

Software Testing Report on

# Supply Chain Traceability for Organic Jaggery

Submitted By

Ayush Bansal	17u112
Lokesh Budhlani	17u273
Aadesh Ingle	17u354
Siddesh Vyavahare	17u373
Ashish Gole	17u688

Under the Guidance of

Prof Dr. Priya Shelke

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Vishwakarma Institute of Information Technology, Pune 411048  
*Affiliated To*



Savitribai Phule Pune University, Pune

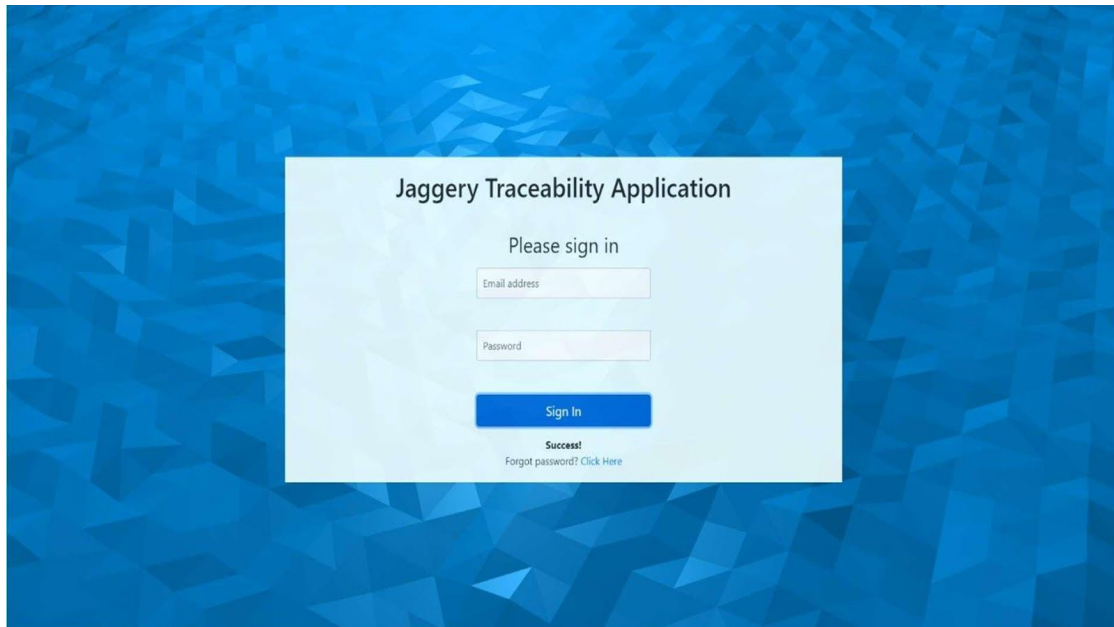
## List of Test Cases:

Sr. No.	Test Case Name	Prerequisites	Action	Excepted Result	Actual Result	Status
1	Login	Username and password should be entered.	Click on login button	Login successful for valid credentials	Successful login	Pass
2	Login	Username and password should be entered.	Click on login button	Login unsuccessful for invalid credentials	Login failed	Pass
3	Register User	All details must be entered	Click on Register button	Successful Registration for correct details	Successful Registration of the User	Pass
4	Register User	All details must be entered	Click on Register button	Registration unsuccessful for invalid credentials	Registration of User failed	Pass
5	Update Profile Validation	All details must be entered	Click on Update Profile button	Alert generated for invalid phone number	Alert generated for invalid phone number	Pass
6	Add Product By the Manufacturer	User must be logged in	Add Product Details and Click on Add Product Button	Product information inserted in Multichain	Product is registered	Pass
7	Add Product By the Manufacturer	User must be logged in	Add Product Details and Click on Add Product Button	Product information not inserted in Multichain as product already exists	Product is not registered	Pass

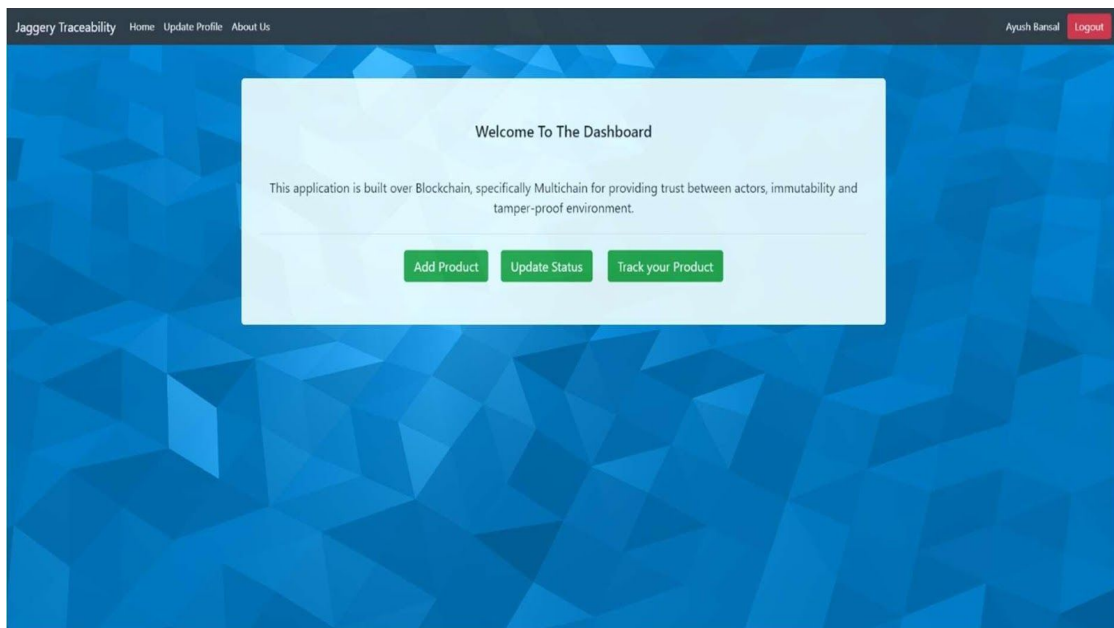
8	Add Product By any actor excluding Manufacturer	User must be logged in	Add Product Details and Click on Add Product Button	Product information not inserted in Multichain as product already exists	Product is not registered	Pass
9	Update Status by product possessor	User must be logged in and should enter all the details	Click on Update Status Button	Product information inserted in Multichain	Product is updated	Pass
10	Update Status by product possessor	User must be logged in	User enters product details and Click on Update Status Button	Product information not inserted in Multichain as product doesn't exist	Product is not updated	Pass
11	Update Status by Any actor excluding product possessor	User must be logged in and should enter all the details	Click on Update Status Button	Product information not inserted in Multichain as user is not Authorized	Product is not updated	Pass
12	Trace product	User must be logged in and should enter product ID	Click on Trace Product Button	Product information is shown to the user	Product is traced	Pass
13	Trace product	User must be logged in	User enters invalid Product ID and Click on Trace Product Button	Product information is not shown to the user and Error is shown to the user	Product is not traced as product doesn't exist	Pass
14	Change Password	User must do sign in	User enters email id and new password and confirm it	Password must be changed successfully for registered email id	Password changed successfully	Pass

