

The background is white with various colorful abstract shapes and illustrations. In the top left, there's a dark blue square, an orange circle, and a small orange triangle. In the top right, there are orange and light orange wavy shapes. On the left side, there's a brown leafy branch. In the bottom left, there are orange and dark blue circles and a wavy line. At the bottom center, there's a rainbow with orange, yellow, and dark blue bands. In the bottom right, there's another brown leafy branch, a small cluster of orange diamonds, and a dark blue rectangle.

Human-Computer Interaction

COMP 4045

Improving Google
Maps for elderly



1. Background



Motivations



Prevalent

Mobile devices are common



Helpful

Useful and helpful to our daily lives



Practical

Different apps can do different things



Curious

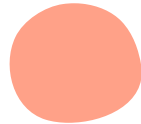
Elderly do not know how to use



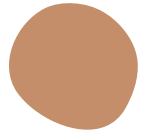
Goal



Understand their problems & difficulties



Provide them with a solution



Encourage them to use new technologies





2. App to be improved

Difficulties/Requirements

App to be improved

**Search and Save
function**



**Search and Navigation
function**

- Useful tool for navigation
- Most have experience on using it

Current Difficulties

Not understand the text or the icon

Message that ask for access to the location

Too many buttons in one page

Confusing for the elderly

Hard Navigation

Don't know how to navigate between different pages



3. Scenario & Tasks

Scenario 1 – Navigation to Hong Kong Baptist Hospital

01

**Search the
destination**

02

**Select the
result**

03

**See detail
about the place**

04

**See different
routes**

Choose the transportation method

05

**Click on the result to
see detail of the route**

06

**Click on “start” button to
start navigation**

Scenario 2 – Search and Save a place

01

