

PROJECT PLAN DOCUMENT

(Due: 31st January, 2024)

Project number	33
Project Title	<i>Computer Vision Application for Real-time Multi modal Product Detection</i>
Document	Project Plan
Creation date	<i>30/1/24</i>
Created by	<i>Badarla Rohan Naidu</i>
Client	<i>Chaitanya Sagar, Perceptive Analytics Ltd.</i>

Brief problem statement

Many struggle to utilize advanced computer vision (CV) algorithms for product detection due to technical complexities and lack of user-friendly interfaces. To address this, we propose developing a mobile app that interfaces with powerful CV algorithms, offering still image recognition and real-time video analysis. Leveraging cloud computing, our solution aims to provide swift and accurate results directly to users' mobile devices. The product at the end of the project would be a user-friendly app with robust app architecture and delightful UI.

Team Members

- **Aanvik Bhatnagar** – Developer
- **Chetan Mahipal** – Developer
- **Rohan Shridhar** - Developer
- **Badarla Rohan Naidu** - Developer
- **Rohan Rathee** - Developer

Team Communication

- Regular communication about the project is going in slack. Sharing of files is being done in Dropbox.

- Project meetings with clients are held thrice a week (Monday, Wednesday, Friday) regarding any queries and suggestions.
- The team meets among themselves when required.

Development Environment

- Expo Go – Running interface
- React native - Frontend
- Nodejs- Backend
- Flask - Backend
- GitHub – Source code management

Milestone Schedule

Milestone	Due Date	Release	Deliverable?
<i>Create Draft requirements</i>	25/02/24	R1	Yes
<i>Finalize requirements</i>	28/02/24	R1	Yes
<i>Set up mobile app structure</i>	20/02/24	R1	Yes
<i>Frontend development of mobile app (Phase-1, Home, and Camera Page)</i>	08/03/24	R1	Yes
<i>Backend development of mobile app (Phase-1, Home, and Processing)</i>	10/03/24	R1	Yes
<i>Frontend development of mobile app (Phase-2, Item's Page, Image Viewer)</i>	14/03/24	R1	Yes
<i>Backend development of mobile app (Phase-2, Item's Page, and Image Viewer)</i>	16/03/24	R1	Yes
<i>Initial Release to Client</i>	16/03/24	R1	Yes
<i>Release-1 Project</i>	18/03/24	R1	Yes
<i>Test Stability (Image Analysis)</i>	23/03/24	R2	Yes

<i>Real time testing (Capture and Upload Images)</i>	27/03/24	R2	Yes
<i>Frontend development of mobile app (Phase-3, Video Viewer and Controls)</i>	02/04/24	R2	Yes
<i>Backend development of mobile app (Phase-3, Video Analysis and Viewer)</i>	04/04/24	R2	Yes
<i>Test Stability (Video Analysis)</i>	06/04/24	R2	Yes
<i>Frontend development of mobile app (Phase-3, Improvements in Design0)</i>	07/04/24	R2	Yes
<i>Backend development of mobile app (Phase-3, AWS)</i>	12/04/24	R2	Yes
<i>Real Time Testing (AWS)</i>	13/04/24	R2	Yes
<i>Backend development of mobile app (Phase-3, Algorithm Update)</i>	15/04/24	R2	Yes
<i>Documentation</i>	19/04/24	R2	Yes
<i>Improvements and Final Closing and Testing</i>	19/04/24	R2	Yes
<i>Final release</i>	20/04/24	R2	Yes