# **Safety inspection**

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### **Testing scenarios:**

- 1. Testing registration and authorization
- Scenario 1: Registration with a valid password and email
  - Registration is successful and the user is able to login
- Scenario 2: Registration with a valid, already registered email
  - Error message is displayed, mentioning that the email is taken.

**Scenario 3**: Registration with an empty/incorrect email, an empty password, or both

• If there is an empty input, don't allow to continue unless the user fills the input, else error message is shown

Scenario 4: Login using a valid email and password:

• Login is successful and the user is redirected to the main page

Scenario 5: Login with an empty/incorrect email, empty password, or both

• Error "The email address or password you entered is incorrect. Please try again."

#### 2. Testing search and filters

Scenario 1: Search for an existing product in the database by the correct name

• The product will be displayed on the page

**Scenario 2:** Search for an existing product in the database by the incorrect name or search for a non-existent product

• The message "Product not found" will be displayed

Scenario 4: Click on "See details" on the product icon

• The product page with details will be displayed

Scenario 5: Click on "See Case URL" on the product icon

• The official report page with details will be displayed

### 3. Testing barcode scanning

Scenario 1: Scanning a product barcode from the database

• Displays the relevant product information

**Scenario 2**: Scanning a product barcode not from the database by an authenticated user

• Displays the product barcode page where you can optionally enter the product information and add it to a personalized list

**Scenario 3:** Scanning a product barcode not from the database by an unauthenticated user

• Displays the product barcode page

Scenario 4: Scanning an invalid barcode

• Displays an error message

Scenario 5: Scanning a barcode with camera access disabled

• Message "No camera found"

#### 4. Testing a personalized list

Scenario 1: No products were added

• Message "No products found"

Scenario 2: A product was added

Product information is displayed

Scenario 3: Clicking on the "Edit" button on a product

A screen is displayed with the option to edit product information

**Scenario 4:** Clicking on the "Delete" button on a product

Product is deleted

#### 5. Testing the notification service

Scenario 1: A product from the list was added to the database

• A notification is sent to the user's email that the product has become defective

#### 6. Web Scraping Testing

**Scenario 1:** As an administrator, click "Scrap sites" on the home page when both sites are available

- The server returns prints how the scraping is coming along
- The data is uploaded into the database
- Message indicating that the scraping has ended

#### 7. Testing a scan history

Scenario 1: No products have been scanned by the user

• Message "No scans found"

Scenario 2: User scans a product

• Time, date, name and barcode are displayed

**Scenario 3:** Clicking on the "Product page" button (non defective)

• User is redirected to personalized list

**Scenario 4:** Clicking on the "Product page" button (defective)

• User is redirected to product page of the defective product

## **Matrix Coverage:**

ID	Requirement	Implemented In	Tested In Scenario
1	The application must support barcode scanning via desktop webcams and mobile device cameras.	Barcode Scanner  Camera was not found	3

		Barcode Scanner	
2	Guest users must be able to search products by their name	Search for defective products Type and press enter to filter names of defective products by your input.  Enter product name	2
3	Guest users must be able to scan barcodes	Barcode Scanner	3
4	The system requires access to the camera.	http://localhost:9000 wants to ×  Use your cameras  Allow while visiting the site  Allow this time  Never allow	3
5	Alert users if webcam access is denied and provide instructions to enable it.	Barcode Scanner Camera was not found Scan the harcode  http://localhost:9000 wants to ×  If Use your cameras  Allow while visiting the site  Allow this time  Never allow	3

6	Notify users if the scanned barcode format is invalid or unrecognized.	Barcode Scanner	3
7	Provide feedback if no barcode is detected after a certain time period.		3
8	Barcode scanning must extract and display embedded data in real-time.		3
9	After a successful scan, the system will display whether the product is defective or not defective.	Barcode Scanner  Not Found  Barcode: 0522100847557  Name (mandatory)  Description (optional)  Brand (optional)  Add to personalized list  Cancel	3
10	Scanning a defective product will display all available information about said product.	Barcode Scanner  Defective Name: aaa Barcode : 0810181620029 Info: null  See Details  Scan product's barcode  **Barcode Scanner  Defective Name: aaa Barcode: 0810181620029 Info: null Hide Details  Alert Number: null Case URL: null Product category; rull Brand: null Model type number: null Batch number: null Company recall code; null Slath huma: ruil	3

11	Scanning a non-defective product will display an option to add it to a personalized list.	Barcode Scanner  Not Found  Barcode : 0522100847557  Name (mandatory)  Description (optional)  Brand (optional)  Add to personalized list  Cancel	4
12	Guest users must be able to register via a google id	Log In Sign Up  Email Enter your email address  Password Enter your password  Confirm Password  Confirm Password  Create an Account	1
13	Registered users must be able to log in.	Log In Sign Up  Email Enter your email address  Password Enter your password  Log In Forgot Password?  Scan product's barcode	1
14	Registered users who have logged in must have the option to add scanned non-defective products into a personalized list.	Barcode Scanner  Not Found  Barcode: 0522100847557  Name (mandatory)  Description (optional)  Brand (optional)  Add to personalized list  Cancel	4, 6
15	Registered users must be able to view the history of previously scanned products.	Scan History  (iii) Scan Initiative Mission Initiative	7
16	Inform users if a search returns no results instead of showing an empty page.	eign Search (3)  Board Regula No corons  Indiana hard	2

17	Registered users, will be notified via email if the products in the personalized list have been added in the defective product database.	safety.inspection.team@gmail.com licrus me v  Dear User,  We have identified the following products you submitted as defective:  - http://localhost.1999/ProductPage.cha?n4:119172  - http://localhost.1999/ProductPage.cha?n4:119190  res  4n Odpovedaf	5
18	Admin users can trigger a scraping program to retrieve product data from the web.	Search for defective products Type and press enter to filter names of defective products by your input.  Enter product name  OR  Scan the barcode Scan the barcode to check if it is found in the database Additionally, you can add it to your personalized list to receive future alerts.  Scan product's barcode  OR  Scrape Sites and send notifications	6
19	Integrate a suitable barcode scanning library or API for real-time detection.	HTML library Quagga was used	3
20	Implement a data scraping service to retrieve product information from designated websites and compile the data into a database.	CQ Bronger frien	6