15	Change Password Validation	User must do sign in	User enters email id and new password and doesn't confirms it	Alert generated for confirmation of password	Password doesn't changed	Pass
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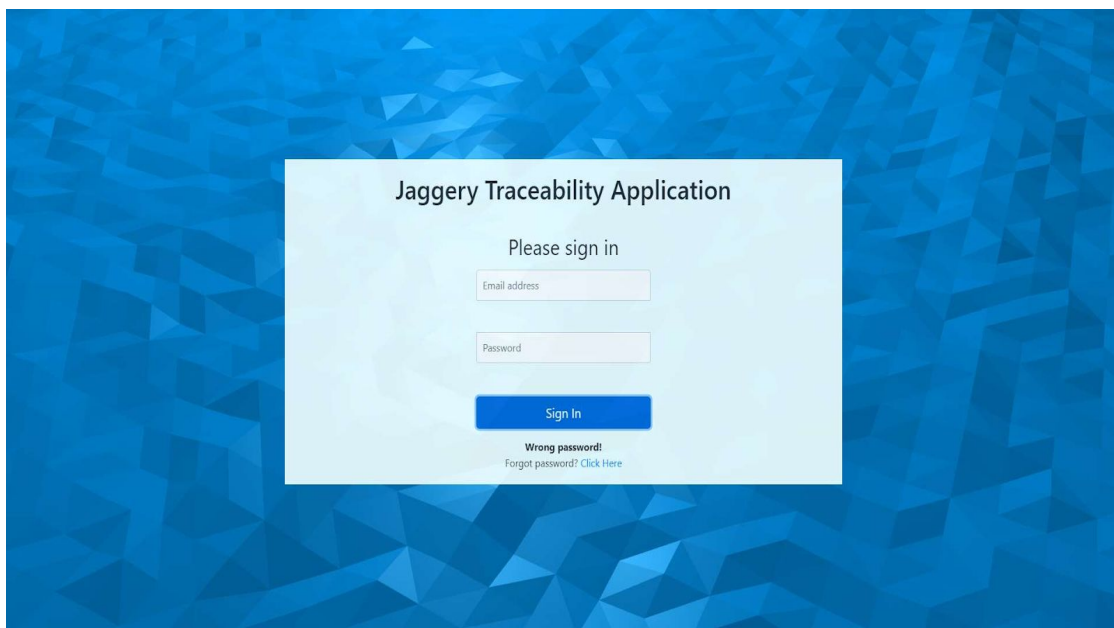
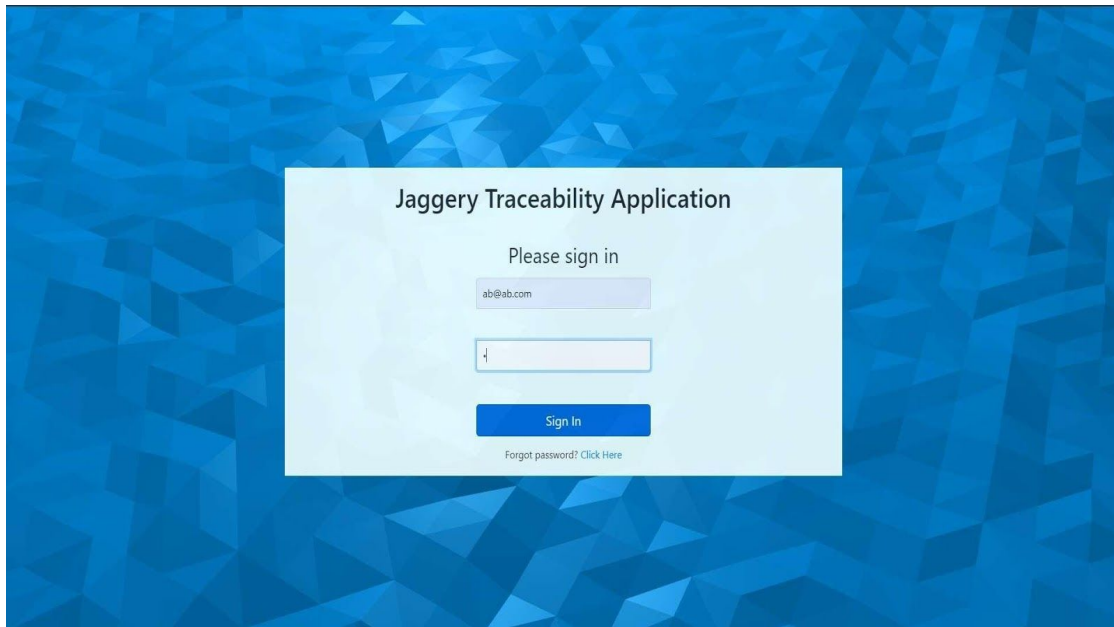
## 1. Login for valid Credentials



