

## **IT313 - Software Engineering**

## **Warehouse Management System**

# **Group No. 5 System Testing**

## **Group Members**

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## **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 small letters [a-z] must contain number [0-9] must contain special character [!@#\$%^&\*] must contain between 8-12 characters

#### **Password confirmation:**

Must be the same as Password.

#### Role:

An option button which contains (Farmer, Warehouse).

### **Equivalence class partitioning:**

<b>Equivalence class</b>	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

E-mail	Password	Confirm Password	Role	Expected Output	Actual Output	Reason
a@	Abcd@123	Abcd@123	Farmer	fail	fail	Email constraint
@gmail.com	Abcd@123	Abcd@123	Warehouse	fail	fail	Email constraint
abc@gmail.com	abcd@123	abcd@123	Farmer	fail	fail	Password constraint
abc@gmail.com	ABCD@123	ABCD@123	Warehouse	fail	fail	Password constraint
abc@gmail.com	Abcd1234	Abcd1234	Farmer	fail	fail	Password constraint
abc@gmail.com	Abcd@1	Abcd@1	Warehouse	fail	fail	Password constraint
abc@gmail.com	Abcd@123	Abcd1234	Farmer	fail	fail	Password Not match
abc@gmail.com	Abcd@123	Abcd@123	Warehouse	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:**

<b>Equivalence class</b>	E-mail	Password	Result
E1	valid	valid	success
E2	invalid	valid	error

E3	valid	invalid	error
E4	invalid	invalid	error

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@123	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. Warehouse owner 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:**

<b>Equivalence class</b>	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

First Name	Last Name	Upload image	Clear Image	Mobile No	Expected Output	Actual Output	Reason
	ху	Yes	No	1234567890	fail	fail	First name can't be NULL
abc		Yes	No	1234567890	fail	fail	Last name can't be NULL
abc	ху	Yes	Yes	1234567890	fail	fail	Both edit/clear can't work simultaneously
abc	abcd	No	No	1234	fail	fail	Mobile no. constraint
abc	abcd	No	No	12345678901	fail	fail	Mobile no. constraint
abc	ABC	No	Yes	1234567890	Pass	Pass	-

## 4. User 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

City/state:

Required field (cannot be empty)

## **Equivalence class partitioning:**

<b>Equivalence class</b>	Name	Address	Mobile No.	Edit-Image	Result
E1	valid	valid	valid	valid	success
E2	invalid	valid	valid	valid	error
E3	valid	invalid	valid	valid	error
E4	valid	valid	invalid	valid	error
E5	valid	invalid	invalid	valid	error
E6	invalid	valid	invalid	valid	error
E7	invalid	invalid	valid	valid	error
E8	invalid	invalid	invalid	valid	error
E9	valid	valid	valid	invalid	error
E10	invalid	valid	valid	invalid	error
E11	valid	invalid	valid	invalid	error
E12	valid	valid	invalid	invalid	error
E13	valid	invalid	invalid	invalid	error
E14	invalid	valid	invalid	invalid	error
E15	invalid	invalid	valid	invalid	error
E16	invalid	invalid	invalid	invalid	error

Nam e	City/stat e	Uploa d image	Clear Imag e	Mobile No	Expecte d Output	Actual Outpu t	Reason
	Ab /bc	Yes	No	1234567890	fail	fail	Name can't be NULL
abc		Yes	No	1234567890	fail	fail	city/state name can't be NULL
abc	xy/bd	Yes	Yes	1234567890	fail	fail	Both edit/clear can't work simultaneously

abc	abc/vx	No	No	1234	fail	fail	Mobile no. constraint
abc	abc/cs	No	No	1234567890 1	fail	fail	Mobile no. constraint
abc	AB/M	No	Yes	1234567890	Pass	Pass	-

## 4. Add Warehouse:

## Warehouse name/Address/city/state/Poc Name:

Required field (cannot be empty)

Phone No.