**Search the
destination**

02

**Choose the
suitable result**

03

**See details
about the place**

04

**Click on the
"Save" button**

05

**Select which list the place
belongs to**

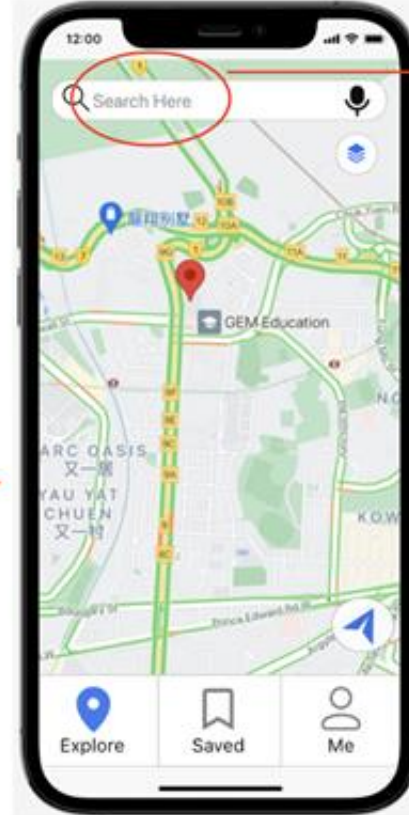


4. High-fidelity prototype

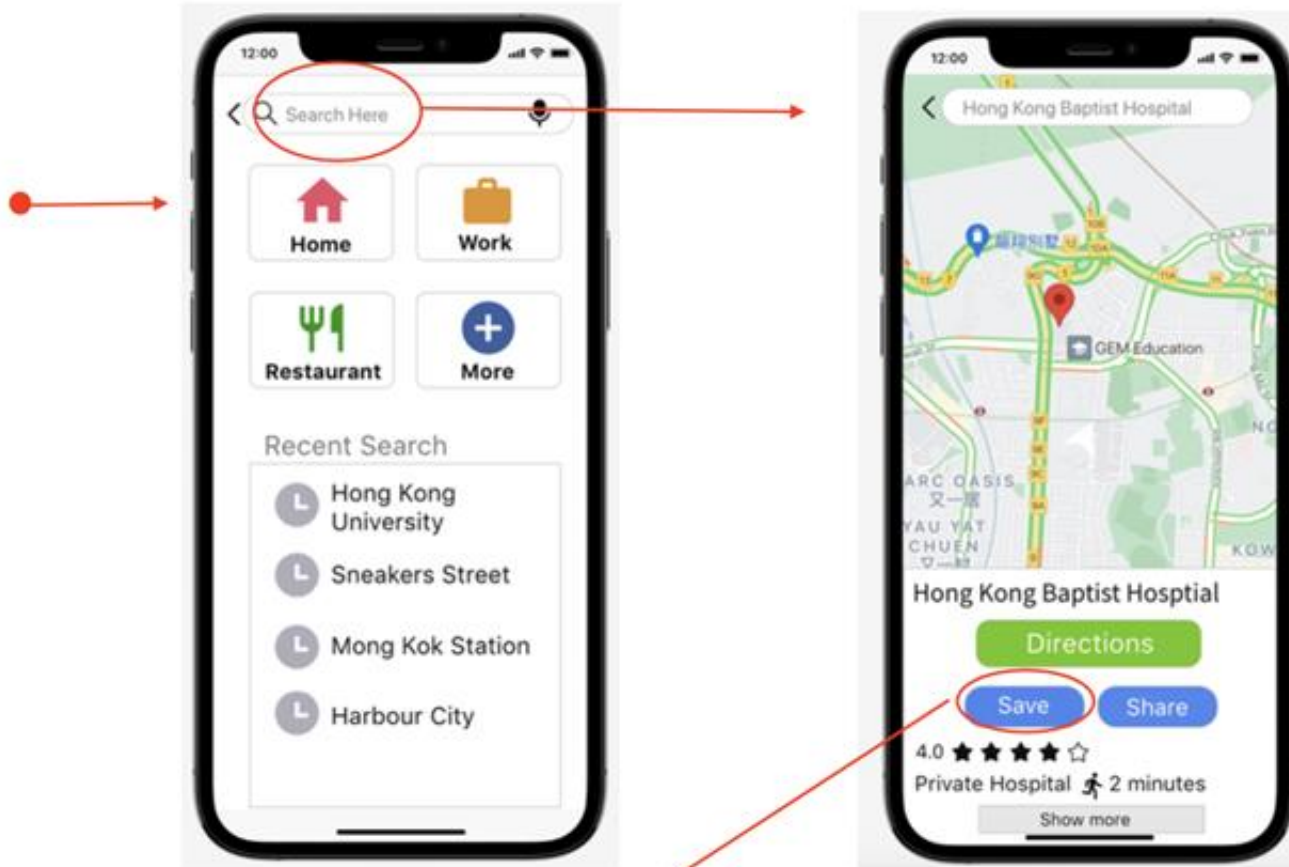
Search for save



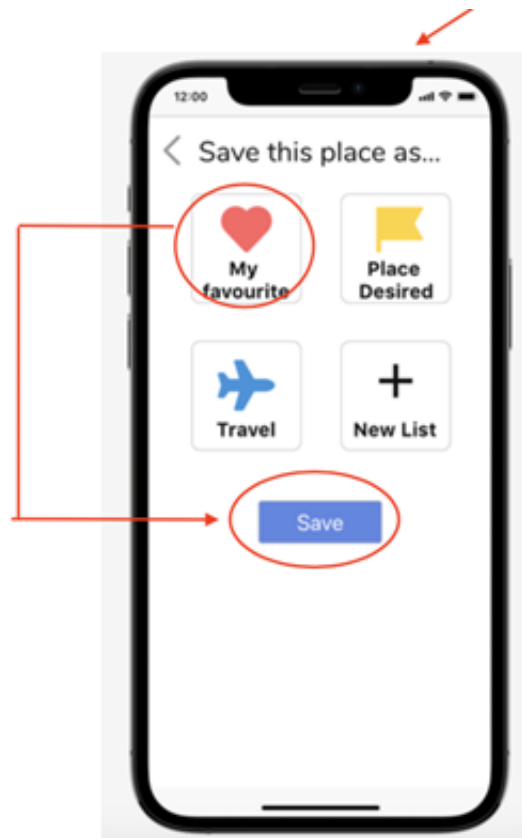
1. Search for save



1. Search for save



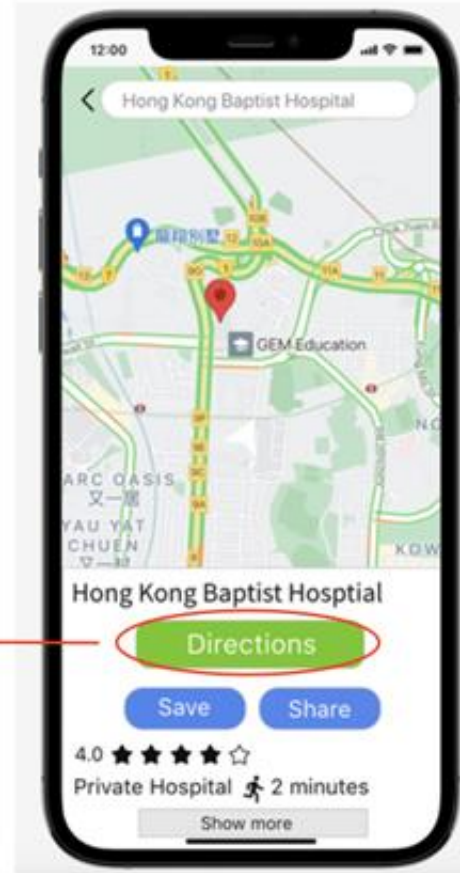
1. Search for save



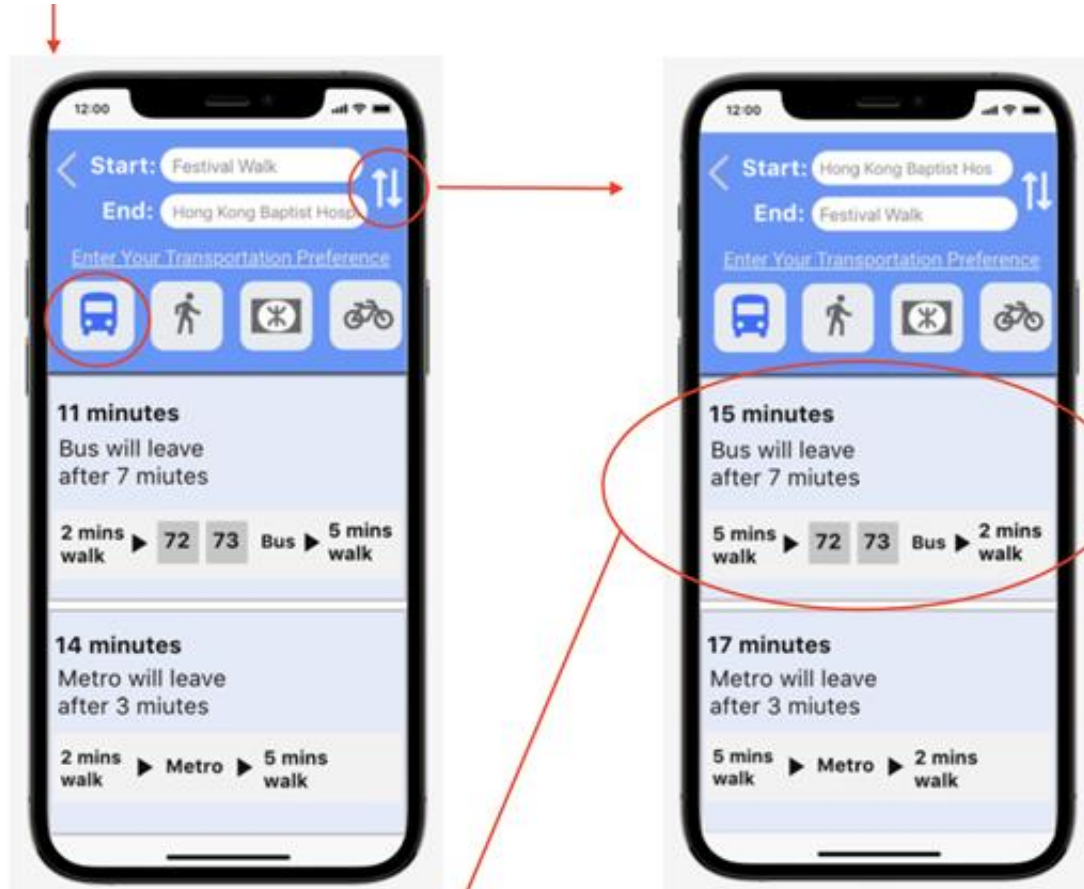
Search for navigation



2. Search for navigation



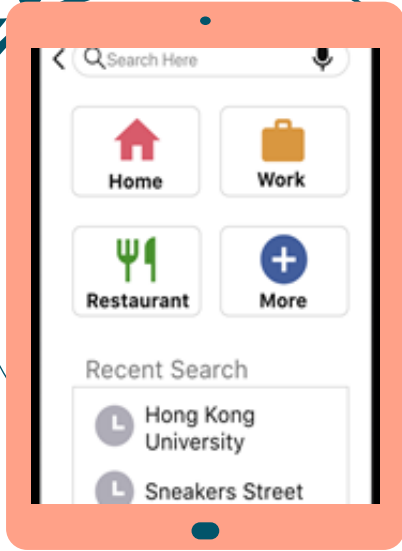
2. Search for navigation



2. Search for navigation



Accessibility and Usability



Proximity

Items are grouped to get attention



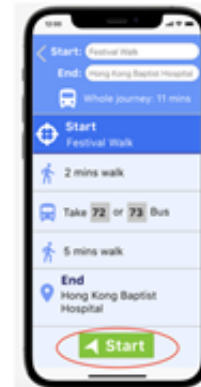
Contrast

Mainly consists blue & white



Consistency

Same design for repetitive icons/ word



Accessibility and Usability



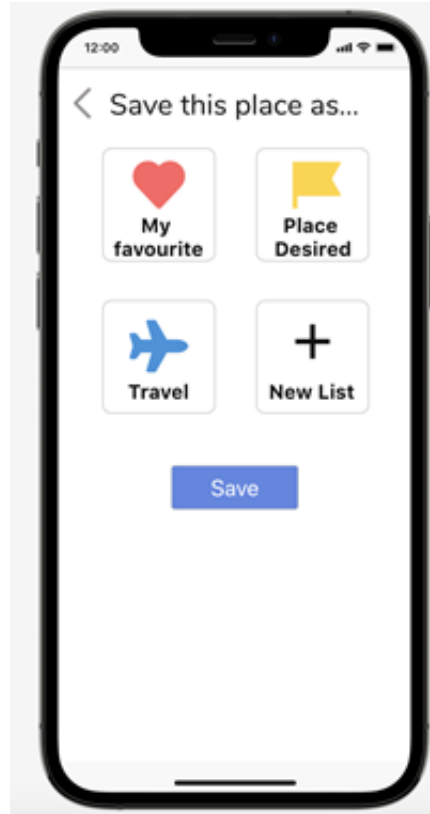