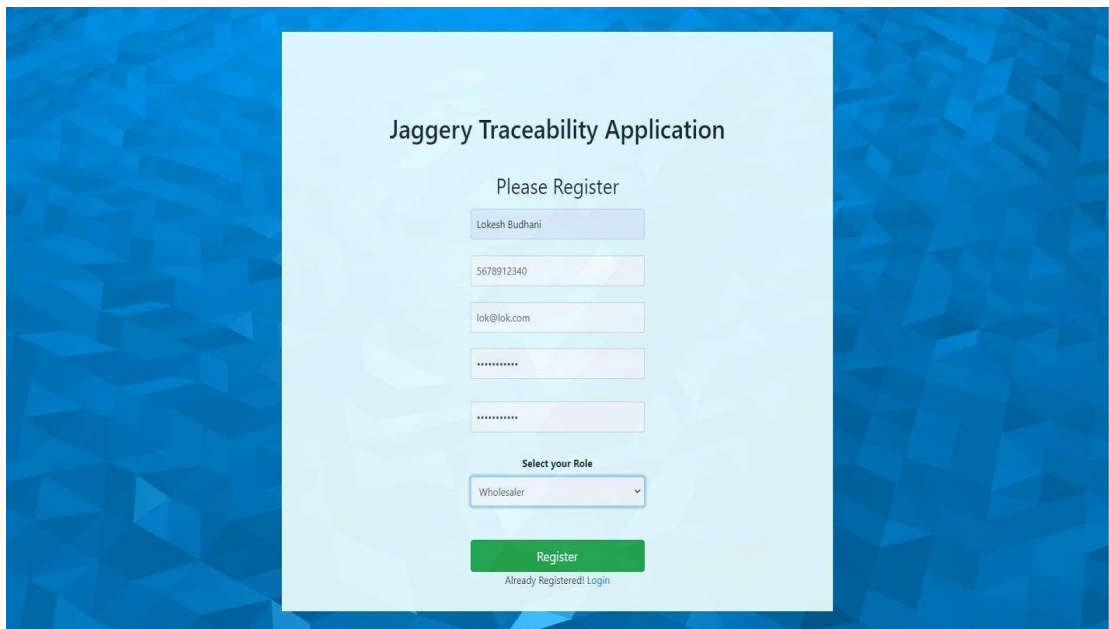
Dashboard displayed to authenticated user:



## 2. Login unsuccessful for invalid credentials



### 3. Registration successful if valid details entered



The screenshot shows a web browser window with a blue geometric background. In the center is a white registration form titled "Jaggery Traceability Application". Below the title is the instruction "Please Register". The form contains several input fields: a name field with "Lokesh Budhani", a phone number field with "5678912340", an email field with "lok@lok.com", and two password fields, both masked with "\*\*\*\*\*". Below these is a dropdown menu labeled "Select your Role" with "Wholesaler" selected. At the bottom of the form is a green "Register" button. Below the button, the text "Already Registered? Login" is visible.

Jaggery Traceability Application

Please Register

Lokesh Budhani

5678912340

lok@lok.com

\*\*\*\*\*

\*\*\*\*\*

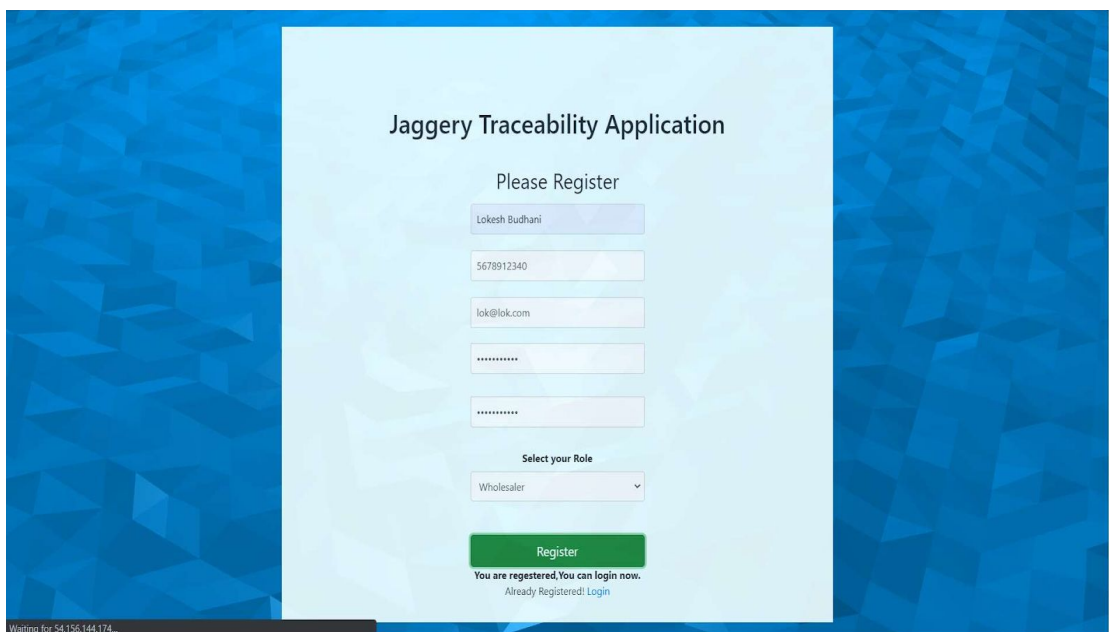
Select your Role

Wholesaler

Register

Already Registered? Login

Registration Successful



This screenshot is identical to the one above, showing the registration form. However, the "Register" button is now disabled and has a grey background. Below the button, the text "You are registered. You can login now." is displayed in a larger font, with "Already Registered? Login" in a smaller font below it. In the bottom left corner of the browser window, a status bar shows the text "Waiting for 54.156.144.174...".

