

TEAM MISSION POSSIBLE (deadly by name & game)

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TEAM



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<u>Manager</u>



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Project Description

The Supermarket Theft Detection System is a cutting-edge solution that utilizes advanced computer vision and machine learning algorithms to monitor and analyze customer behavior, identifying potential theft incidents in real-time. The system integrates with existing CCTV cameras for real-time video monitoring, detects objects being removed from shelves, and uses facial recognition to identify repeat offenders. It sends real-time alerts to security personnel via mobile app or email, enabling prompt response to potential theft incidents. Additionally, the system provides detailed analytics on theft incidents, allowing supermarket managers to identify patterns and trends, and make data-driven decisions to improve security protocols.

Objectives

This project has countless applications, each for its unique use, ranging from maintaining vigilance during activites to tagging vehicles on tolls. Our model mainly abbreviates on maintaining vigilance in supermarkets due to limitations in knowledge and experience. We look to achieve the following objectives —

- To minimize/eradicate store theft
- To maximize profitability of store
- To increase safety of store personnel by early detection and warnings
- To make shopping seamless and convenient for customers
- To reduce operational costs

PERSONA - UNO

Meet officer James, a seasoned security personnel in his late 30s, responsible for ensuring the safety and security of a large retail complex. With years of experience, he understands the importance of being proactive and responsive to potential threats. However, with the vast area to cover and limited resources, it's a daunting task to keep a watchful eye on every corner of the market.

Our surveillance system software is designed to empower Officer James with advanced tools to enhance his security operations. With features such as real-time video monitoring, facial recognition, and alerts, he can quickly identify and respond to suspicious activity, track individuals, and prevent potential threats. The software also allows him to review footage, generate reports, and collaborate with other security personnel, making it easier to investigate incidents and improve overall security protocols. This enables officer James to provide a safer and more secure environment for customers and employees.



PERSONA - DOS

Meet Mr. Wong, a diligent shop owner in his mid-40s, who runs a bustling convenience store in a busy neighborhood. With a keen eye for detail, he takes pride in ensuring the safety and security of his customers, employees, and merchandise. However, with the increasing number of customers and transactions, it's becoming challenging for him to keep a watchful eye on everything. That's where our surveillance system software comes in. Our software is designed to provide Mr. Wong with a comprehensive and userfriendly solution to monitor his store's activities in real-time. With features such as live video feed, motion detection, and alerts, he can keep a close eye on his store from anywhere, at any time. This will enable him to respond promptly to any suspicious activity, prevent theft, and ensure a safe shopping environment for his customers.



PERSONA - TRES

Meet Ms. Rodriguez, a busy supermarket manager in her early 40s, responsible for overseeing the daily operations of a large grocery store. With a keen focus on customer satisfaction and operational efficiency, she strives to ensure a seamless shopping experience for her customers. However, with the constant flow of customers and employees, it's challenging to monitor every aspect of the store. Our surveillance system software is designed to support Ms. Rodriguez in optimizing her store's operations and enhancing customer experience. With features such as people counting, heat mapping, and dwell time analysis, she can gain valuable insights into customer behavior, identify bottlenecks, and optimize store layouts. The software also enables her to monitor employee activity, track inventory, and receive alerts on potential security threats, allowing her to respond promptly and make data-driven decisions to improve overall store performance and customer satisfaction



Tools

Frontend

Backend

Database

IDE & Additional Tools Communication

JS















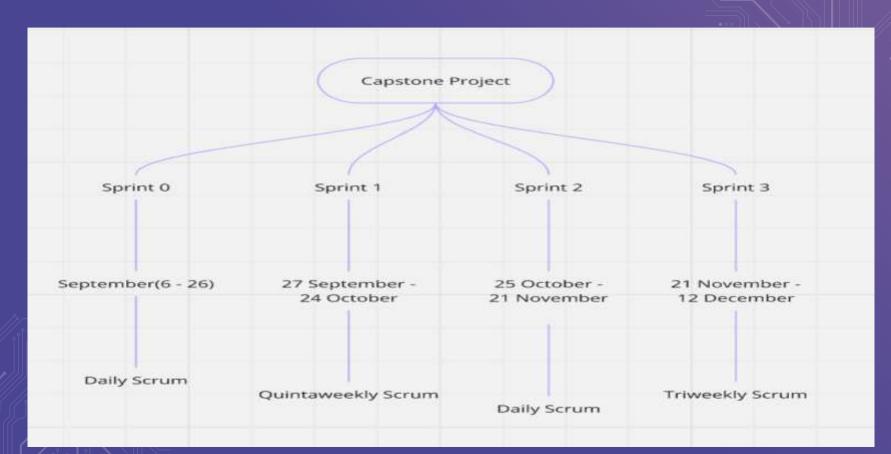








Schedule



Team Agreement

Following were discussed and put into mutual agreement amongst peers with no exceptions to be made -

- We will communicate regularly via our designated platform (i.e Whatsapp, Google meet) and have weekly check-ins to discuss progress and any challenges.
- Each team member will have defined roles based on strengths and interests (i.e. coding, documentation, testing), which will be agreed upon at the start of the project.
- We will set clear deadlines for each project phase and milestone. All members agree to adhere to these timelines to ensure project progress.
- We will adhere to coding standards and best practices (e.g., comments, formatting) to ensure code is maintainable and understandable by all team members.
- Each team member is responsible for their tasks and must communicate any issues or delays as soon as possible to the group.
- In case of disagreements, we will address conflicts openly and respectfully, seeking to find a solution that works for everyone.
- We will collaboratively prepare a final presentation and ensure that all project documentation is complete and accessible.

Retrospective

What went well?

What needs to be improved?

What will we do next time?

Effective Communication

Time Management

We will streamline our ideas more effectively and efficiently for better usage of time.

Role Clarity

Conflict Resolution

We will resort to, whole team mediating the situation rather than just the leader doing so.

Supportive Environment

Documentation

Instead of assigning a single person for the job, we will ask random members to volunteer if and when needed.

Thanks!

Do you have any questions?