Must be of 10 digits

Latitude/Longitude:

Required field (cannot be empty)

## **Equivalence class partitioning:**

Equivalence class	Warehouse /POC Name	Address	Mobile No.	Lati-Longi	Result
E1	valid	valid	valid	valid	success
E2	invalid	valid	valid	valid	error
E3	valid	invalid	valid	valid	error
E4	valid	valid	invalid	valid	error
E5	valid	invalid	invalid	valid	error
E6	invalid	valid	invalid	valid	error
E7	invalid	invalid	valid	valid	error
E8	invalid	invalid	invalid	valid	error
E9	valid	valid	valid	invalid	error
E10	invalid	valid	valid	invalid	error
E11	valid	invalid	valid	invalid	error
E12	valid	valid	invalid	invalid	error
E13	valid	invalid	invalid	invalid	error

E14	invalid	valid	invalid	invalid	error
E15	invalid	invalid	valid	invalid	error
E16	invalid	invalid	invalid	invalid	error

Wareho use Name	Address/city/ state	PO C nam e	Lati/Lo ngi	Mobile No	Expect ed Outpu t	Actu al Outp ut	Reason
akh	xy		23.2156 72.6369	12345678 90	fail	fail	Name can't be NULL
abc		ahj	21.6153 73.6267	12345678 90	fail	fail	Address/city/ state can't be NULL
abc	abcd	ah	11.6153 33.6267	1234	fail	fail	Mobile no. constraint
abc	abcd	ah	11.6153 33.6267	12345678 901	fail	fail	Mobile no. constraint
abc	ABC		27.6153 72.6267	12345678 90	fail	fail	POC can't be null
abc	ABC	caj		12345678 90	fail	fail	Lati/Longi can't be null
abc	ABC	ahj	27.6153 72.6267	12345678 90	Pass	Pass	-

## 5. Add Unit:

**Unit type:** 

Drop down menu (standard, temperature controlled)

Capacity:

Integer value (ranges in 1-1e9 m3)

**Price:** 

Decimal Value (ranges in 0.01-1e9 ₹/day)

## **Equivalence class partitioning:**

Equivalence class	capacity	Price	Result
E1	valid	valid	success
E2	invalid	valid	error
E3	valid	invalid	error
E4	invalid	invalid	error

Unit Type	Capacity	Price	Expected Output	Actual Output	Reason
standard		500.5	fail	fail	Capacity not NULL
Temperature controlled	3		fail	fail	Price can not null
Temperature controlled	8	111111111111	fail	fail	Price out of bound
standard	5.5	230	fail	fail	Capacity must be integer
Temperature controlled	10	500	Pass	Pass	-

## 6. Remove Unit:

#### **Select unit:**

Drop down menu containing units of warehouse

## **Equivalence class partitioning:**

Equivalence class	Select unit	Result
E1	valid	success

Select unit	Expected Output	Actual Output	Reason
5	Pass	Pass	•

## 6. Search my warehouse:

#### **Search warehouse:**

Text field

## **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	Select unit	Result
E1	valid	success

## **Boundary value analysis:**

Search	Expected Output	Actual Output	Reason
	Pass	Show all values	Since no text
Abc	Pass	List warehouse name relevant with abc	There present some relevant names
Abc	Pass	List all warehouse	If no value relevant to Abc

## 7. Search warehouse:

**Start date:** 

Calendar box

End date:

Calendar box

Latitude/Longitude:

Required field (cannot be empty)

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.

<b>Equivalence class</b>	Start-date	End-date	Latitude	Longitude	Result
E1	valid	valid	valid	valid	success
E2	invalid	valid	valid	valid	error
E3	valid	invalid	valid	valid	error
E4	valid	valid	invalid	valid	error
E5	valid	invalid	invalid	valid	error
E6	invalid	valid	invalid	valid	error
E7	invalid	invalid	valid	valid	error
E8	invalid	invalid	invalid	valid	error
E9	valid	valid	valid	invalid	error
E10	invalid	valid	valid	invalid	error
E11	valid	invalid	valid	invalid	error
E12	valid	valid	invalid	invalid	error
E13	valid	invalid	invalid	invalid	error
E14	invalid	valid	invalid	invalid	error
E15	invalid	invalid	valid	invalid	error
E16	invalid	invalid	invalid	invalid	error

## **Boundary value analysis:**

Start date	End date	Latitude	Longitude	Expected Output	Actual Output	Reason
	2023- 11-15	23.2156	72.6369	Date req.	Date req.	Date can't be NULL
2023- 11-13	2023- 11-15	21.6153		Lati-Longi req	Lati- Longi req	Longitude can't be NULL

2023- 11-17	2023- 11-15	11.6153	33.6267	Invalid date	Invalid date	Start date must be before end date
2023- 11-13	2023- 11-15	27.6153	72.6267	pass	pass	•

## 8. Book unit:

#### **Select unit:**

Check box (single/multiple) containing units of warehouse (Required)