Jaggery Traceability Application

Please Register

Lokesh Budhani

5678912340

lok@lok.com

\*\*\*\*\*

\*\*\*\*\*

Select your Role

Wholesaler

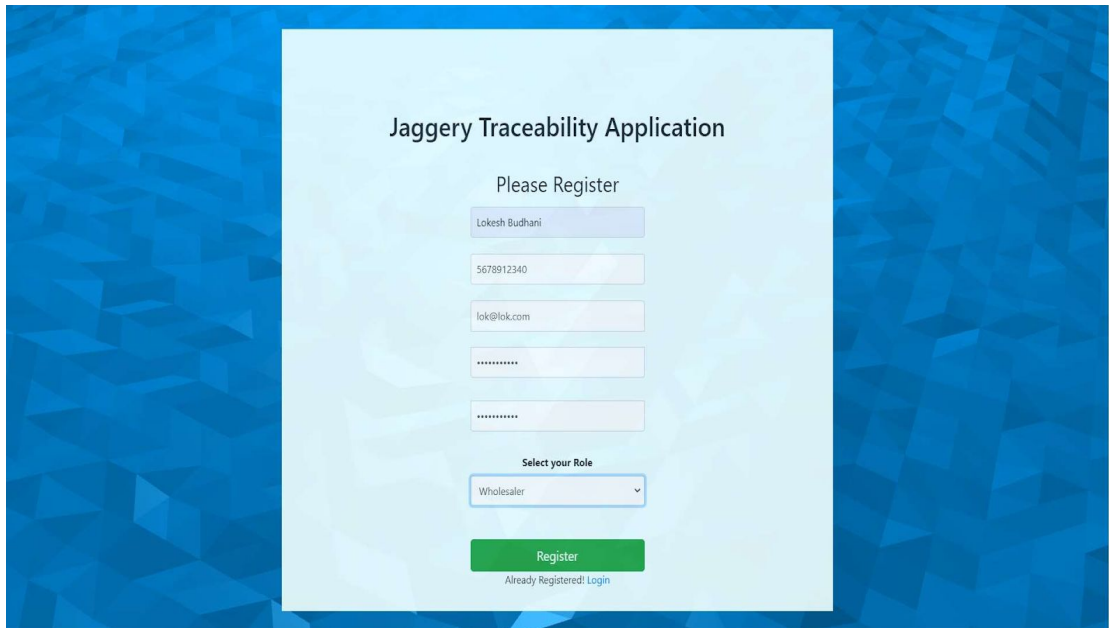
Register

You are registered. You can login now.

Already Registered? Login

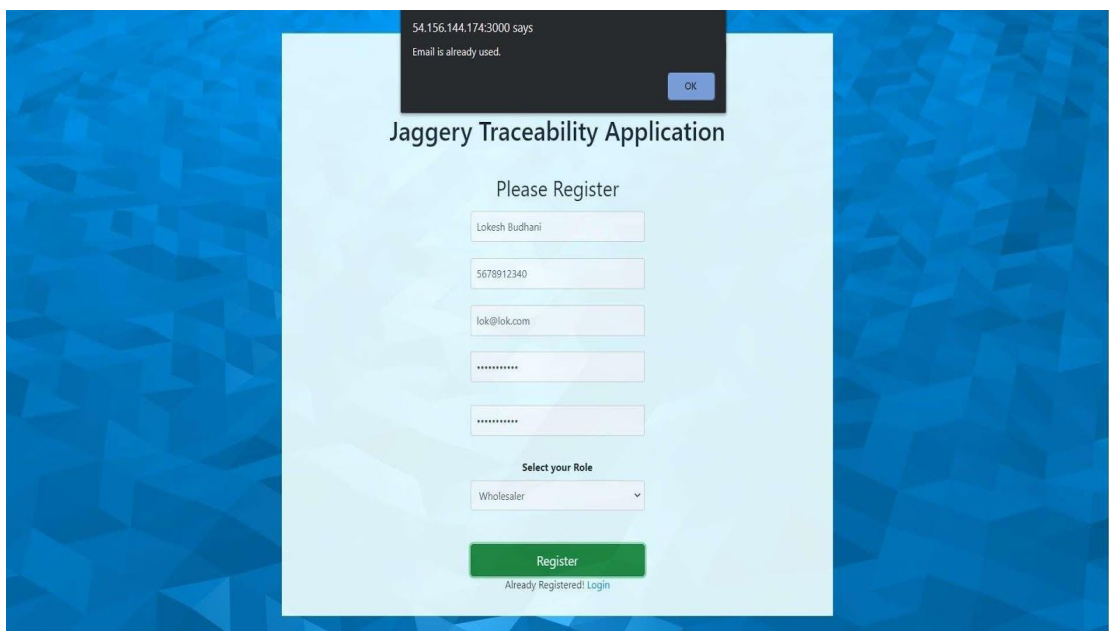
Waiting for 54.156.144.174...

4. Registration unsuccessful if invalid details entered or user already present



The image shows a registration form for the 'Jaggery Traceability Application'. The form is titled 'Please Register' and contains the following fields: a text input for 'Name' (pre-filled with 'Lokesh Budhani'), a text input for 'Phone Number' (pre-filled with '5678912340'), a text input for 'Email' (pre-filled with 'lok@lok.com'), two password inputs (both masked with dots), a dropdown menu for 'Select your Role' (pre-selected with 'Wholesaler'), and a green 'Register' button. Below the button is a link that says 'Already Registered? Login'. The form is set against a blue geometric background.

