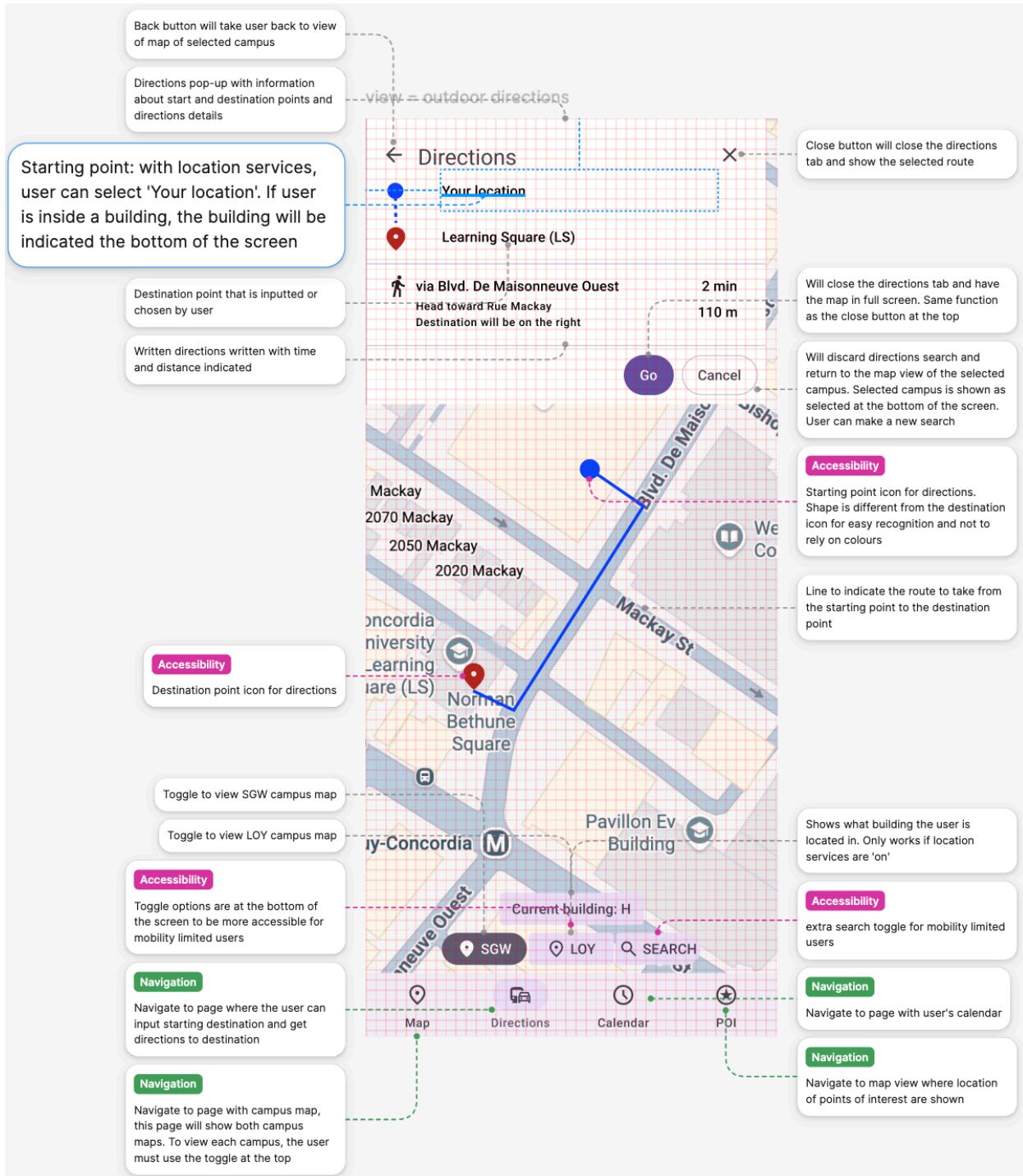