## **Description:**

Text area(optional)

## **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	Unit	Result
E1	valid	success
E2	invalid	error

## **Boundary value analysis:**

Unit selected	Description	Expected Output	Actual Output	Reason
	hi	Fail	Pail	At Least one unit must be selected
1,2,3		Pass	Pass	Description is optional
5,6,44	hi	Pass	Pass	•

## **Acceptance Testing**

## 1. sign up:

Test: 1 Email: abc

password: Abcd@123

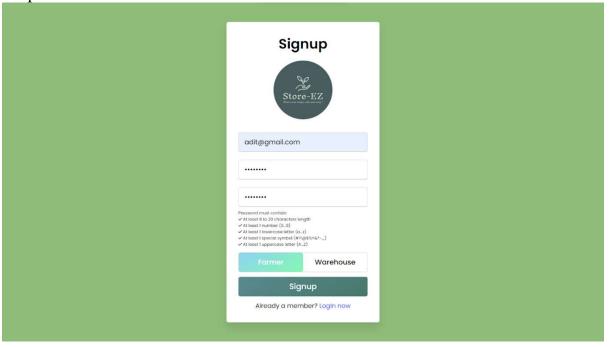
Output: Invalid

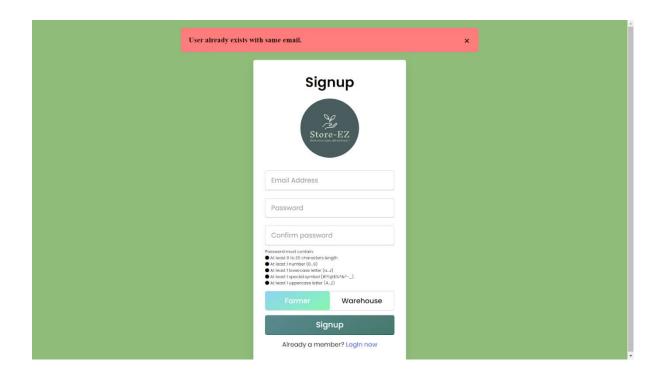


Test: 2

Email: adit@gmail.com password: Abcd@123

Output: Invalid

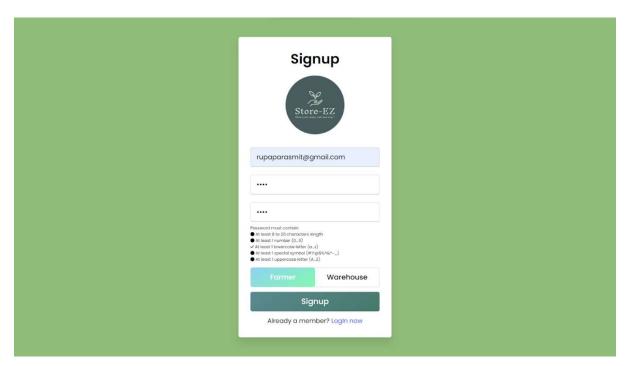