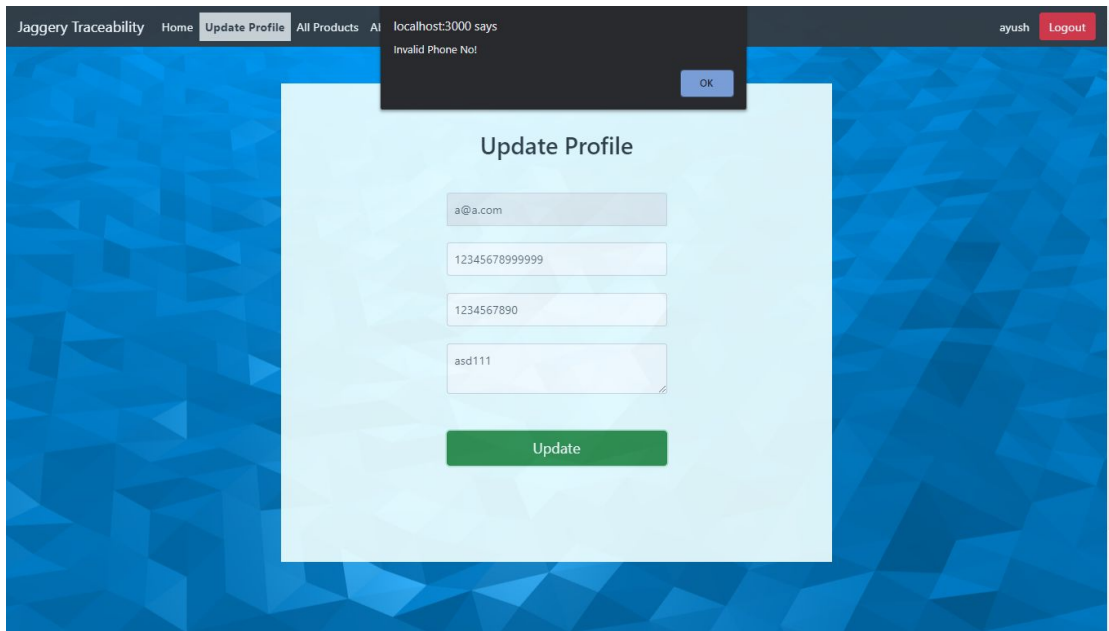
Alert generated because user is already present



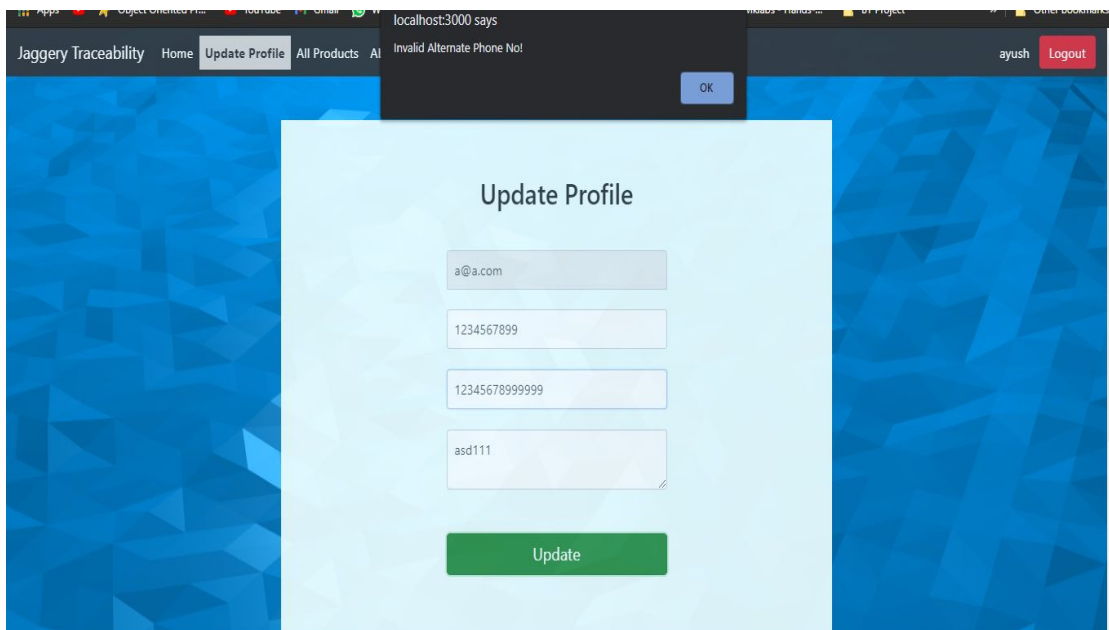
This image shows the same registration form as above, but with an error alert displayed at the top. The alert is a black box with white text that reads: '54.156.144.174:3000 says Email is already used.' with an 'OK' button. The form fields and the 'Register' button remain visible below the alert.



## 5. Update Profile with invalid phone number



Alert generated for invalid alternate phone number



## 6. Add Product By the Manufacturer

The screenshot shows the 'Add Product' form in the Jaggery Traceability Application. The form is set against a blue geometric background. The title 'Jaggery Traceability Application' is at the top. Below it, the form title 'Add Product' is centered. The form fields are: 'Solid Jaggery' (text input), '126' (text input), '5' (text input), '500' (text input), 'Expiry Date' (date picker showing '31/12/2020'), 'Fresh Solid Jaggery.' (text input), and a checked checkbox 'Is Organic'. A green 'Add Product' button is at the bottom.

Jaggery Traceability Home Update Profile About Us ayush Logout

### Jaggery Traceability Application

#### Add Product

Solid Jaggery

126

5

500

Expiry Date

31/12/2020

Fresh Solid Jaggery.

☒ Is Organic

Add Product

Product added successfully

The screenshot shows the 'Add Product' form after a successful submission. A black toast notification is displayed at the top center, reading 'localhost:3000 says Product Added !!' with an 'OK' button. The form fields are now: 'Solid Organic Jaggery' (text input), '303' (text input), '5' (text input), '350' (text input), 'Expiry Date' (date picker showing '29/12/2020'), 'Solid Organic Jaggery ....' (text input), and a checked checkbox 'Is Organic'. The green 'Add Product' button remains at the bottom.

