CIS 322 Test Plan - Edward Szczepanski

Installation Instructions
1. Clone Repository and cd into it
   - git clone https://github.com/edwardszczepanski/OSNAP.git && cd OSNAP
   - Response: Project files should download
2. Setup Database
   - initdb data
   - pg_ctl -D data -l logfile start
   - createdb lost
   - Response: Database should be successfully initialized
3. Run Preflight
   - ./preflight lost
   - Response: No errors and 'CREATE TABLE' and 'INSERT 0 1' should be spit out to the terminal multiple times
4. Start Apache
   - apachectl start
   - Response: Nothing; no errors.
5. View the application
   - Go to 'http://localhost:8080' in Chrome
   - Response: User brought to Login page

Creating the initial users
1. Go to the 'clients' directory
   - cd OSNAP/clients
2. Run the Activate User Script
   - python3 activate_user.py http://localhost:8080/ <username> <password> <logofc | facofc>
   - Response: The program should respond with an 'OK' message
3. Ensure the user has been added
   - Testing: Type 'psql lost' then 'SELECT * FROM users;' to ensure that the new user is there. You can also test by attempting to login using the credentials inputted.

Login to the system
1. Ensure that you have a valid account added and that you are logged out
2. Go to Login page
   - http://localhost:8080/login
   - Response: Page loaded correctly
3. Enter Username and Password
4. Hit the 'Login' Submit Button
   - Response: If the input is wrong the app should flash which credentials are wrong. If they are correct the application should redirect you to the dashboard and greet you with your name. If this user is a Facilities Officer the user should be shown Transfer Requests Awaiting Approval. Otherwise, the user should see all approved Transfer Requests and then should be able to update the transit times.

Add two facilities
1. Go to Add Facility page
   - http://localhost:8080/add_facility
   - Response: Page loaded correctly
2. Input Common Name, fcode, and location
3. Hit the 'Add Facility' Submit Button
   - Response: If the input is wrong, such a non-unique fcode or common name, then the application will flash an error. If not the application will redirect you to the dashboard.
   - Testing: Go back to the Add Facility page and check to see if the facility is listed.
4. Repeat steps 1-3
   - Testing: Type 'psql lost' then 'SELECT * FROM facilities;'. Confirm that your both your new facilities are there.

Add two assets
1. Go to Add Asset page
   - http://localhost:8080/add_asset
   - Response: Page loaded correctly
2. Input Facility, Asset Tag, Description, and Asset Arrival Date
3. Hit the 'Add Asset' Submit Button
   - Response: If the input is wrong then the application will flash an error. If not the application will redirect you to the dashboard.
   - Testing: Go back to the Add Asset page and check to see if the facility is listed.
4. Repeat steps 1-3
   - Testing: Type 'psql lost' then 'SELECT * FROM assets;'. Confirm that your both your new assets are there.

Complete the asset transit process
1. Login as a Facility Officer.
   - Response: Redirected to Dashboard page
2. Go the Transfer Request page
   - http://localhost:8080/transfer_req
   - Response: Page loaded correctly
3. Ensure that you have at least one asset and facility added
4. Select from the dropdowns the desired request
5. Hit the 'Request' Submit Button
   - Response: If the input is not valid the app will flash an error. If not you will be redirected to the dashboard.
6. Login in as a Logistics Officer
   - Response: Redirected to Dashboard page. Transfer request should be displayed on Dashboard
7. Select Request and hit the 'Approve' or 'Reject' submit buttons
   - Response: If no request was chosen the app will flash an error. If valid the page should refresh and the transfer request should no longer be visible.
8. Login back in as the original Facility Officer

- Response: User should be redirected to dashboard where the approved request should be populated in a table
9. Select Request, input the two dates, and hit the 'Update Transit Button'
     - Response: If one or more of the inputs are not completed the app will flash an error. If everything is valid the application will flash a success confirmation to the user.

Dispose of an asset
1. Login as a Logistics Officer.
     - Response: Redirected to Dashboard page
2. Go the Asset Disposal page
     - http://localhost:8080/dispose_asset
     - Response: Page loaded correctly
3. Enter an existing asset tag and select a date
     - Response: If the asset tag does not exist in the database the app will flash an error. If there is no disposal date the app will simply use current UTC time. If successful, the application will refresh the page and notify the user that the asset was successfully disposed.
     - Testing: Go the asset report page and confirm that the asset no longer exists.

Run each of the reports
1. Project Installation
     - Steps 1-5: Success
2. Creating the initial users
     - Steps 1-3: Success
3. Login to the system
     - Steps 1-4: Success
4. Add two facilities
     - Steps 1-4: Success
5. Add two assets
     - Steps 1-4: Success
6. Complete the asset transit process
     - Steps 1-9: Success
7. Dispose of an asset
     - Steps 1-3: Success