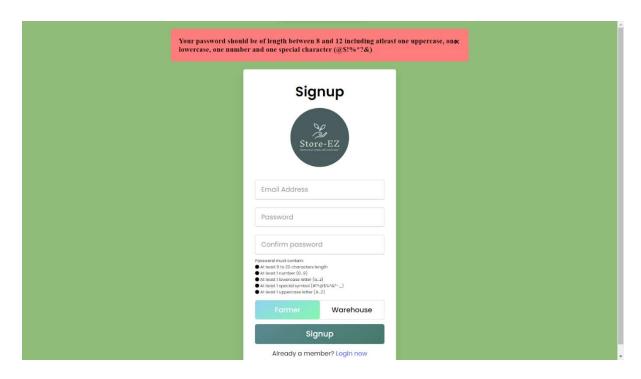


Test: 3

Email: rupaparasmit@gmail.com

password: Abcd Output: Invalid



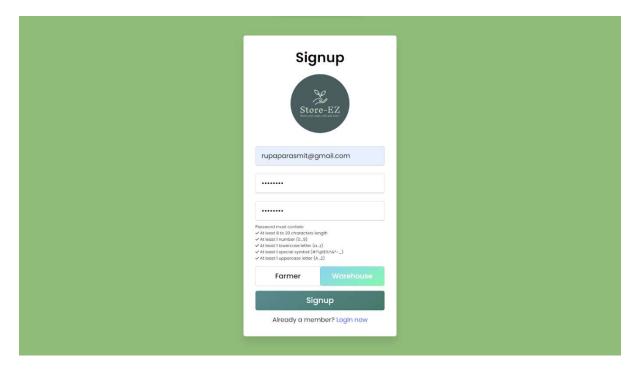


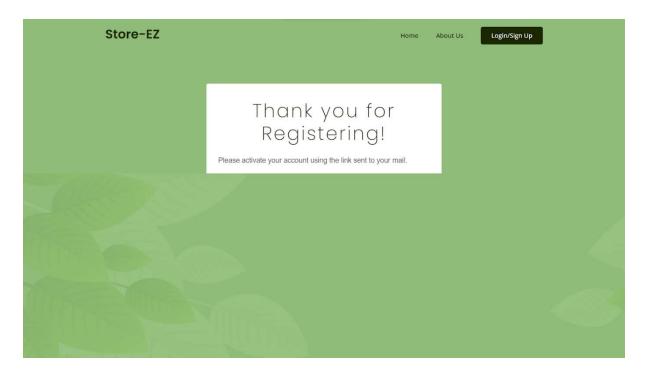
Test: 4

Email: rupaparasmit@gmail.com

password: Abcd@123

Output: Correct



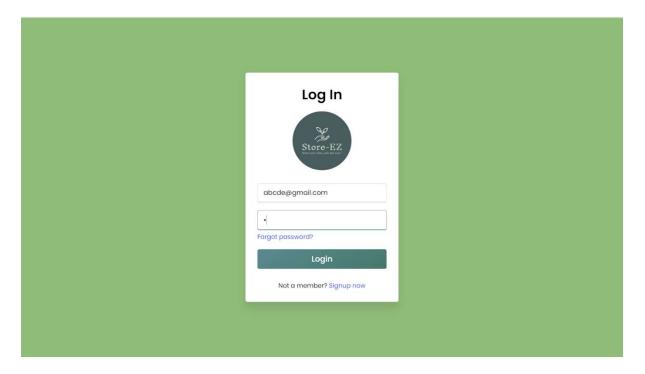


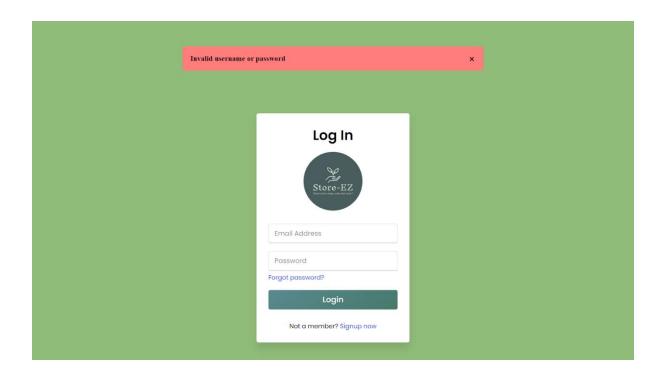
## 2. Log in

Test: 1

Email: abcde@gmail.com

password: A Output: Invalid





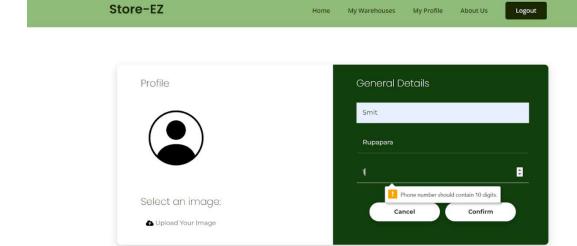
## 3. Edit Profile for warehouse owner

Test: 1

First name: Smit

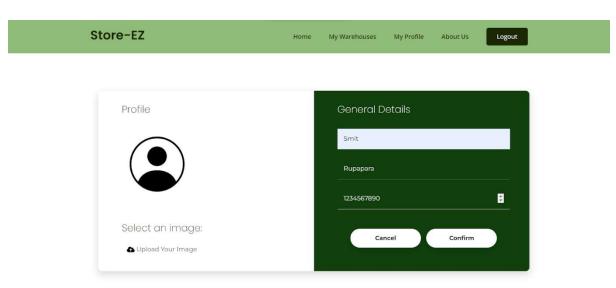
Last name: Rupapara

Mobile no.: 1 Output: Invalid



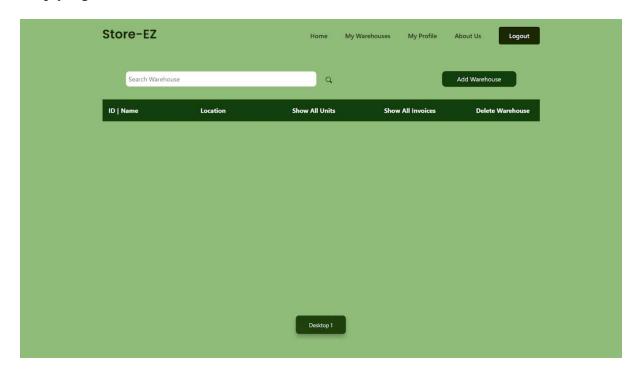