Jaggery Traceability Home Update Profile About Us localhost:3000 says Product Added !! OK ayush Logout

### Jaggery Traceability Application

#### Add Product

Solid Organic Jaggery

303

5

350

Expiry Date

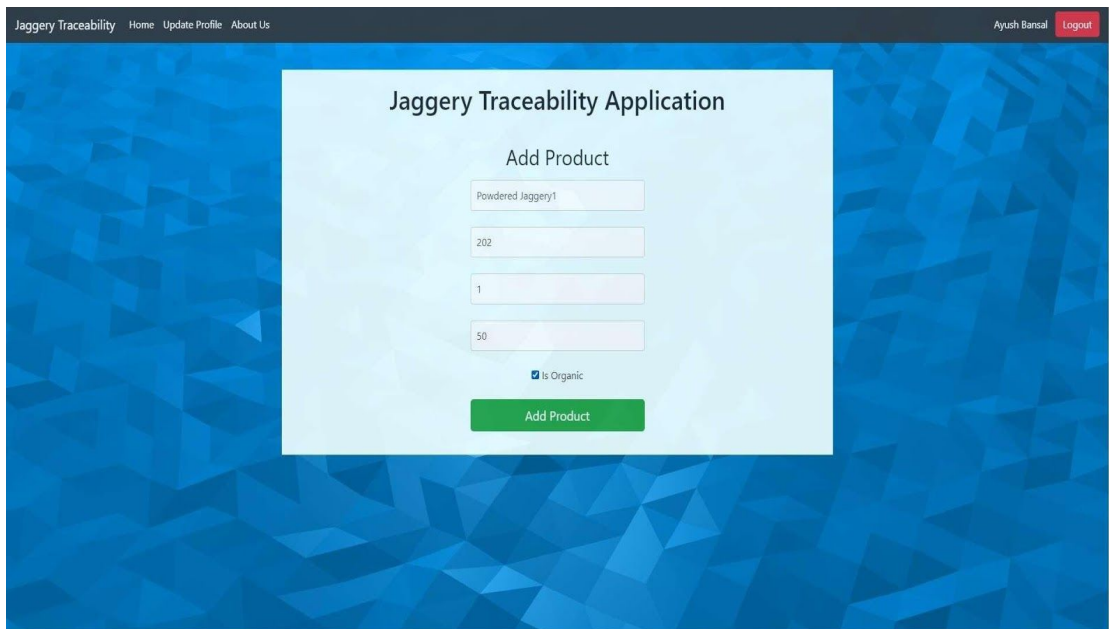
29/12/2020

Solid Organic Jaggery ....

☒ Is Organic

Add Product

## 7. Add product by Manufacturer failed as product already exists



Jaggery Traceability Application

Add Product

Powdered Jaggery1

202

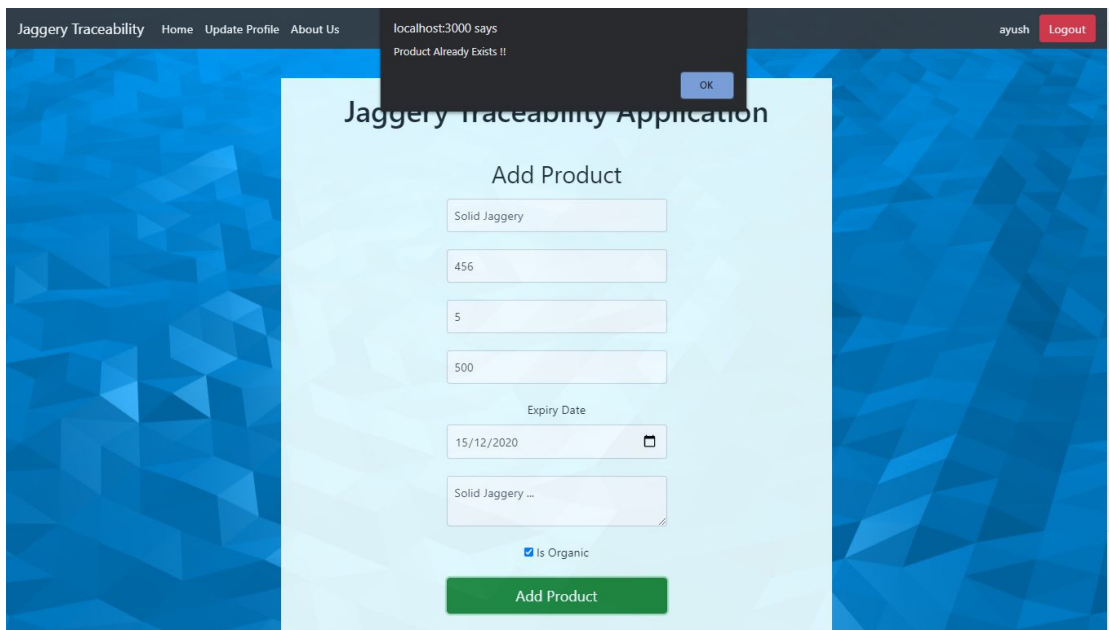
1

50

☒ Is Organic

Add Product

Alert generated as product already exists



Jaggery Traceability Application

Add Product

Solid Jaggery

456

5

500

Expiry Date

15/12/2020

Solid Jaggery ...