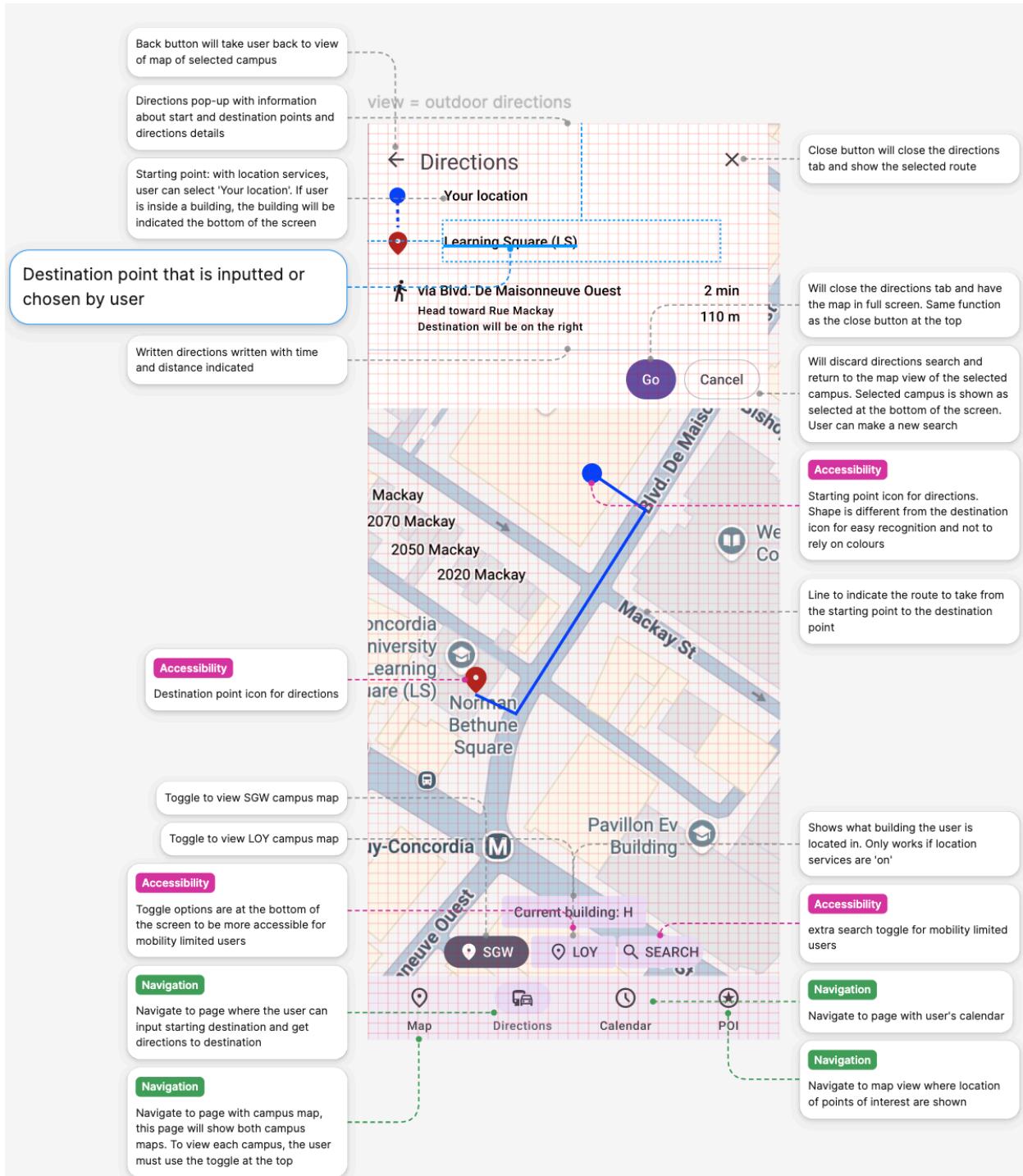