Test: 2

First name: Smit Last name: Rupapara Mobile no.: 1234567890



## 4. My Warehouse Page:

Empty right now



#### 5. Add Warehouse:

Test: 1

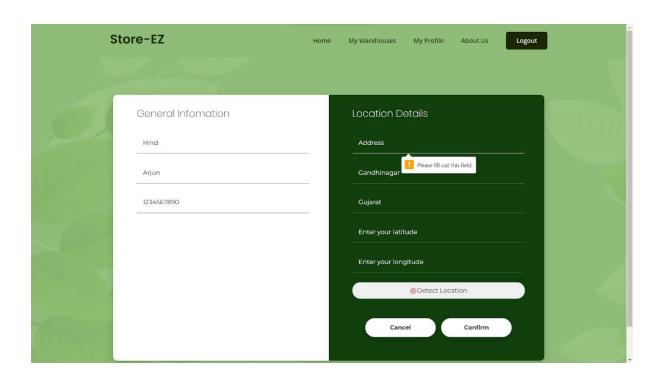
Warehouse name: Hind

POC name: Arjun

Mobile no.:1234567890

Address:

City: Gandhinagar State: Gujarat Output: Invalid

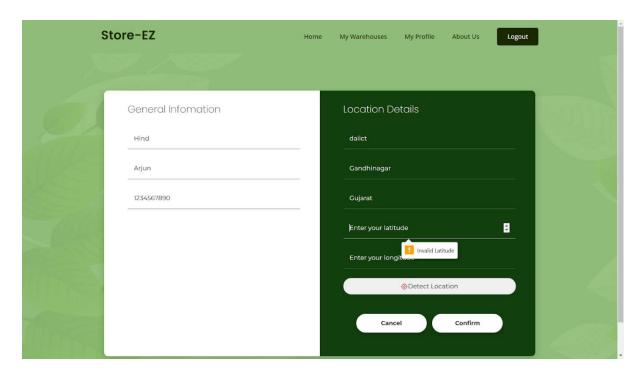


Test: 2

Warehouse name: Hind POC name: Arjun

Mobile no.:1234567890

Address: daiict City: Gandhinagar State: Gujarat Output: Invalid



Test: 3

Warehouse name: Hind

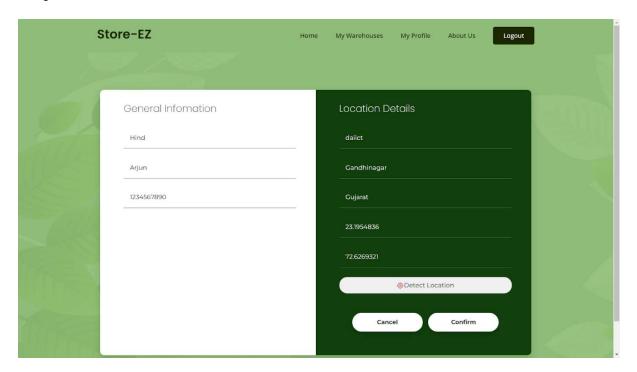
POC name: Arjun

Mobile no.:1234567890

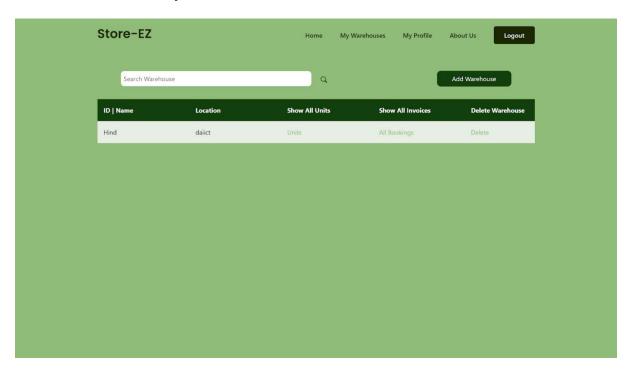
Address:

City: Gandhinagar State: Gujarat Latitude: 23.1956 Longitude: 72.6269

Output: Valid

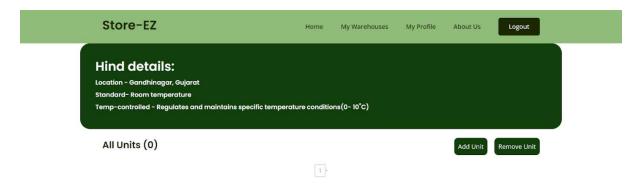


Warehouse added in my warehouse.

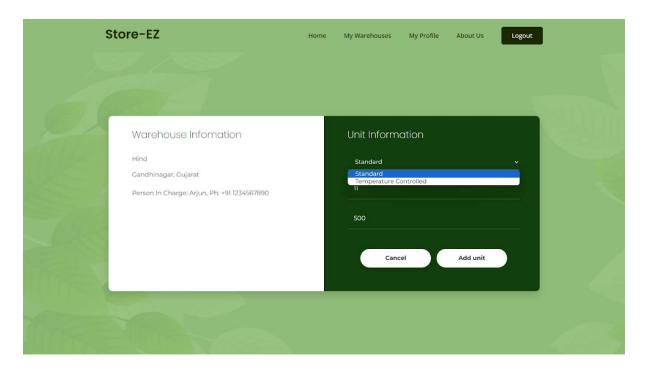


## 6. Warehouse details:

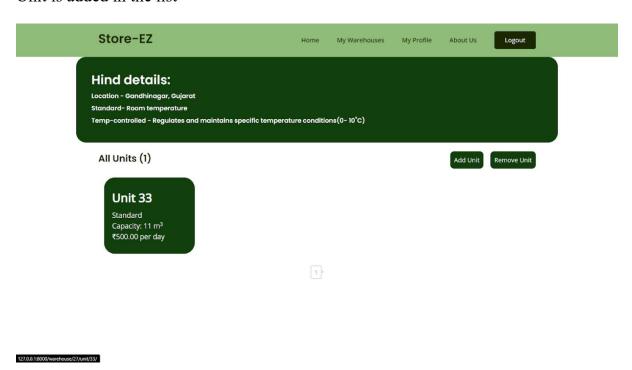
List is empty now



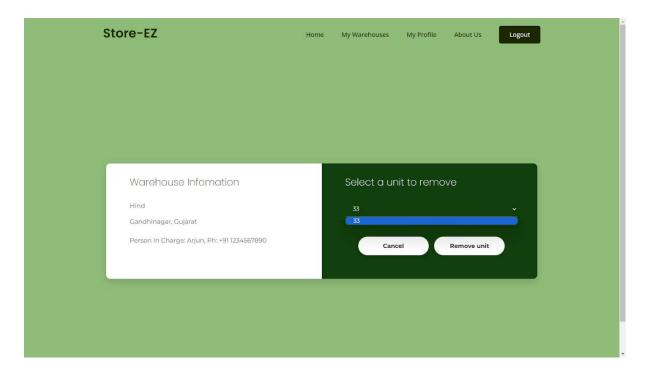
#### 7. Add unit



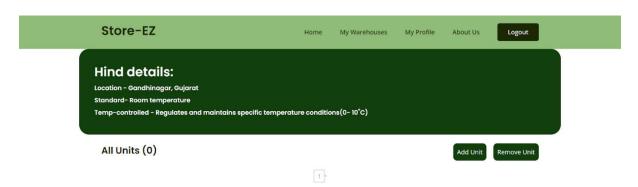
