

Sprint 2 Report

Synthura

5/8/2024

Actions to STOP Doing

Meeting together once a week

- One of our goals coming into this sprint was to improve communication with one another. Although we set up a discord server with a multitude of chat spaces for discussion, most of our planning and updating occurs in our weekly meetings. This means that we only have one day to prepare for a densely packed week of work.

Actions to START Doing

Meeting together throughout the week (semi-conventional SCRUM meeting)

- This is a relatively complex project that requires everybody to be on the same page. Additionally, there is a limit to a text message's ability to convey and clarify complex questions. Our group should meet more often (whether in-person or over voice chat) for a small duration to ensure that we all understand the task at hand, our individual responsibilities, and each other's current progress.

Utilize our SCRUM Board

- Whenever a user story is complete, we inform the discord chat and push/merge the changes to our git repository. Updating the SCRUM board is an after-thought which makes it harder to track our progress over time. In addition to updating the lifecycle of our user stories, we would also benefit from using Trello's features to assign people to user stories, provide more detailed descriptions of a user story, and more.

Actions to KEEP Doing

Maintaining a clean code base

- Our github has a branch for each major feature of our product. The branch names clearly define its purpose and it has made merging to the main source code a seamless process. Additionally, the source code itself is well-documented, easy to read, and, most importantly, easy to understand.

Work Completed/Not Completed

Completed:

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)

Not Completed:

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)

Work Completion Rate

- User Stories Completed: 1
- Ideal Work Hours Completed: 18
- Total Number of Days:
 - Sprint 1: 16 days
 - Sprint 2: 14 days
 - Total: 30 days
- User Stories/Day and Work Hours/Day
 - Sprint 1: 1/8 user stories a day, 1 work hours a day
 - Sprint 2: 1/14 user stories a day, 9/7 work hours a day
- Average User Stories/Day and Work Hours/Day
 - ~1/10 user stories a day, 8/7 work hours a day
- Final Burnup Chart:



