Test Mapping Functionality:

1. Open a new App instance
2. Create a new account
3. Login with the new account
    a. Should see the app homepage
    b. Check the debug console to ensure the correct user was logged in
4. Hit 'Map Position'
    - ☐ Ensure an appropriate error message is displayed: 'You have no data to display.' (Acceptance Criteria #1)
5. Hit 'Import Data'
    a. Select any of the 3 demo files.
    b. Should see a success message in the GUI
    c. Hit 'Continue'
    d. The debug console should show the data that was imported as strings
        i. '_' are file separators
        ii. ';' are column separators
        iii. ',' are row separators
    e. Ensure the imported data is as expected
6. Go back to the homepage
7. Hit 'Map Position'
    - ☐ Ensure a new page is rendered for mapping (Acceptance Criteria #2)
    a. Hit 'Add Accelerometer Data'
    b. Hit 'Ok' to 'Please fill out the right panel with your Accelerometer data.'
    - ☐ Ensure you see a pop-up on the right side of the mapping page in the GUI for data type, time, x-acceleration, and y-acceleration. (Acceptance Criteria #3)
    c. Click the box under 'Choose the accelerometer data'
    d. Select the data type that contains your accelerometer data
    e. Click the box under 'Select Data for the time', then for x-acceleration, and y-acceleration.
    - ☐ Ensure that there are options to select the correct data column for each (Acceptance Criteria #4)
    f. Make appropriate selections
    g. Hit 'Load Map'
    - ☐ Ensure that a 2d image in the map window is rendered showing the path of the robot over the course of the match (Acceptance Criteria #5)
8. Return to the homepage
9. Hit 'Map Position' (using the SampleDemo data)
    a. Hit 'Add Accelerometer Data'
    b. Click the white box under 'Choose the accelerometer data'
    c. Select 'Motor'

    d. Select ‘Time (s)’, then ‘Spin Angle (rad)’, then ‘Angular Velocity (rad/s)’ for time, x-acceleration, and y-acceleration respectively
    e. Hit ‘Load Map’
    - [ ] Ensure an appropriate error message is displayed: ‘The time, x-axis acceleration, and y-axis acceleration must have the same number of elements as each other for mapping.’ (Acceptance Criteria #6)
10. Return to the homepage
11. Hit ‘Map Position’ (using any data)
    a. Hit ‘Add Accelerometer Data’
    b. Click the white box under ‘Choose the accelerometer data’
    c. Selecty any
    d. Select all 3 prompted data columns, with two or more as the same data column
    e. Hit ‘Load Map’
    - [ ] Ensure an appropriate error message is displayed: ‘You cannot select 2 or more of time, xAcceleration, or yAcceleration to be the same as each other.’ (Acceptance Criteria #7)