## US-2.4 — Display route directions on the map using Google Directions API

Personas: Emily Nguyen (new student), Liam Dubois (young staff), Sofia Lopez (graduate student), Alexia Martin (student with mobility disability), Jordan Lee (staff with colorblindness)

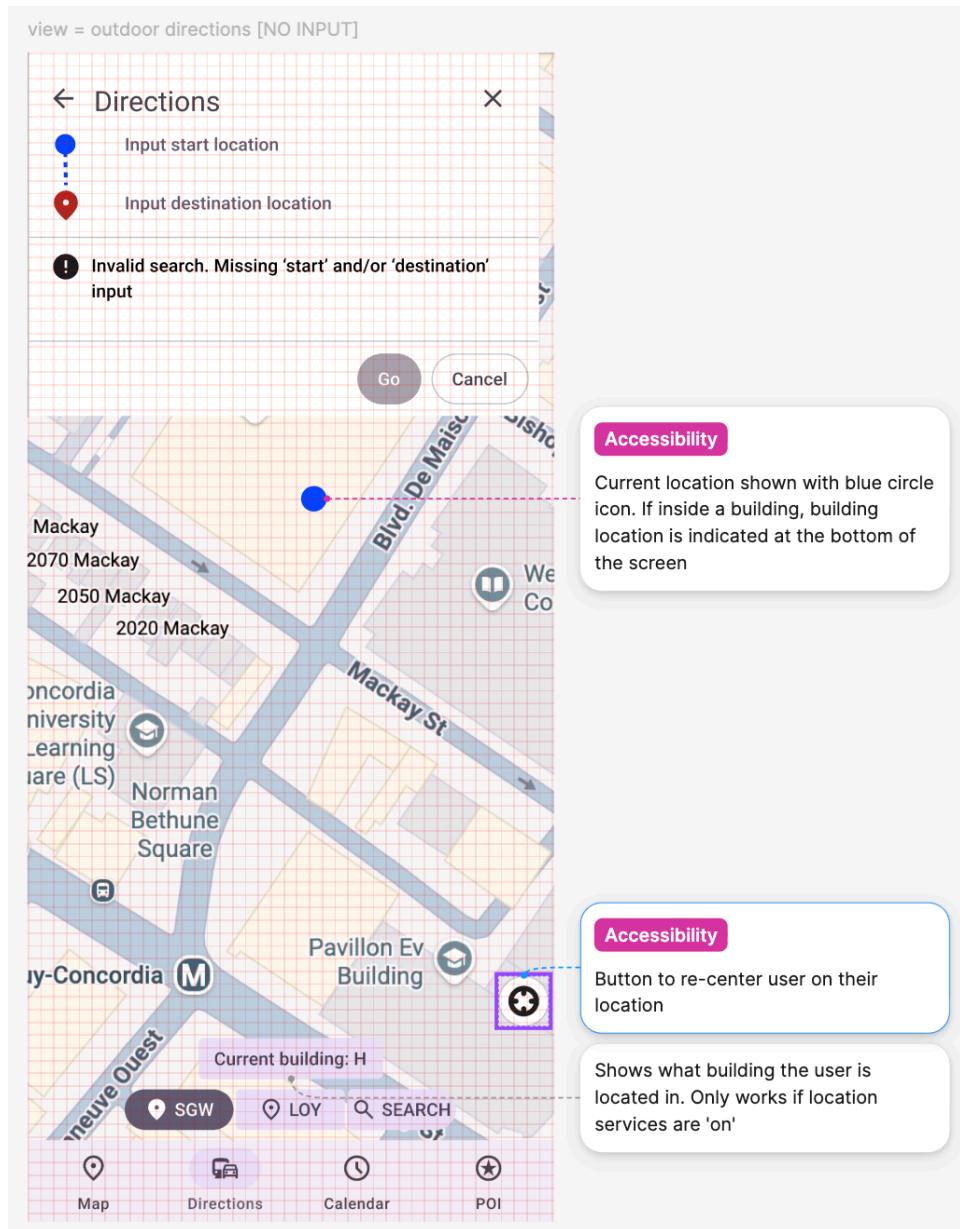
- Given both start and destination are set, when the user requests directions, then the app retrieves a route from Google Directions API and draws it on the map.





