No.	User Action	Precondition	Expected Results	Steps
1	Caching station data	Delete cache folder. Delete favorites.json. Delete appstate.json. Connected to internet.	System should cache downloaded station data for offline viewing. Station data should still be viewable without internet connection.	Open app Click "Add Station" Click dropdown for "Select State" and select "Victoria" Click dropdown for "Select Station" and select "Ballarat" Click "Add to My Favorites" Wait until the main screen displays the temperature for "Ballarat" Close the app Disconnect from the internet Open the app. The app should be displaying "Ballarat" weather station data
2	Loading station URLs	Delete cache folder. Delete favorites.json. Delete appstate.json.	User opens app and expects all available states and stations listed.	Open app Click "Add station". The "Select State" drop down should display "Antarctica". The "Select Station" drop down should display "Casey"
3	Removing favorites	Delete cache folder. Delete favorites.json. Delete appstate.json.	Ballarat favorite should be removed.	Open app Click "Add Station" Click dropdown for "Select State" and select "Victoria" Click dropdown for "Select Station" and select "Ballarat" Click "Add to My Favorites" Click "Remove from Favorites" on the top panel
4	Updating Stations by Location	Start app.	All stations available in selected state are shown and updated in "Select station" drop down menu.	Open app. Click "Add station". Click "Select state" drop down menu. Select "Victoria" Click "Select station" drop down menu. All available stations in Victoria should be displayed. Repeat steps 4 onward, replacing Victoria with States = {NSW, TAS, WA, SA, NT, QLD, ANT}
5	Asserting no duplicate favourites	Delete cache folder. Delete favorites.json. Delete appstate.json.	Only one instance of a station is to be in "Favourite Stations" after adding a station to favourites twice.	Open app. Click "Add station". Click "Select state" drop down menu. Select "Victoria" Click "Select station" drop down menu. Select "Albury". Click "Add to My Favorites" Repeat from step 2 to 6. An error message indicating no duplcates should be displayed.
6	Viewing temperature graph	Delete appstate.json. "Antarctica - Casey" added to favorites. Connected to internet.	A plot of max temp over time should be displayed.	Open app Select "Casey" from the favorites list Click "View Chart" on the top panel Under the "Select Chart" dropdown, select "Daily Max" A plot of the last 90 days max temp data should be plotted

7	App functions after unintended external file modification	Delete appstate.json. "Antarctica - Casey" favorite added.	The app should run as normal.	Open app Close app Open appstate.json in text editor Change all "0" characters to "9" and save the file Open app The app should function as normal
8	favorites.json modification	Delete appstate.json. "Antarctica - Casey" favorite added. "Victoria - Albury" favorite added.	The app should automatically delete invalid favorites.	Open app Close app Open "favorites.json" in text editor Replace Victoria with Victorian Save the file Open app "Victoria - Albury" favorite should no longer be visible under favorite stations
9	Window position state saved	Delete appstate.json.	The window position of the previous session is saved and restored upon next use.	Open app Move app window to lower right of screen Close app Open app The window position should be restored to the same position as the previous session
10	Window state saved	Delete appstate.json. "Antarctica - Casey" favorite added. Connected to internet.	The opened chart state is saved and restored upon next use.	Open app Click Casey under favorites stations. The top panel should now display Casey. Click "View Chart" Close app Open app The chart of Casey should be displayed.