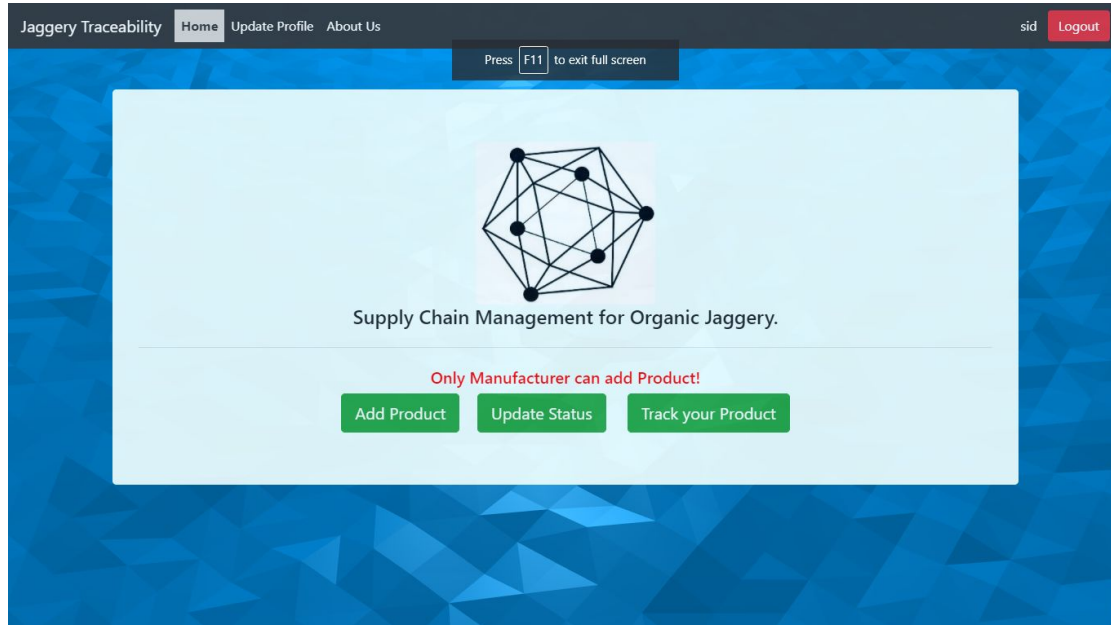
☒ Is Organic

Add Product

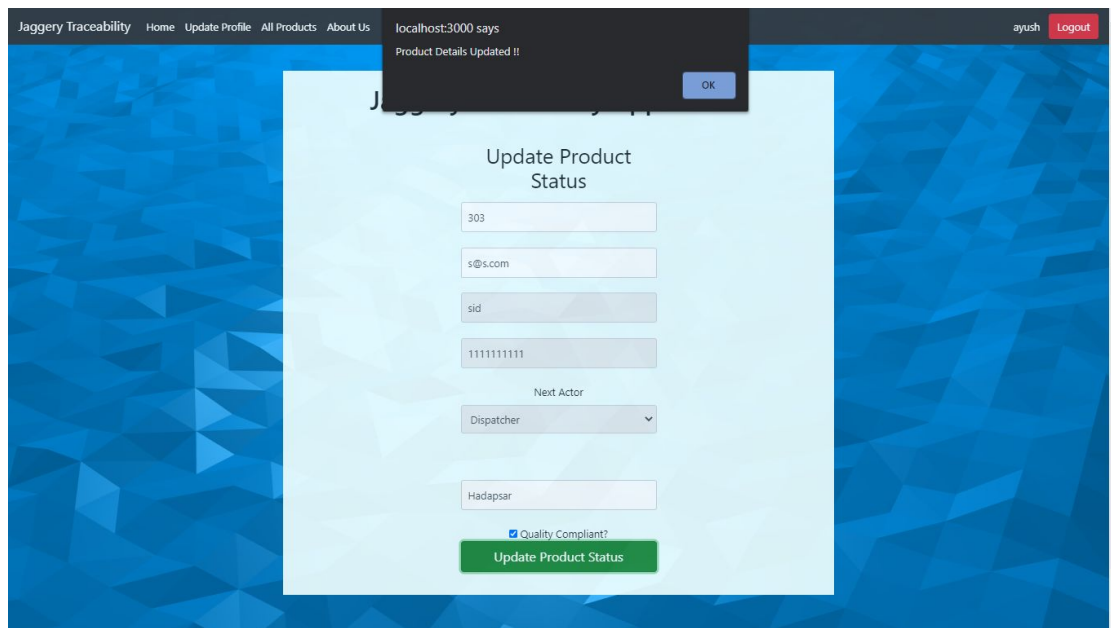
localhost:3000 says  
Product Already Exists !!

OK

## 8. Add product by any actor failed due to the authorization error



## 9. Update Status successful when done by product possessor



**10. Update Status unsuccessful when done by product possessor with invalid details**

Jaggery Traceability Application

Update Product Status

888

s@s.com

sid

1111111111

Next Actor

Dispatcher

Katraj

☒ Quality Compliant?

Update Product Status

Product Doesn't Exists

**11. Update Status unsuccessful when done by actor other than product possessor**

Jaggery Traceability Application

Update Product Status

456

s@s.com

sid

1111111111

Next Actor

Dispatcher

Katraj

☒ Quality Compliant?

Update Product Status

localhost:3000 says  
Not Allowed !!

OK

## 12. Trace product with valid product details

The screenshot displays the 'Trace Product' interface of the Jaggery Traceability application. The header includes 'Jaggery Traceability', navigation links ('Home', 'Update Profile', 'All Products', 'About Us'), and a user profile ('ayush') with a 'Logout' button. The main content area features a search bar with '688' entered and a green 'Get Status' button. Below the button, product details are listed in a two-column format:

Product ID: 688	Product Name: Solid Dark Jaggery
Product Quantity: 5 Kg	Product Price: 400
Expiry Date: 2023-02-11	Manufacturer Name: ayush
Description: Solid Dark Organic Jaggery.	Current Location: Hadapsar

A link 'Open the Quality Certificate here' is provided. Below the details, a timeline of five transfer events is shown, each with an icon, a timestamp, and a description of the transfer to a specific mobile number.