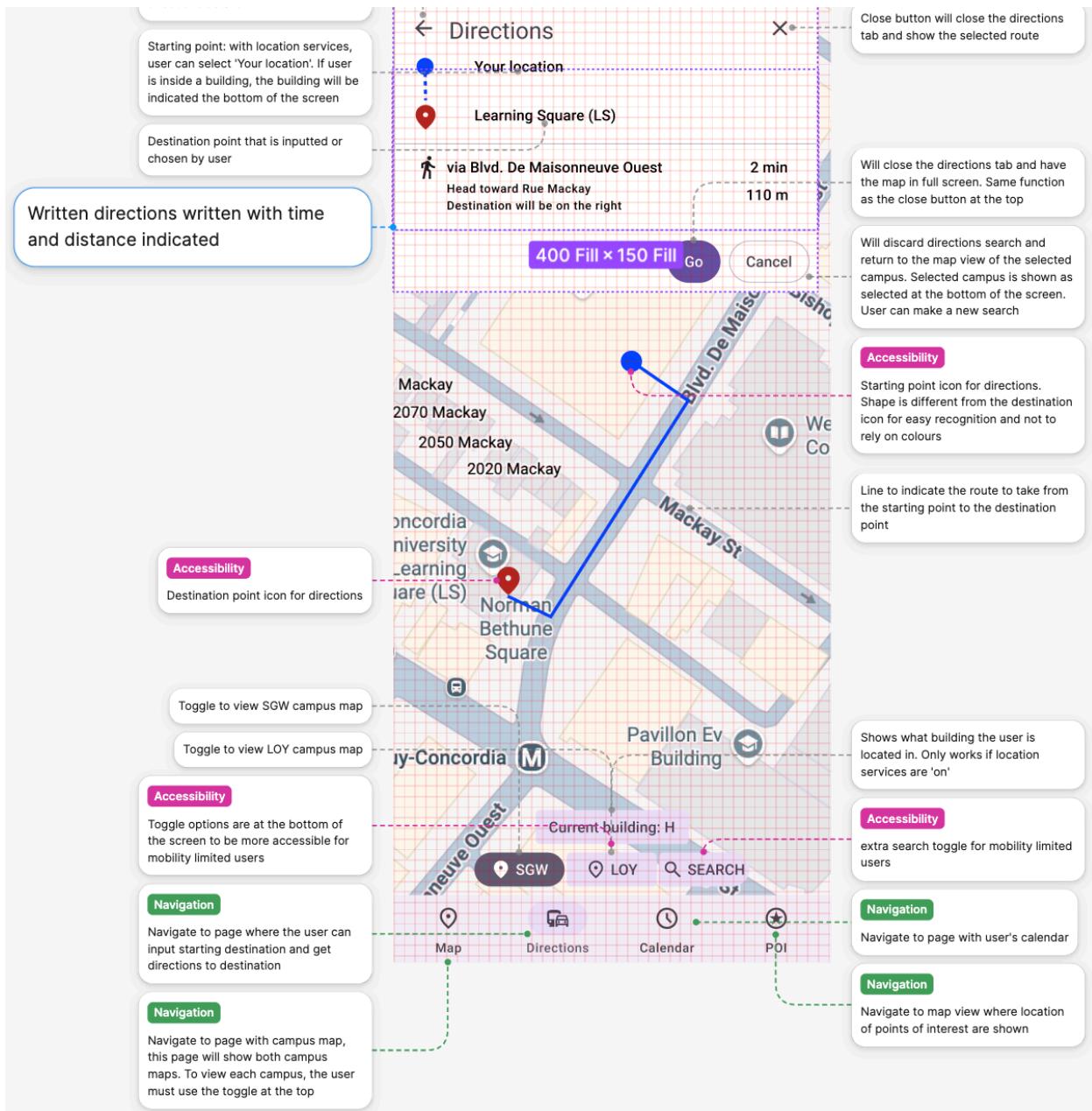
### UPDATE after PO meeting:

- Add re-center button to map → based on user location and if location services are turned on
- \* Re-center button to be added to every map screen → change will be reflected in upcoming sprint mockups

