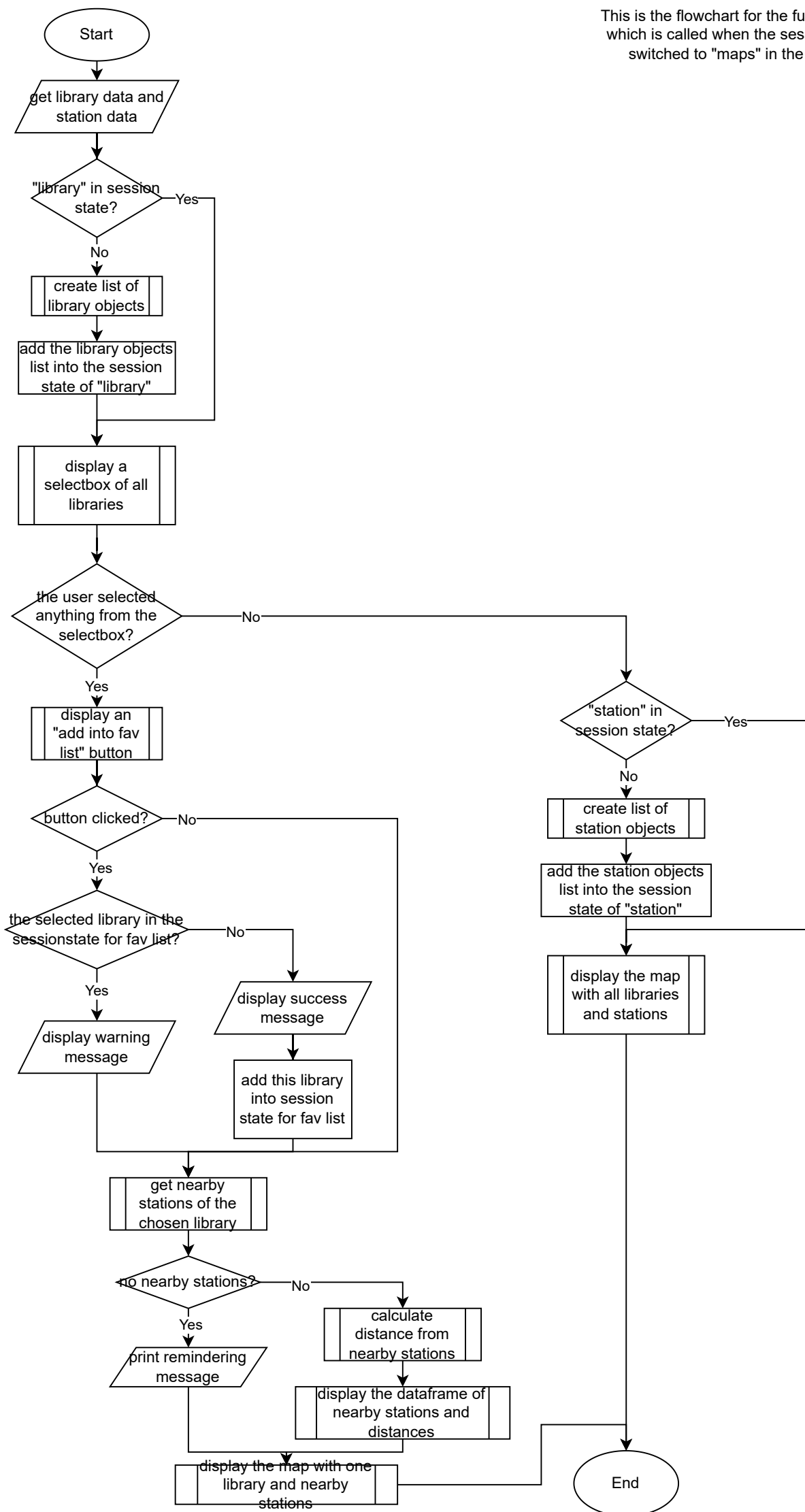
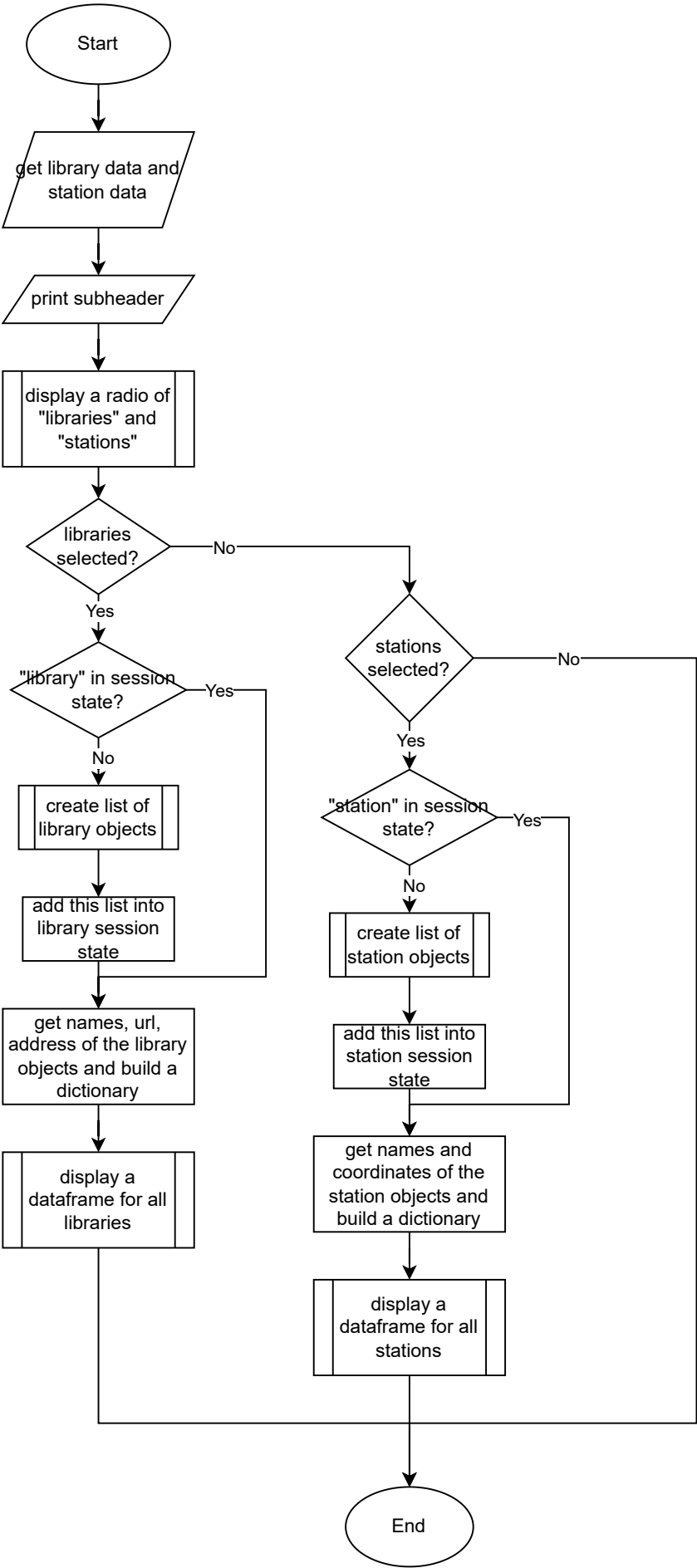
