

## Release Summary

Synthura

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### Key User Stories:

1. I want a website where I can login, connect my camera, and have detailed object labeling and tracking. [4 story points]
  - a. **Acceptance Criteria:** Users can login to a website with a username and password.
    - i. **Given:** A valid username and password
    - ii. **When:** User requests to sign in
    - iii. **Then:** User can access connected cameras, add or remove cameras, and view camera details
2. I want an info feed where I can see present items and detect motion. [2 story points]
  - a. **Acceptance Criteria:** Users can view information feed with information on detected items and motion.
    - i. **Given:** A valid Google Account
    - ii. **When:** User presses "Main Page" button
    - iii. **Then:** User can access connected cameras and view camera details

3. I want to be able to connect multiple cameras for my easily accessible security cluster, using the feature of add / delete camera, and then connect / disconnect camera. [5]
  - a. **Acceptance Criteria:** User can add and delete cameras.
    - i. **Given:** A valid camera ip address
    - ii. **When:** User presses add or delete camera buttons
    - iii. **Then:** A live video feed from camera is provided
4. 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]
  - a. **Acceptance Criteria:** User can view a continually updating list of information about the scene captured by cameras.
    - i. **Given:** Live video feed from camera
    - ii. **When:** User has added a camera
    - iii. **Then:** A list of objects detected by the camera is shown
5. As a general user, I want each page to have an updated UI with finalized functionality. [5 points]
  - a. **Acceptance Criteria:** User can access recordings page to view saved recordings.
    - i. **Given:** A live video stream
    - ii. **When:** User clicks "Recordings Page" button
    - iii. **Then:** New page showing saved recordings of videos is shown.

**Known Problems:**

1. Inputting an invalid ip address in the “Enter Camera IP” textbox will create a box where video would usually show. However, since the ip address is invalid, no video is shown.
  - a. Hitting save video will also say its uploading, but there’s no video to upload
2. If a camera is turned off without removing the camera from the website, a still image of the last frame will be shown. Removing the camera will fix this.
3. Reloading page will remove added cameras
4. Moving from environments page to recordings page causes tutorial to pop up even if you’ve done the tutorial already or skipped it

**Product Backlog (listed by priority in descending order):**

1. As a user who’s not constantly watching their cameras, I want email alerts so that I can be notified about potentially dangerous scenarios. These should detail which environment, cluster, and which camera it was in. Registering what time it happened and what set it off, example: a knife. [3 points]
2. As a user, I want additional detailed security analytics and thought-out research, because I need deeper insights and data-driven decisions to enhance security measures and strategic planning. [3]
3. As a user, I want the ability to track and search footage details via a feed based on tags or specific information, specifically to locate footage involving potentially dangerous scenarios and navigate to relevant points easily, because I need efficient ways to review and analyze specific events captured by my security system. [6]

