Admin will be the only user

**Interface to add a New product (Task 1)**

1. Scan barcode of a product: A admin will scan the barcode of the products using Mobile Cam, Tablet Cam, or Webcam.

2. The product is not found in the database. Add information about the product using Product Editable Interface for all the entries of the database

4. Search the product image using Google/Bing/Yahoo Image API/ from PC /camera

5. On selecting the Image from the list of search results, save the image into the storage for the selected product.

6. Export the updated CSV from the database

**Inventory Management and Digitization using CSV (Task 2)**

* 1. 1. Import CSV to the Web App (sample CSV is required) a. Create Database entries for each product from the CSV
  2. b. The objective is to add an image to each product
  3. c. Make sure that the existing product shouldn’t be changed or modified, however, the system should identify if there is any changed information from the existing entry against a barcode.
  4. 2. Functionality
  5. a. A worker will scan the barcode of the products using Mobile Cam, Tablet Cam, or Webcam
  6. b. Search the barcode in the database.
  7. c. The searched product will be displayed for image selection and information update, i.e., product editable interface for all the entries of the database.

d. Image selection can be of three ways

i. From the web: Search the Product Image using Google/Bing/Yahoo Image API

ii. From the PC: upload a file from the hard disk

iii. Capture using a mobile cam, tablet cam, or webcam

e. Also, allow the user to update the product information as well as quantity available in the store

3. Export the updated CSV from the database

**Inventory update from Shipment (Task 3)**

1. When a new shipment is received at the store. Barcode scanning capability will help update the inventory information.

a. Cartons (boxes) of each product have information about barcode as well as quantity.

b. By scanning the barcode, we can update the quantity of the product.

**Action Items**

● Please complete the tasks according to the task numbers listed above

● The system should be developed using **LARAVEL Framework**

● It will be deployed on the **AWS Light Sail**.

**Deadlines**

● Deadline 1: **November 25** for Milestone 1 & Milestone 2 Deployed on the server.

● Deadline 2: **December 2** for Milestone 3 and Deployment

**Resources**

1. <https://serratus.github.io/quaggaJS/>
2. Search for better image api