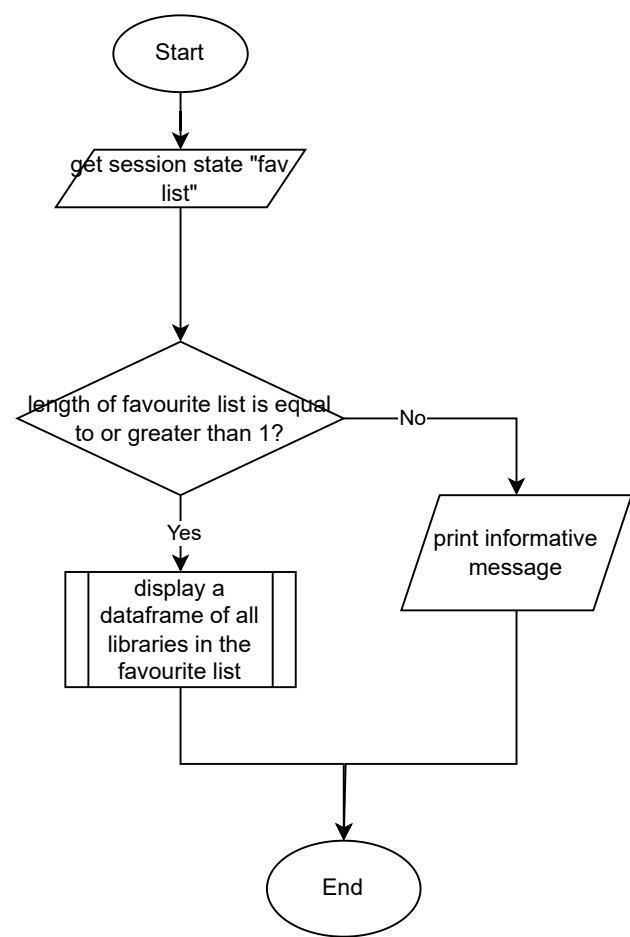


