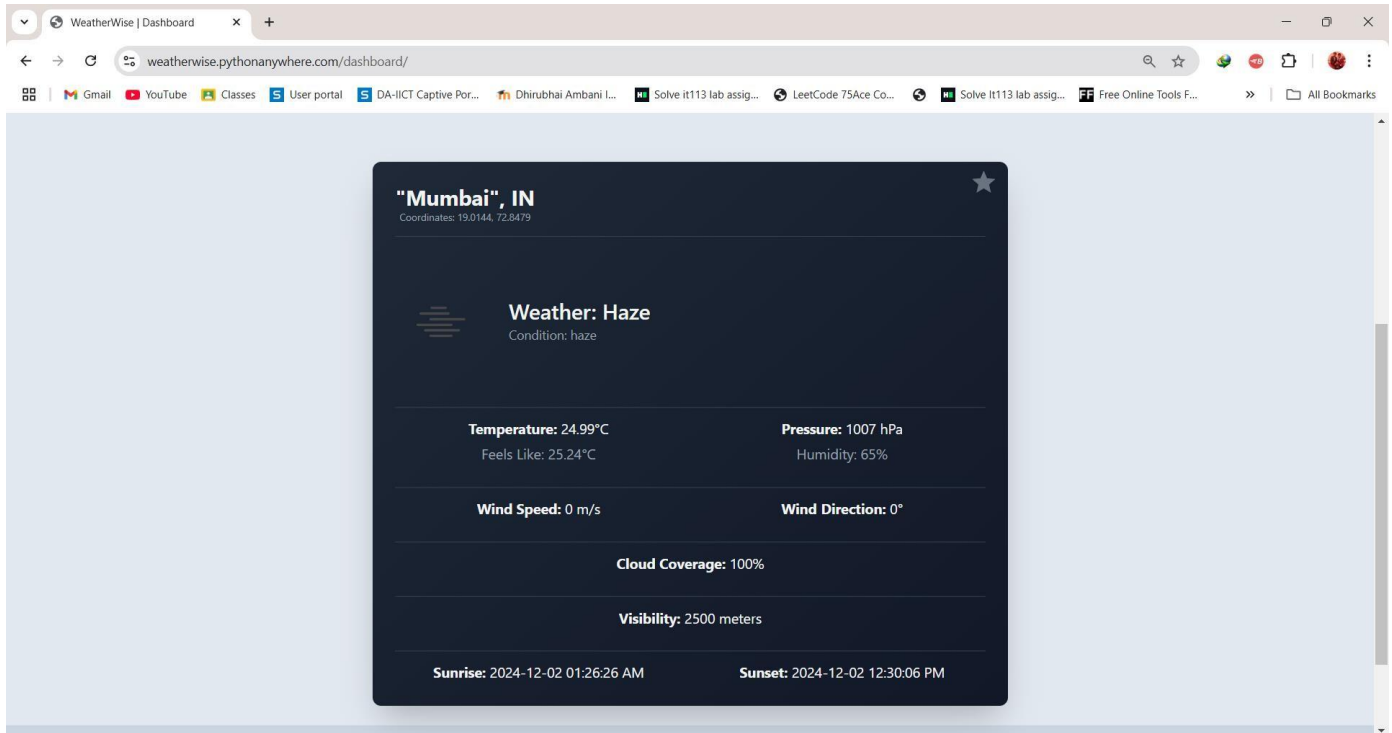

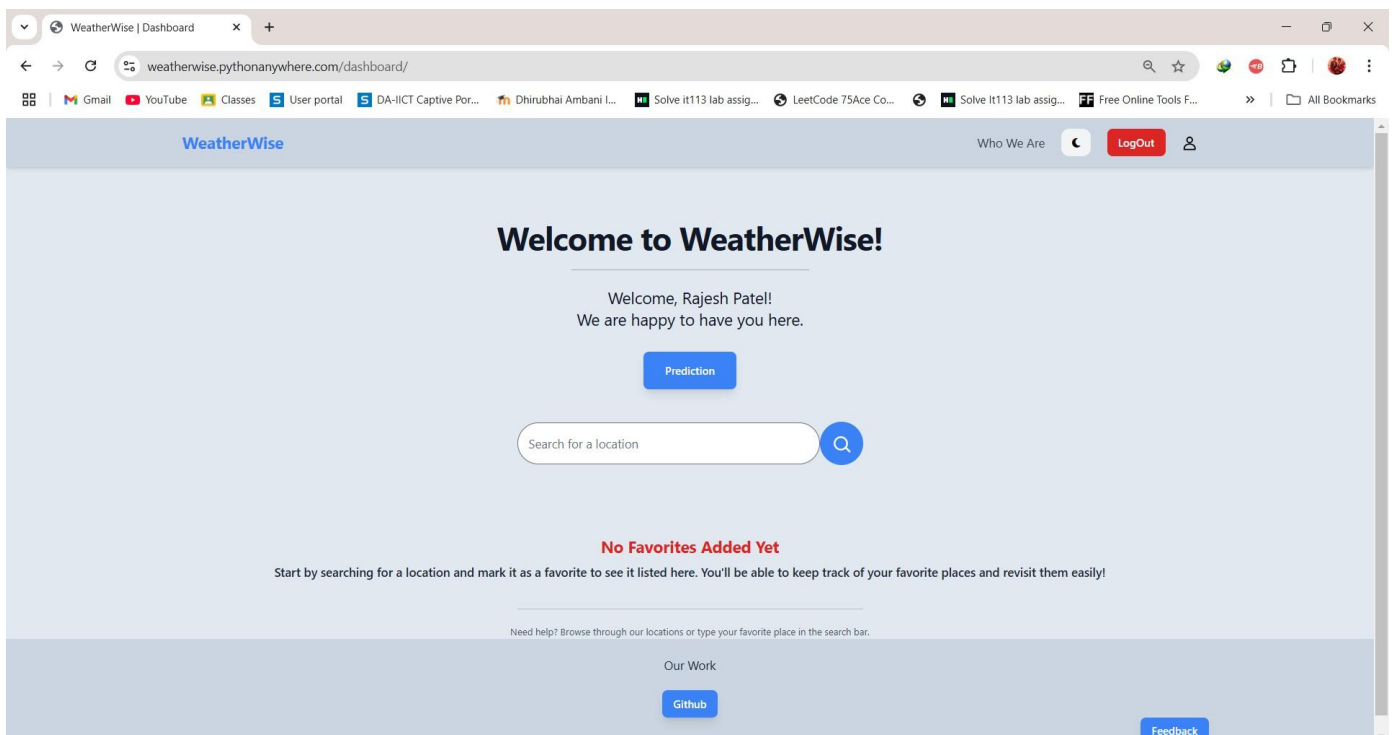Test: 2

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: