

<b>User Story: As a user, I would like to see the suggestions while inputting the destination</b>		
<b>Tasks</b>	<b>Estimate time</b>	<b>Owner</b>
Application shows the possible destination as an autocomplete list for the textbox	2 hours	Nathan
<b>User Stories: As a user, I would like to see the shortest path to my destination highlighted on the map</b>		
<b>Tasks</b>	<b>Estimate time</b>	<b>Owner</b>
Specify the navigation nodes and configure the database to make these nodes be able to correspond to any destination	6 hours	Yao
Create the database for the edges between all the navigation nodes	4 hours	Zilun
Apply the shortest path algorithm to find the route to the destination	4 hours	Yao
Show the path on the map screen	4 hours	Gott
<b>User Story: As a user, I would like to have a step-by-step instructions to guide me to the destination</b>		
<b>Tasks</b>	<b>Estimate time</b>	<b>Owner</b>
Automatically generate the instruction from the path between any two navigation nodes in the route	8 hours each	Yao Zilun
Automatically generate the instruction from the navigation node to the real destination	8 hours each	Zilun Nathan
Design a UI for showing the instruction on the screen	4 hours	Gott
Implement the UI and interactions for this screen	10 hours each	Gott Xiaojing
Provide the way for the user to respond whether he/she has completed each step of the instruction or not	4 hours	Zilun
<b>User Story: As a user, I would like be able to re-input my location if I am away from the directions.</b>		
<b>Tasks</b>	<b>Estimate time</b>	<b>Owner</b>

Design a screen to help user to re-figure out where they are	4 hours	Gott
Implement this helper screen and connect it to the existing QR-code scanner and the manual location input	8 hours	Xiaojing
Re-calculate the shortest path and restart the navigation	4 hours	Yao
<b>User Story: As a user, I would like to have easy-to-find qr code on the wall at every corner,crossroad and entrance</b>		
<b>Tasks</b>	<b>Estimate Time</b>	<b>Owner</b>
Print the qr codes out and put it on the corners and entrances of the test building	30 minutes	Nathan
<b>User Story: As a user, I would like to be able to manipulate the map to view where I am better</b>		
<b>Tasks</b>	<b>Estimate Time</b>	<b>Owner</b>
Implement scrolling the map vertically and horizontally	4 hours	Nathan
Implement zooming the map in and out.	6 hours	Nathan
<b>User Story: As a user, I would like to have a good user experience using an app</b>		
<b>Tasks</b>	<b>Estimate time</b>	<b>Owner</b>
Implement the mobile-app-like transitions between pages	8 hours each	Gott, Nathan
Design and Implement the navigation menu	3 hours each	Gott, Xiaojing
<b>User Story: As a user, I would like to be able to communicate with people who are currently inside the building.</b>		
<b>Tasks</b>	<b>Estimate time</b>	<b>Owner</b>
Design and implement the messaging screen	8 hours	Xiaojing
Show the available users inside the building	6 hours	Zilun

Allow the user to request help from the person inside the building	6 hours	Yao
Allow the user to set the status offline	2 hours	Yao

The remaining user story:

Theme, As a _____	I would like to	Need to add "if time follows"
Administrator (Building Owner) <sup>18</sup>	have an API to add destination and new map data	Yes