**Offer users
with control**

Provide return
button



Simplicity

Simplify the
menu bar





5. Feedback from elderly

Feedback

Wordings



Examples can be provided



Colour contrast



Need to balance between simple and detail

Icons



More descriptions are needed



Not to use unfamiliar icons



6. Lessons learned

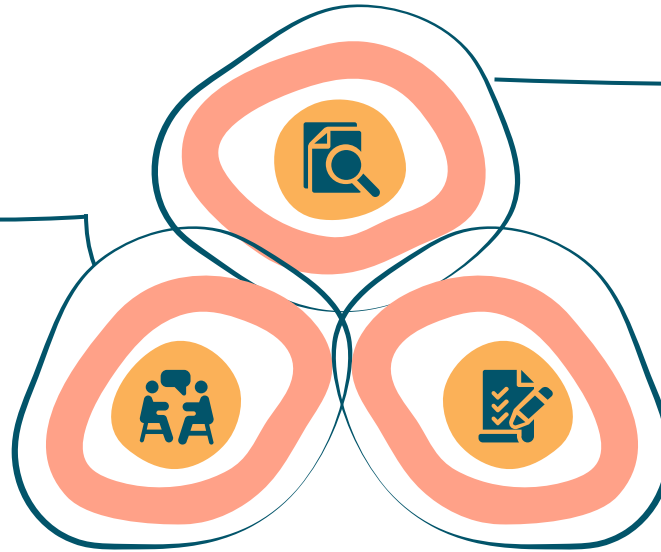


Lesson learned

01

See things from
different angles

Elderly view?
Your view?



02

Embrace Advice
Not only about
the good sides

03

Trial & Error
Don't be afraid to
make changes

The background is white with decorative elements in the corners. Top-left: a brown leafy branch and a small orange triangle. Top-right: orange and peach abstract shapes with a blue line. Bottom-left: concentric orange and peach circles with a dark blue center, and wavy peach lines. Bottom-right: a brown leafy branch, orange and peach abstract shapes, and a cluster of small orange diamonds.

Thanks!