## Unit is added in the list



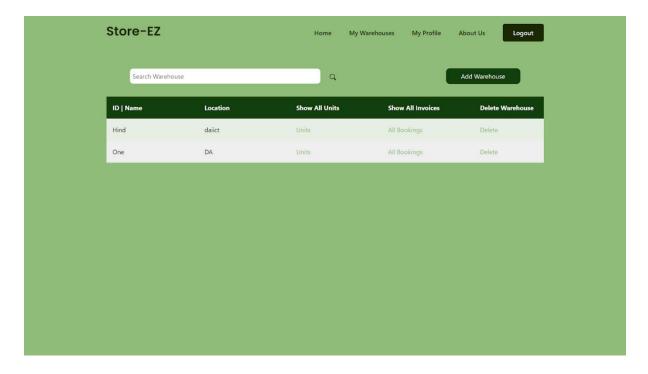
#### 8. Remove unit



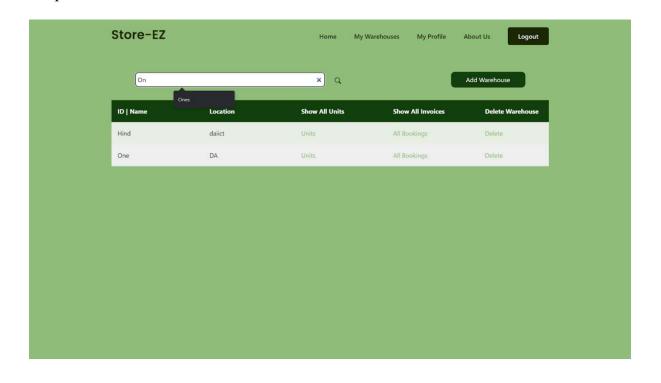
## Unit is removed from the list

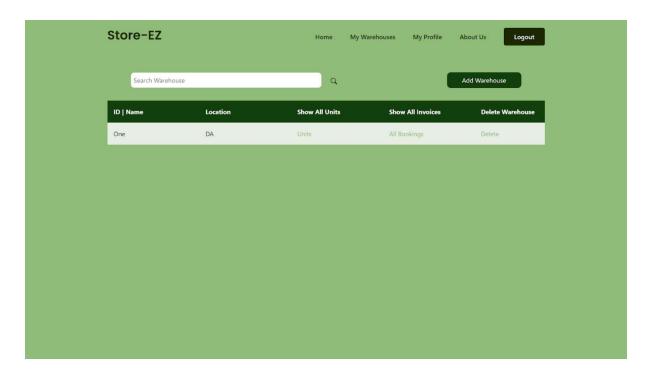


#### 9. Search warehouse



Test: 1 Warehouse name: on Output: Correct

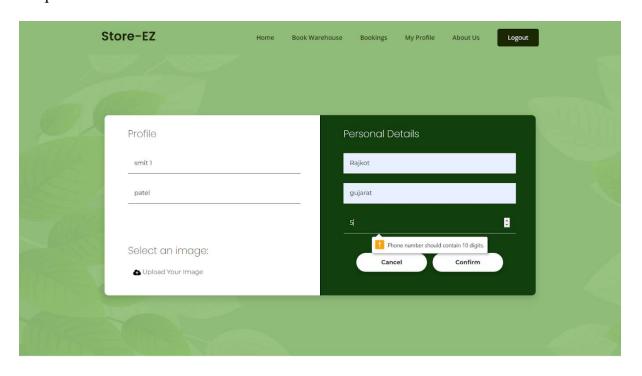




## 10. Edit profile farmer

Test: 1

First name: smit 1 Last name: patel City: Rajkot State: gujarat Mobile no.: 5 Output: **Invalid** 