Timeline of transfers:

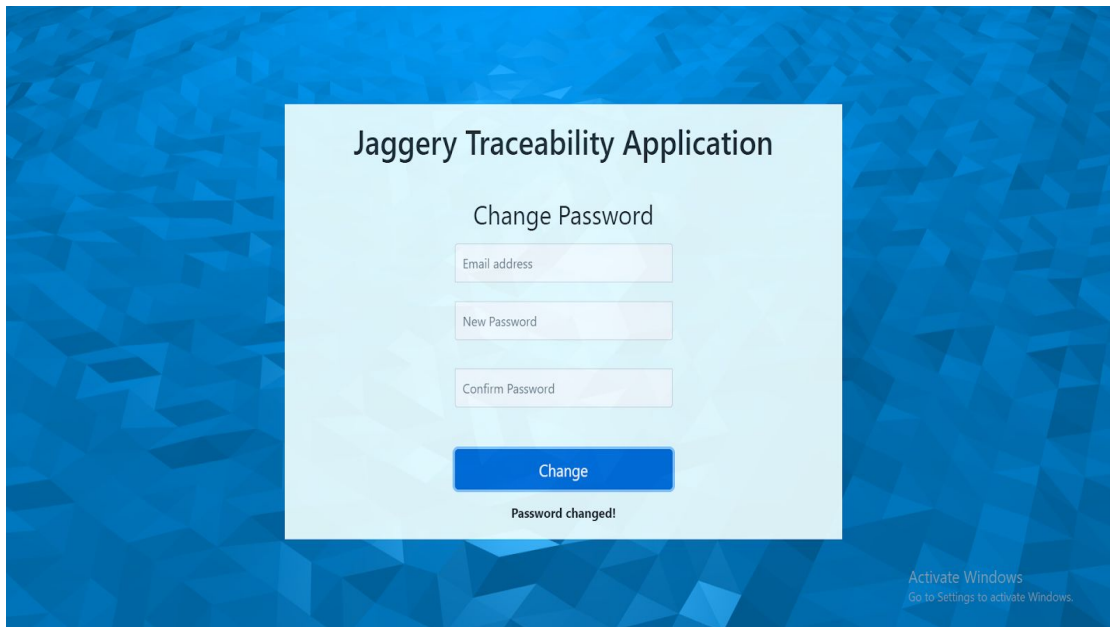
- 11/12/2020 @ 10:3:31 - Product transferred to sidd with Mobile Number: 8888888888
- 11/12/2020 @ 10:6:38 - Product transferred to lok with Mobile Number: 8888888888 With Vehicle No: M0912758718 Of Agency Ram-Agency
- 11/12/2020 @ 10:7:30 - Product transferred to sudeek with Mobile Number: 8888888888
- 11/12/2020 @ 10:8:7 - Product transferred to gide with Mobile Number: 8888888888
- 11/12/2020 @ 10:8:46 - Product transferred to siddesh Vyasaresh with Mobile Number: 8888888888

## 13. Trace product with invalid product details

The screenshot shows the 'Trace Product' interface with the search bar containing '13'. The green 'Get Status' button is visible. Below the button, the text 'Incorrect Product Code' is displayed in a large, bold font, indicating that the product details provided are invalid.



## 14. Change password



The screenshot shows a web application interface with a blue geometric background. A white modal box is centered, titled "Jaggery Traceability Application" and "Change Password". It contains three input fields: "Email address", "New Password", and "Confirm Password". Below these is a blue "Change" button. A message "Password changed!" is displayed at the bottom of the modal. In the bottom right corner of the screen, there is a small "Activate Windows" watermark.

Jaggery Traceability Application

Change Password

Email address

New Password

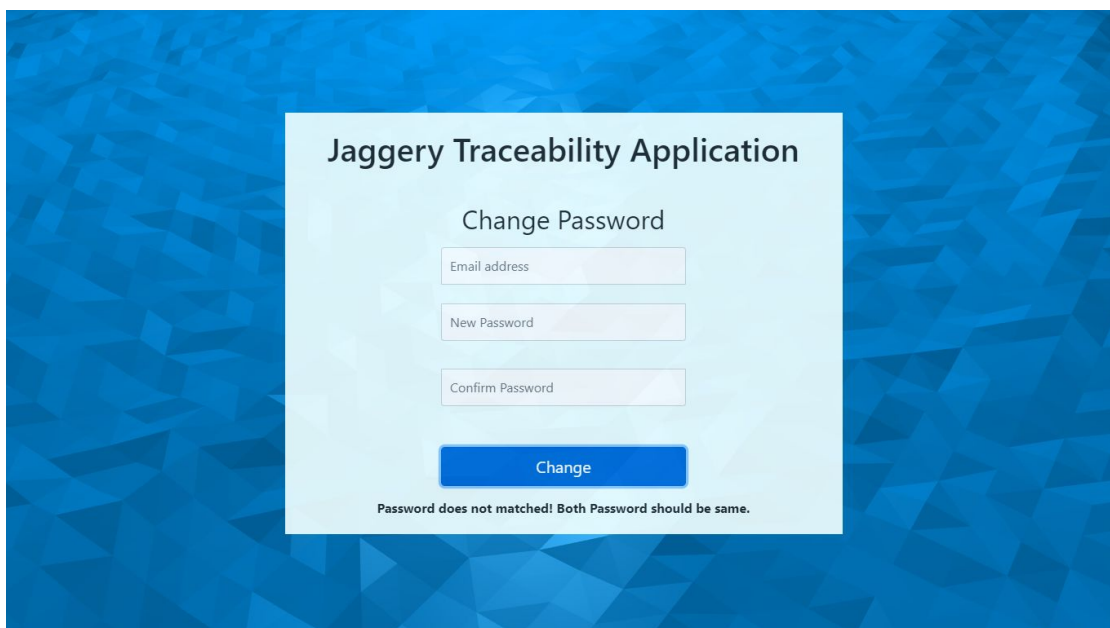
Confirm Password

Change

Password changed!

Activate Windows  
Go to Settings to activate Windows.

## 15. Change password validation



This screenshot shows the same "Change Password" form as in the previous image, but with an error message. The "New Password" and "Confirm Password" fields are highlighted with a red border. The message "Password does not matched! Both Password should be same." is displayed at the bottom of the modal.

Jaggery Traceability Application

Change Password

Email address

New Password

Confirm Password

Change

Password does not matched! Both Password should be same.

**Conclusion:**

Hence, we have performed the software testing on our project titled “Supply Chain Traceability for Organic Jaggery “ under the guidance of our project guide Dr. Priya Shelke.