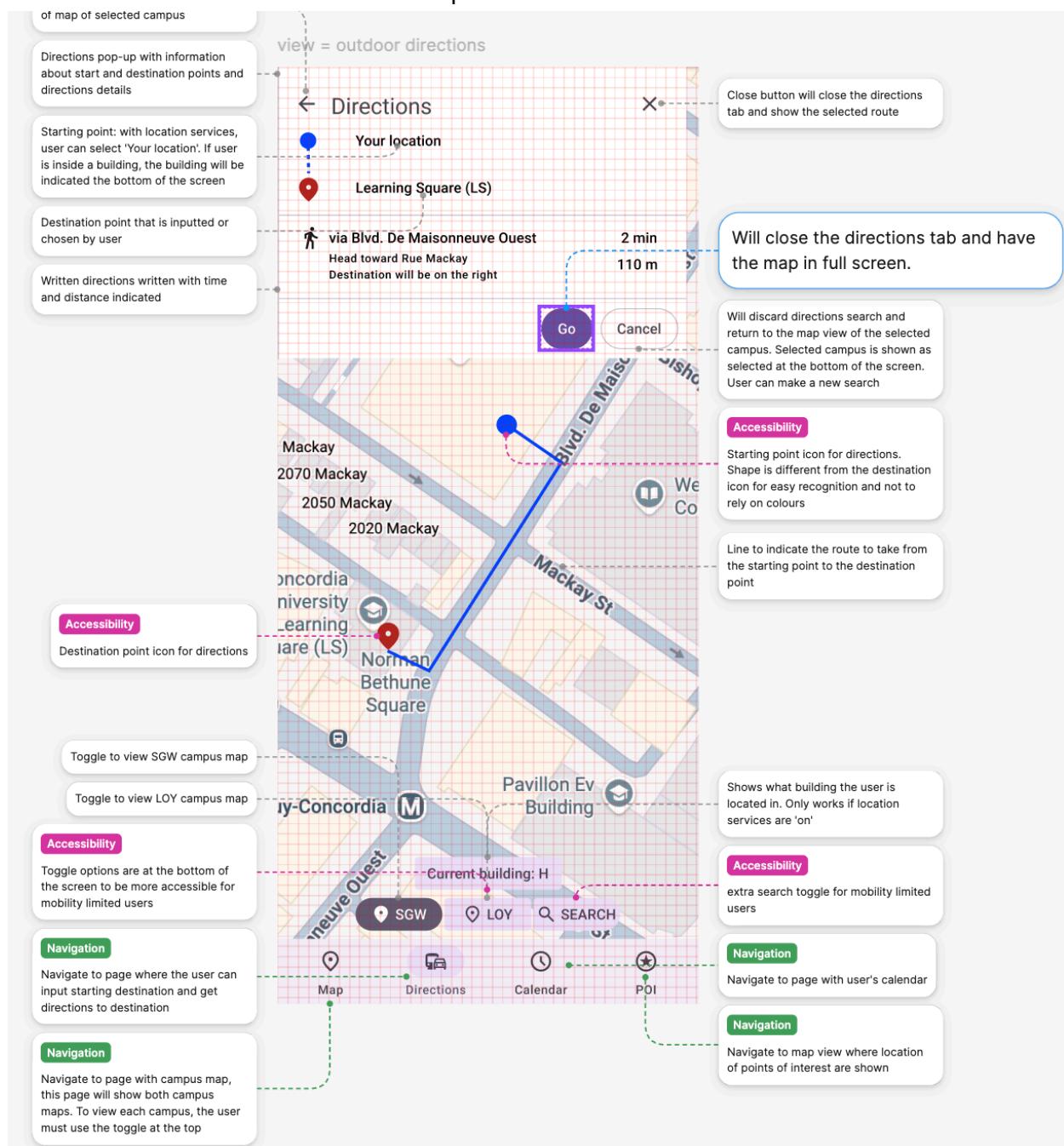


The app shows some route summary information (at minimum distance and estimated travel time).

- Accessibility: the route summary information is readable by screen reader.



The route remains visible while the user pans/zooms.



Open back up the directions details

**Accessibility**  
Destination point icon for directions

Toggle to view SGW campus map

Toggle to view LOY campus map

**Accessibility**  
Toggle options are at the bottom of the screen to be more accessible for mobility limited users

**Navigation**  
Navigate to page where the user can input starting destination and get directions to destination

**Navigation**  
Navigate to page with campus map, this page will show both campus maps. To view each campus, the user

**OT Fine Arts**

**Shop St**

**Mackay**  
2070 Mackay  
2050 Mackay  
2020 Mackay

**Concordia University Learning Rare (LS)**

**Norman Bethune Square**

**Bld. De Maisonneuve Ouest**

**Bishop St**

**Mackay St**

**Pavillon Ev Building**

**Y-Concordia**

**Current building: H**

**SGW**

**LOY**

**SEARCH**

**Map**

**Directions**

**Calendar**

**POI**

**Accessibility**  
Starting point icon for directions. Shape is different from the destination icon for easy recognition and not to rely on colours

Line to indicate the route to take from the starting point to the destination point

