

Team Name: Synthura

Completion Date: 5/8/24

Revision Number: 1

Revision Date: 4/27/24

Sprint 2 Plan

Goal:

Produce an application that allows users to connect multiple live video feeds to our user interface. Once a camera is streaming on our platform, computer vision models should be able to provide a basic description of the scene.

Task Listing:

1. As a business owner, I want the ability to display multiple cameras on a single screen so that one surveillance operator can monitor a large area of my business operations. [5]
 - Create a dynamic camera grid that can add/remove video frame components as needed (3 hours)
 - Setting up connections from users' devices to display in video frame components. Conversely, safely disconnect from users' devices when deleting a video frame. (7 hours)
2. As a security guard/surveillance operator, I want to receive real-time analytics of the current scene so that it is easier to identify danger. [8]
 - Refine computer vision models for object detection (6 hours)
 - Feed video frames from users' devices to computer vision models and send results back to user interface (2 hours)
 - Display important data gathered from computer vision models in a user-friendly format (5 hours)

3. As a business owner, I want to receive email alerts for potentially dangerous situations at a particular scene [3]

- Set up database to store a user's email address and other essential information (5 hours)

Team Roles

Levi - Machine Learning Engineer, Backend Developer

Zachary - Machine Learning Engineer, Backend Developer

Jerry - Machine Learning Engineer

Githika - Frontend Developer

Nam - Frontend Developer, Database Administrator

Owen - Frontend Developer, Backend Developer

Initial Task Assignment

Levi - User Story 2, Task 1

Zachary - User Story 2, Task 2

Jerry - User Story 2, Task 2

Githika - User Story 1, Task 2

Nam - User Story 3, Task 1

Owen - User Story 1, Task 2

Scrum Times

Team Meetings: Mondays, 9am-12pm

TA Meetings: Wednesdays 12-1pm

Scrum Board

<https://trello.com/b/TtMoO0Ht/synthura-scrum-board>

Initial Burnup Chart

