**Software Requirements Specification (SRS) Document**

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|  | Computer Vision Application for Real-time Multi-modal Product Detection  Team 33  Aanvik Bhatnagar, Chetan Mahipal, Badarla Rohan Naidu  Rohan Rathee, Rohan Shridhar |

# Brief problem statement

The current application has technical complexities and lacks a user-friendly interface for product detection using CV algorithms. The problem deals with creating a premium **user interface** which is readily deployable and shareable. To address this, the usability and robustness of the app must be enhanced. The solution we propose is a new version of the app with self-explanatory steps of usage, which would be error-free, readily demonstrable and flexible to future changes in code and design. The scope of development also includes optimizing the user interface, ensuring a seamless and responsive experience. Leveraging cloud computing, the app would provide swift results to users parallel and concurrently. The primary objective is to make this powerful CV capabilities accessible through a user-friendly mobile platform. We also aim to create extensive documentation for future reference.

# System requirements

Replace this text and the instructions below with your statement in black.  
(Identify the system requirements for your solution. If you require particular technologies, languages and libraries, list them as well).

# Users profile

*Replace this text and the instructions below with your statement in black.*  
(Identify who will be using the system, in what mode, and their profile in terms of familiarity with using computers and such software).

# Feature requirements (described using use cases)

**Read the instructions below and fill in the table. Delete all the blue text turning it in.**

(This is a numbered list of use cases that are the features of the system to be implemented. Each use case is an operation that the user can perform on/with the system. For each use case, provide a description (2-3 sentences) so you know what to build and so you can write a test case to demonstrate that your system provides that feature. For each use case, you will identify (during release planning) the release in which it will be implemented: R1 or R2. Typically, your project will have 10-15 use cases, but feel free to add or delete table rows if you decide to use finer-grain or coarse-grain use cases).

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **User Case Name** | **Description** | **Release** |
| User Management | | | |
|  | Create account | Users can create account by adding email, password and username |  |
|  | Login | Users can go into the page with their login credentials, to experience this app |  |
|  | Forgot password |  |  |
| Home Page | | | |
|  | Displaying objects in home page | In the home page, items are being shown which are scanned to easily access them |  |
|  | Bookmark | For each item, bookmark button is present so that user can separate which are useful and which aren’t |  |
|  | Filter | Users can filter with respect to ID or date or status for finding the item easily |  |
|  | Description of object | For each item its properties also shown like its ID, created date and status of it whether it is detected or not |  |
|  | Info | In the home page, there is an ‘ i ’ button, on clicking you will get about info of the app |  |
|  |  |  |  |
|  | Nav bar for the app | On every page, nav bar is shown with 5 items: Home page, search, scan, settings, profile |  |
|  |  |  |  |
|  | Search item | There is a search option in nav bar so that user can find item much efficiently than above |  |
|  | Settings | There is a setting page from which you can enhance your app responsive to you |  |
|  | Profile | Your information will be showed in this page like your name, email, account created on and logout |  |
|  | Scanning image | You can capture “image or video” and it will detect the items in the image in its corresponding item page |  |
| Order Description | | | |
|  | Identified Order(s) Table |  |  |
|  | Quantity Modification |  |  |
|  | Quantity Status |  |  |
|  |  |  |  |

**Use case diagram**

**Read the instructions below and fill in the table. Delete all the blue text before adding this to your repository or turning it in to your instructor.**

Draw the UML use case diagram for the system. Make sure the use cases shown in the diagram correspond to the use cases described in the previous section.

**Use case description**

**Delete all the blue text and fill-in the template before adding this to your repository or turning it in to your instructor.**

|  |  |
| --- | --- |
| **Use Case Number:** | UC-XX (Replace XX with a number) |
| **Use Case Name:** | Enter the name of Use Case |
| **Overview:** | Describe the purpose of the Use Case and give a 1-2 line description. This could be the same as the description provided in feature requirements section. |
| **Actors:** | List all actors that participate in this Use Case. |
| **Pre condition:** | Enter the condition that must be true before the main flow is executed. |
| **Flow:** | Main (success) Flow: Steps should be numbered. |
|  | Alternate Flows: Include the post condition for each alternate flow if different from the main flow. |
| **Post Condition:** | Enter the condition that must be true when the main flow is completed. |