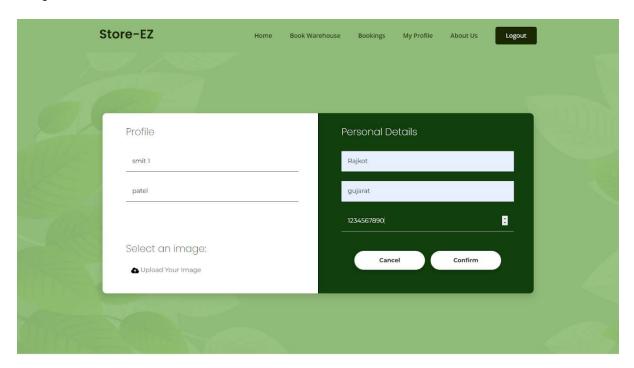


Test: 2

First name: smit 1 Last name: patel City: Rajkot State: gujarat

Mobile no.: 1234567890

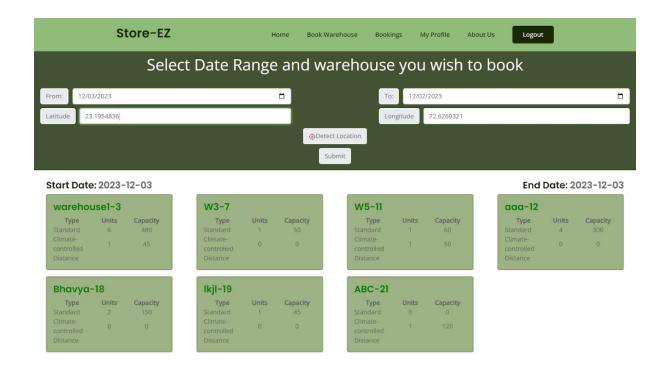
Output: correct

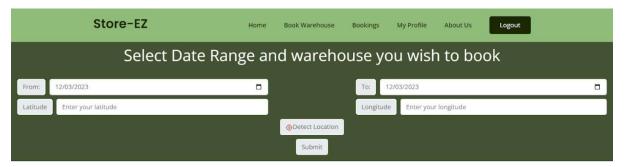


## 11. Search warehouse

Test: 1

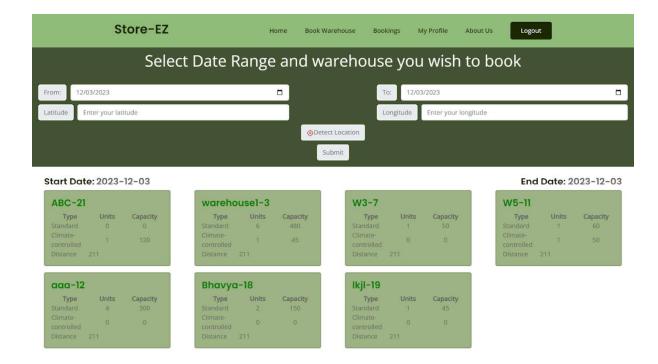
Start date: 12/3/2023 End date: 12/2/2023 Location added Output: **invalid** 





Start Date: 2023-12-03 End Date: 2023-12-03

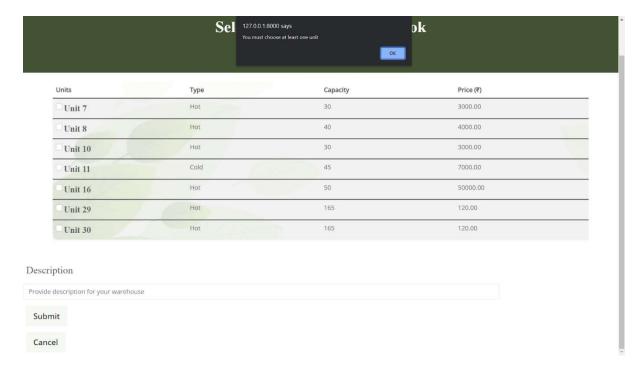
Invalid Dates



#### 12. book unit

Test: 1

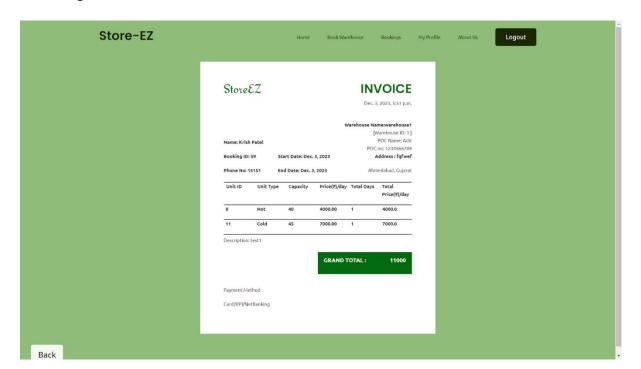
Selected no unit Output: Invalid



#### Two unit selected



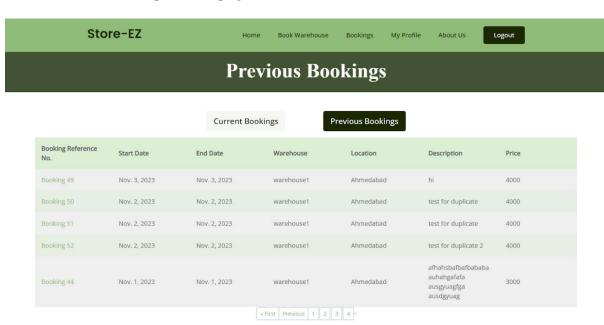
## Invoice generated



## Booked unit shows in list of farmer's current booking



## Here we can also see previous page



Booked unit also get added in warehouse's unit/booking logs.

