

Lost Test Plan

Setup:

Before testing our web interface, we must have a database build and ready.

- Initialize the database, createdb <dbname>, and then run the preflight script to set up the tables necessary for the interface interactions.

We can now boot up the interface.

- Inside the wsgi folder of your repository there is a app.py program. We will initialize it with the <apachectl start> command. The web application should now be operational.
- Point your browser to <http://127.0.0.1:8080> and you should be directed to the Lost login screen.

Step 1:

- The login page will have a field to enter a username and password and then login, and a button to register a new user. To test all the interactions in the database, we need to create two types of users. From the login page, select the register new user button. This will direct you to the user registration page.
- The user registration page has a field to enter a new username and password, a dropdown with a few position types, a register button, and a link to go back to the login page.
- Make a Logistics officer. Once you select register, you will be redirected to a page that explains if the user account was successfully made, or if the user ID is taken and you must select a different username.
- Go back to registration.
- Repeat for a Facilities officer.
- Go back to the login page. Test you can login with a bad username or username password combination. You should be redirected to a bad username/password page instead of logging in.

Step 2:

- Login as the Facilities Officer you made.
- You will be redirected to a dashboard with multiple links to different facilities operations.
- Select the Add Facilities link.
- In add facilities there will be a form element that lists the facilities already made. Below it is a form to add a new facility. Add one, include at least name and fcode. The form will update with the new facility.
- Test that you cannot add a facility that has a non-unique username or fcode-this should flag an error and prompt an invalid entry redirect.
- For testing purpose make at least 2 unique facilities
- Select the Dashboard link to go back.

Step 3

- Select Add Assets

- The assets page has 2 form elements, the top one shows the assets in Lost, and their location, arrival and departure. Add an asset, make sure to fill all form elements. The asset must have a unique tag, otherwise you will be redirected to an error page. If successful, the form element will update including the new asset.
- Add at least 3 assets.
- Select the Dashboard link to go back.

Step 4

- Select Dispose Assets
- The disposal page has 2 form elements, the top one shows the assets in Lost, and their location, arrival and departure. Dispose of an asset. If you enter an invalid tag, or if the asset is already disposed, you will be told the asset you selected does not exist. A successful disposal redirects you to the Dashboard. You can confirm it's disposal by checking out the Disposal page again, and the asset you disposed of will now have a depart date.
- Select the Dashboard link to go back.

Step 5

- Select Asset Report
- The Asset Report page has 2 form elements, the top one to select a location and inquiry date, and the bottom the display results.
- Entering no facility will show all assets in all facilities before the given date.
- Entering a facility will narrow the result to only a specific facility
- Select the Dashboard link to go back.

Step 6

- Initiate a Transfer request from the New Transfer request page
- You must be the Logistics Officer to do this step
- Select an asset to transfer, the assets will be conveniently listed in the top form element
- Enter a request date, and a source and destination facility.
- Enter at least 2 different transfer requests
- Select the Dashboard link to go back.
- Logout

Step 7

- Login as the Facilities Officer you made
- Select the Approve Transfer Request link
- You must be a Facilities Officer to do this step
- Request made by the Logistics officers will appear here. You can approve or deny each request.
- Enter an approval date, and approve both requests.
- Select the Dashboard link to go back.
- Logout

Step 8

- Log back in as the Logistics Officer
- Select the Update Transit Link

- From here, you can enter load and unload times for each approved transfer.
- Go ahead and enter a load time for the first asset
- You will be redirected to the dashboard. Click on the Update Transit Link, and select a time and unload the asset. The transfer is now complete and the asset will no longer be able to be updated.

Step 9

- For the optional assignment, we could implement a transfer report. I ran out of time to fully implement this, and while the link is present, the form for showing the report is not functional.