This is the flowchart for the function `map_render()`, which is called when the sessionstate for page is switched to "maps" in the driver file `app.py`



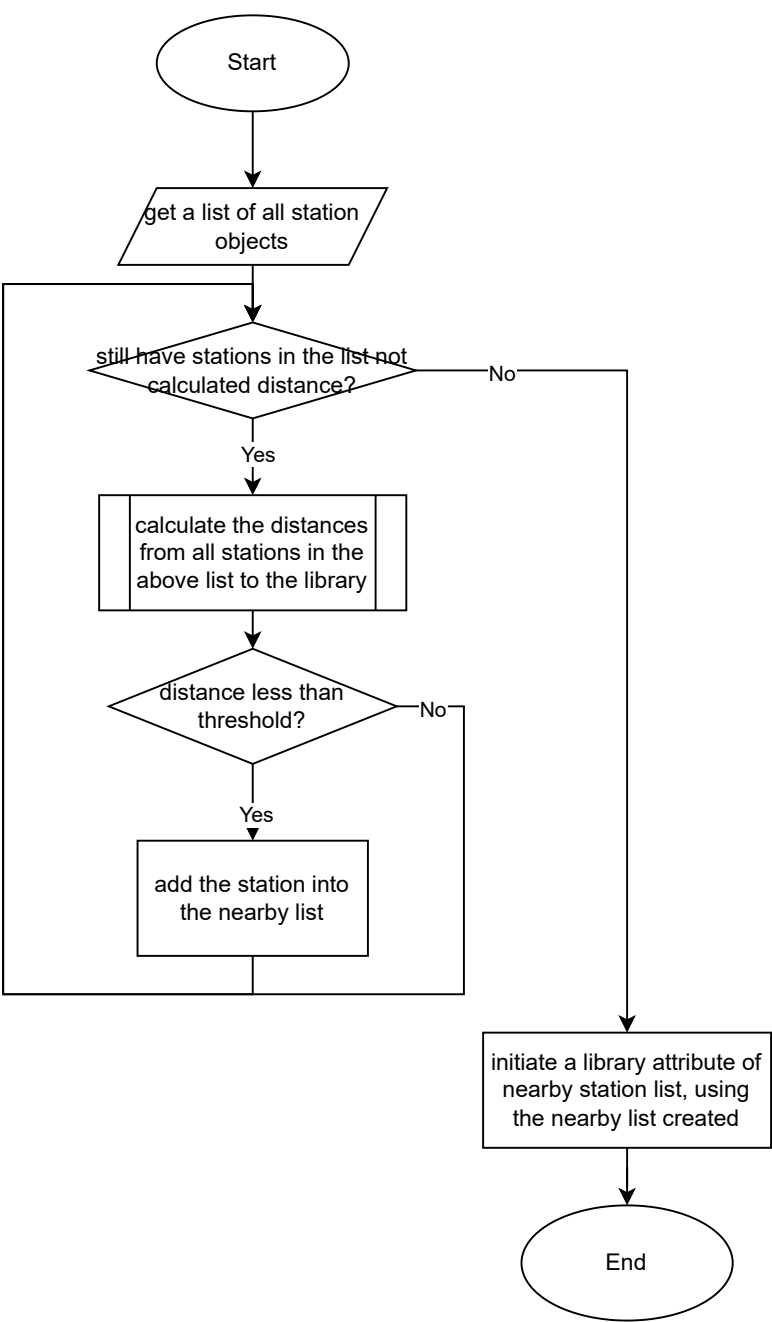


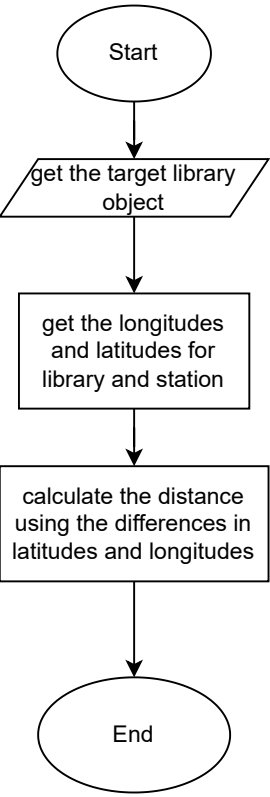
This is the flowchart for the function `display_table_render()`, which is called when the sessionstate for page is switched to "display" in the driver file `app.py`



This is the flowchart for the function `fav_list_render()`, which is called when the sessionstate for page is switched to "favourite list" in the driver file `app.py`

This is the flowchart for the Library method find_nearby_stations(), which gets all nearby stations of the library objects.