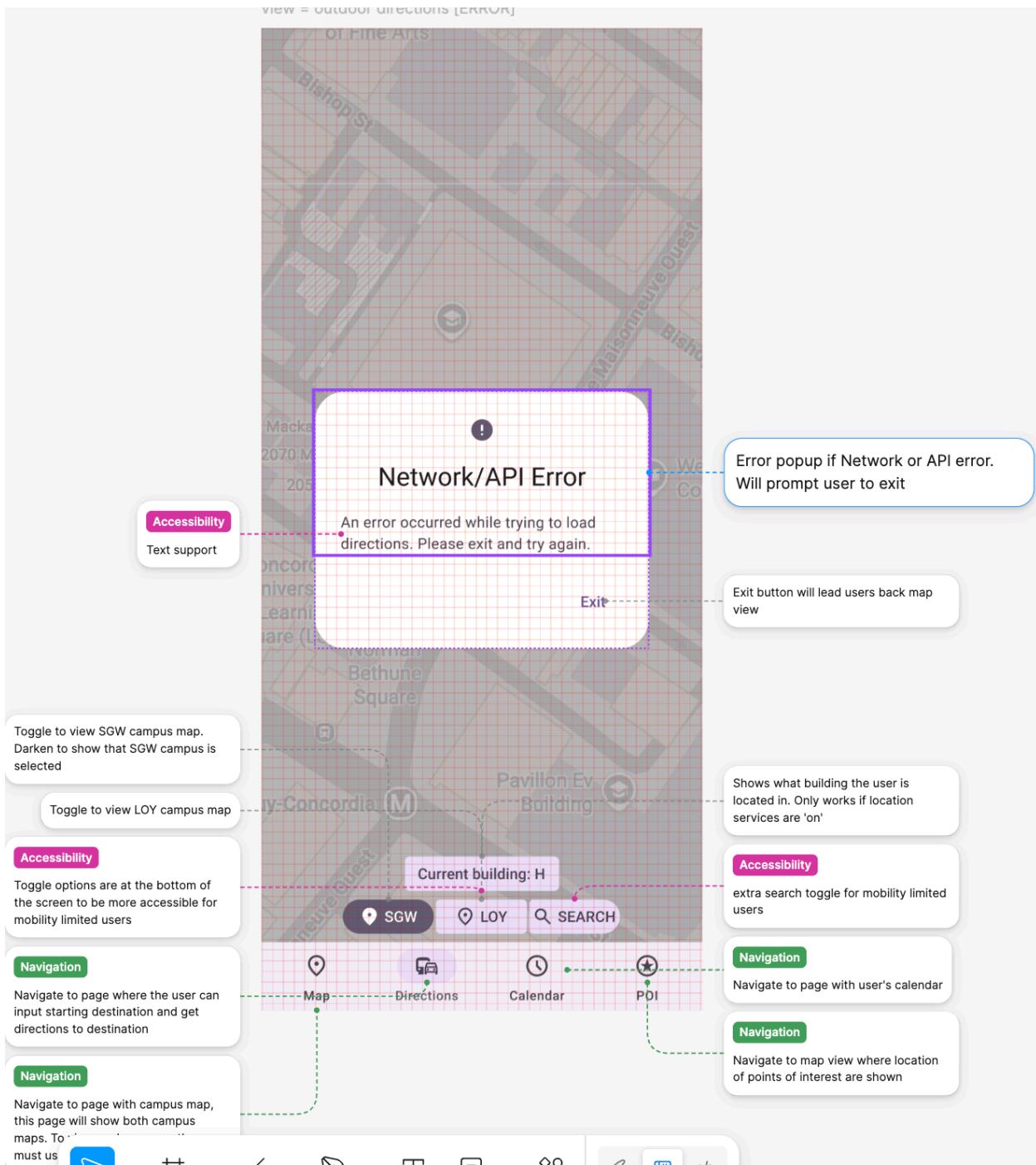
Shows what building the user is located in. Only works if location services are 'on'

