

Requirements

Platforms

The front-end and backend must work on Linux and Windows.

Technical Requirements

- Backend Server Language – Python
- Frontend Language - Python

Application Requirements

The application will have the following views:

- Menu Prompt
- Classify Prompt
- Annotate Trash Prompt
- Trash description Prompt
- Settings Prompt
- About Prompt

Menu View

```
Menu
1. Classify Trash
2. Annotate Trash
3. Trash Info
4. Settings
5. About
6. Quit
Option:
```

Classify View

```
Classify Trash
1. Classify Live Webcam
2. Classify Webcam Capture
3. Classify File/Folder
4. Back to Menu
Option:
```

Annotate View

```
Annotate Trash
1. Annotate Webcam Capture
2. Annotate File/Folder
3. Back to Menu
Option:
```

System Requirements

FRs- Based on the project description and the Use Case model, list all system functional requirements.

Number the Functional Requirements (FR1, FR2, FR3, etc.) in a systematic manner.

FR1. Any user data must be stored on the user-end or in the backend servers.

FR2. Trash data must be classified by type.

FR3. The model must be tested to be at least 75% accurate on our validation and test datasets.

NFRs - system attributes such as usability, reliability, and performance, etc.

NFR 1. Implement minimum features and create a view for details of the scanned object.

NFR 2. It should be easily maintainable and serviceable throughout its lifespan and development.

NFR 3. It should be able to handle usage by a few users, each varying in status and with differing uses of the system.