This is the flowchart for the Station method `calculate_distance_from_library()`, which calculates the distance from one station object to another library object

Navigation

Data Display

Maps

Favourite List

Instructions:

1. Switch between different pages in the sidebar.
2. You can see all library and station information in the first page.
3. You can see different maps in the second page.
4. Adding libraries in the map page, you can build your own fav list and see that in the third page!

This is the default page of view.

Users can switch between different pages of view using the buttons under Navigation.

The instructions part tells users how to use this application.

Navigation

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By default, this page is empty. After choosing from the radio, a table of all libraries or stations is displayed. If “stations” is chosen, a table of names, longitudes, and latitudes is displayed.

Tables of Libraries & Stations

Select the data you want to see!

- ☒ Libraries
- ☐ Stations

Library	Address	URL
Champlain Heights	7110 Kerr St	http://www.vpl.ca/branches/details/champlain_heights_branch
Firehall	1455 W 10th Av	http://www.vpl.ca/branches/details/firehall_branch
Kitsilano	2425 Macdonald St	http://www.vpl.ca/branches/details/kitsilano_branch
Mount Pleasant	1 Kingsway	http://www.vpl.ca/branches/details/mount_pleasant_branch
South Hill	6076 Fraser St	http://www.vpl.ca/branches/details/south_hill_branch
West Point Grey	4480 W 10th Av	http://www.vpl.ca/branches/details/west_point_grey_branch
Renfrew	2969 E 22nd Av	http://www.vpl.ca/branches/details/renfrew_branch
Britannia	1661 Napier St	http://www.vpl.ca/branches/details/britannia_branch
Carnegie	401 Main St	http://www.vpl.ca/branches/details/carnegie_branch
Central Branch	350 W Georgia St	http://www.vpl.ca/branches/details/central_library



Navigation

Data Display

Maps

Favourite List

This is by default what Maps looks like, with a map of all libraries. Users are able to select a library from the select box, then a map with only one library is displayed.

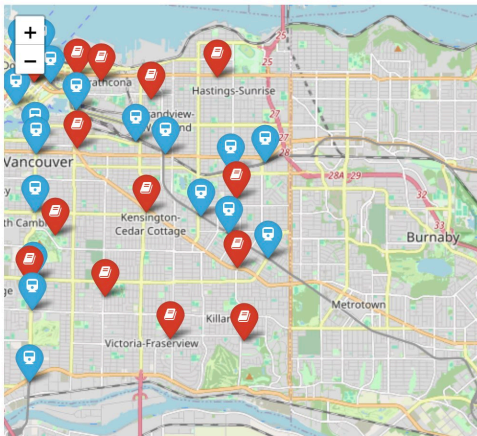
Instructions:

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Library-Station Map

Where do you want to go?

Select a library





Navigation

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After choosing a library, a table of its nearby stations (if any) is displayed. The original map is replaced with a map with only one library.

Library-Station Map

Where do you want to go?

Renfrew

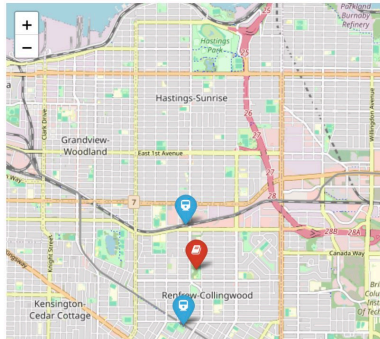
Add into want-to-go list

Nearby stations are:

Station	Distance(km)
Renfrew	0.77
29th Avenue	0.97

Clicking this button will add this library into the fav list.

If this library doesn't have nearby stations, message will be displayed to inform users at this area.



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Favourite List

Instructions:

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My Want-to-go List 🚶

Favourite libraries

Kitsilano

All the libraries added into fav list in Maps page go here.