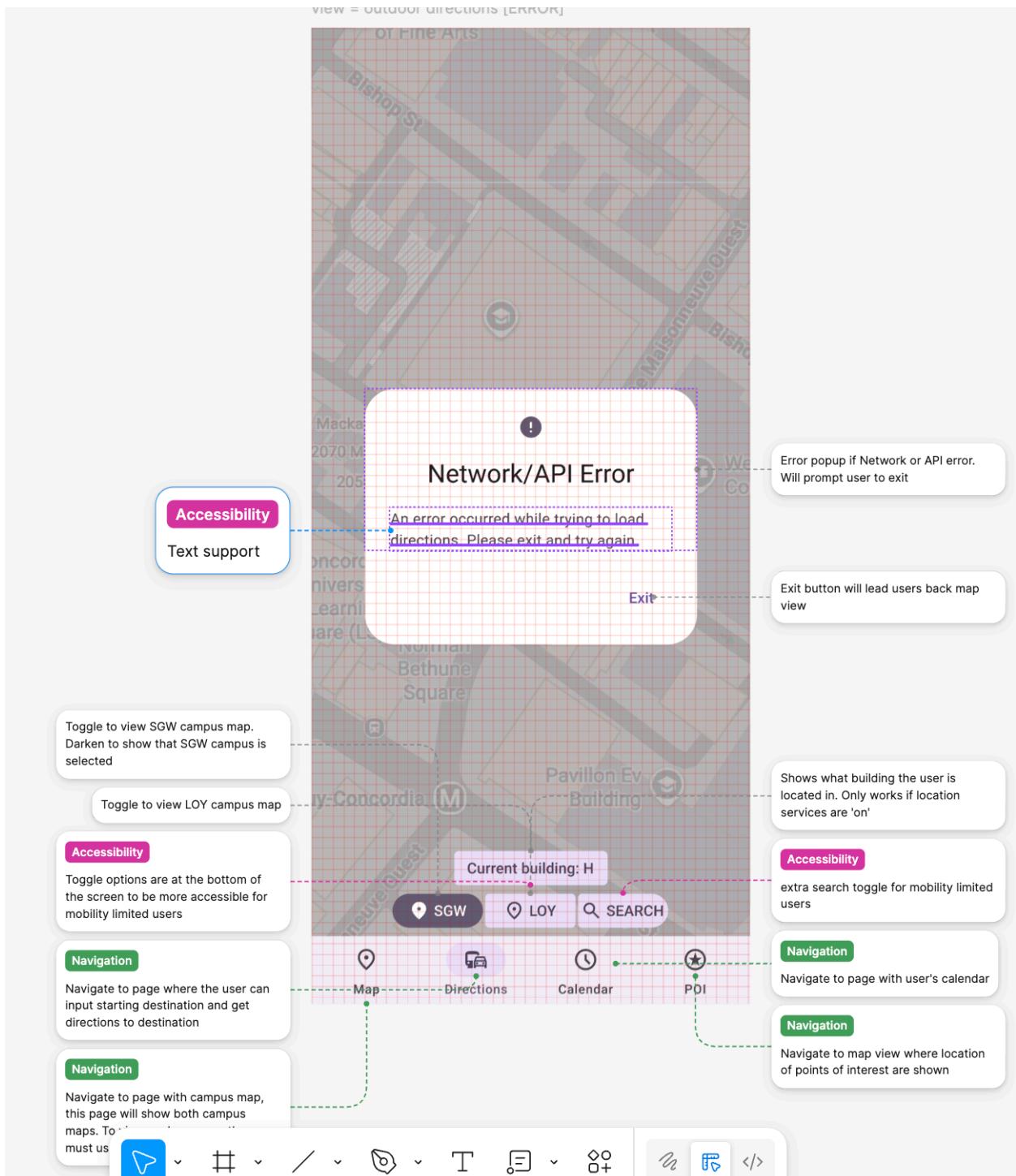
**Accessibility**  
extra search toggle for mobility limited users

