

Test Plan and Report, Synthura, Team Name, June 4th 2024

System Test Scenarios

A. User story 1: As a user I want to create an account so that I can access the environments, clusters, and cameras associated with my account.

Scenario 1: Create Account (Pass/Fail)

1. open Synthura website; select 'sign up'; type
username = <Linda Werner>
password = <LLWPass9>
press Submit Button
2. User should proceed to the Main page and see their username at the top of the page and see the environments, clusters, and cameras associated with their account.

B. User story 2: As a user I want to create and name environments, clusters, and cameras.

Scenario 1: Create a new environment/cluster/camera with the option to give it a custom name (Pass/Fail)

1. open Synthura website; select 'sign up' or 'log in'; and follow the appropriate steps
2. User presses 'New Environment' and enters a name
3. User pressed the '+' button under the environment to create a cluster. User enters a cluster name.
4. While that cluster is selected, user enters a camera connection following the format http://<ip>:<port>/video. User presses the '+' to add the connection then enters the camera name.

C. User story 3: As a new user I want to understand how to use this platform with a tutorial.

Scenario 1: A tutorial takes me through the website so that I know how to create environments, clusters, and cameras. I also understand the relationship between these so that I am better informed on how to use the app. (Pass/fail)

1. Open Synthura website; select 'sign up' or 'log in'; and follow the appropriate steps

2. Go through the tutorial by pressing 'Begin Tutorial' and then 'Continue' on the pop ups.
3. The user creates and names an environment, cluster, and camera by following the tutorial.
4. The user also learned how to save a recording. Finally, the user understands the relationship between the environment, cluster, and camera so that I am better informed on how to use the app.

D. As a user, I want the ability to connect multiple cameras to a centralized security cluster with features to add or delete cameras.

Scenerio 1: User is able to add and delete cameras. (Pass/Fail)

1. After logging in, creating an environment and a cluster, the user is able to add a camera.
2. The user can delete this camera or add more cameras to the cluster.

E. As a user, I want advanced insight into the footage for preemptive security measures and situational awareness.

Scenario 1: User sees detailed analytics for scene understanding from cameras, specifically tracking potentially dangerous scenarios. (Pass/Fail)

1. The user should be able to log in. Then they will create an environment, a cluster, and add a camera.
2. They will see live object recognition in their feed. This will change in live time as the feed changes.
3. They will also see a list of objects that are recognized in their frame under their feed. This list will be constantly changing based on what is in the frame.

The Test Plan and Report includes the following elements

- **Heading:** Document name ("Test Plan and Report"), product name, team name, date.
- **System Test scenarios:** Provide a list of system test scenarios. Ideally, the scenarios should relate to specific user stories and associated acceptance criteria.

A scenario is a list of system level interactions (including precise input and output) a user would follow to determine that each user story has been completed; i.e., all the acceptance criteria for a user story are met.

Example:

A. User story 1: As a user I want to create an account so that I can use the toilet location system.

B. User story 2: As a registered user I want to view a map showing locations of all toilets in 5 mile radius of current location so that I can visually choose more information about toilets of interest.

Scenario 1: Create Account (Pass/Fail)

1. start Toilet app; select 'new user'; type
name = <Linda Werner>
password = <LLWPass9>
password confirmation = <LLWPass9>
press Enter Key
2. user should see verification message that account is now active

Scenario 2: Show toilets in 5 mile radius (Pass/Fail)

1. select 'view toilets in 5 mile radius';
2. User should see map of 5 miles radius of current location with all toilets within the toilet database marked.

Note for each scenario whether the test passed or failed for the system release version.

- **Unit tests:** If you developed automated tests, reference the relevant directories in your release branch. Note if any of the tests failed for the released system version. Be prepared to run the tests during the project review.