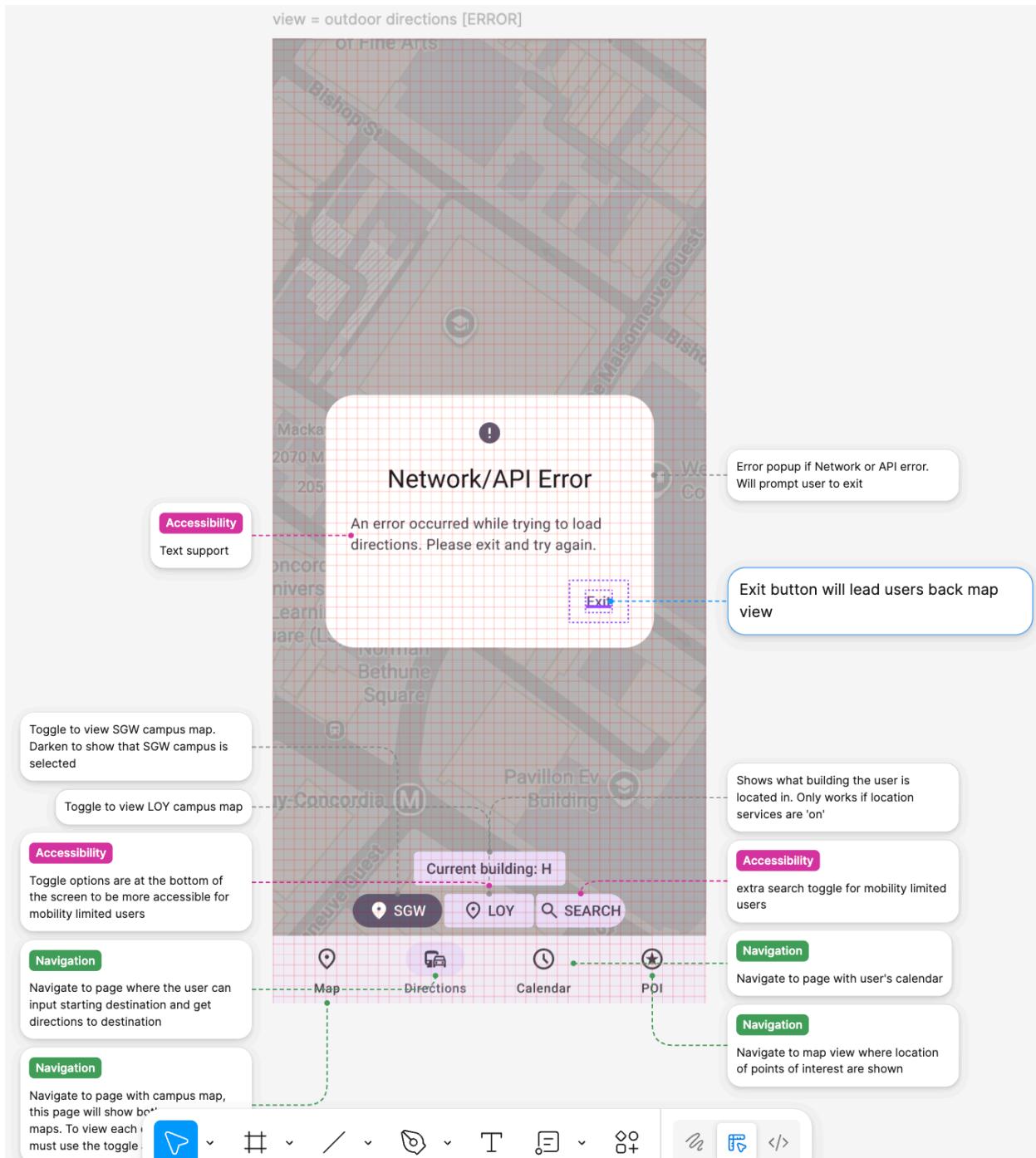
**Navigation**  
Navigate to page with user's calendar

**Navigation**  
Navigate to map view where location of points of interest are shown

If the route request fails (network/API error), the app shows a clear error message and does not crash.







The app shows some route summary information (at minimum distance and estimated travel time).

Accessibility: the route summary information is readable by screen reader.

Back button will take user back to view of map of selected campus

Directions pop-up with information about start and destination points and directions details

Starting point: with location services, user can select 'Your location'. If user is inside a building, the building will be indicated the bottom of the screen

Destination point that is inputted or chosen by user

Written directions written with time and distance indicated

view = outdoor directions

Close button will close the directions tab and show the selected route

Will close the directions tab and have the map in full screen.

Will discard directions search and return to the map view of the selected campus. Selected campus is shown as selected at the bottom of the screen. User can make a new search

Accessibility

Starting point icon for directions. Shape is different from the destination icon for easy recognition and not to rely on colours

Line to indicate the route to take from the starting point to the destination point

Accessibility

Destination point icon for directions

Toggle to view SGW campus map

Toggle to view LOY campus map

Accessibility

Toggle options are at the bottom of the screen to be more accessible for mobility limited users

Navigation

Navigate to page where the user can input starting destination and get directions to destination

Navigation

Navigate to page with calendar. This page will show both calendar and location services

Navigation

Navigate to page with user's calendar

Navigation

Navigate to page with user's calendar

view where location services are shown