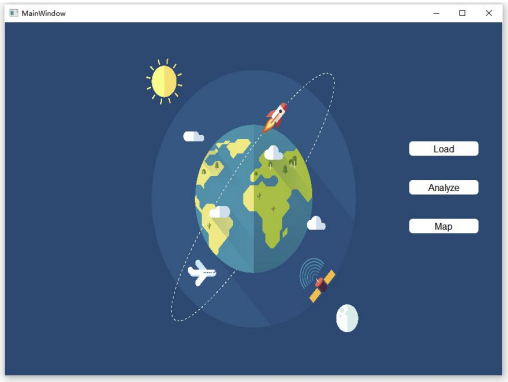
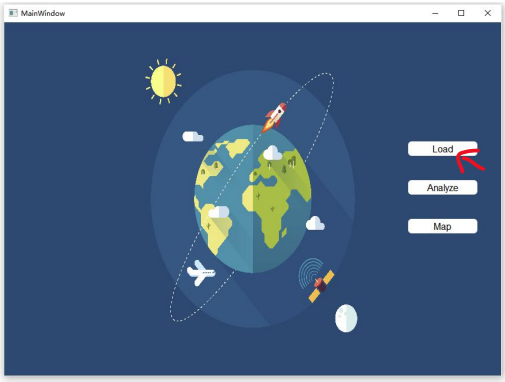
HOW TO RUN MY CODE

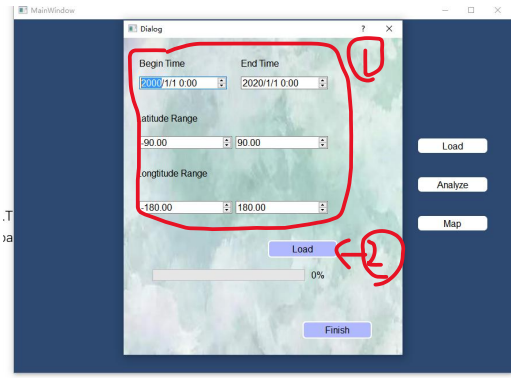
1. After open the "code" file, you can choose either to run my code in "Final_Project\code\code_run_on_Qt_2017MSCVrelease" on the platform of Qt 5.14.2-2017_MSCV_64bit_release(NODE:please use the release version rather than the debug version!!!!) version **or** straightforward click the "FINAL_03.exe",whose path is "Final_Project\code\you_can_run_the_FINAL_03_exe_in this_file". Then you can see the mainwindow as below:

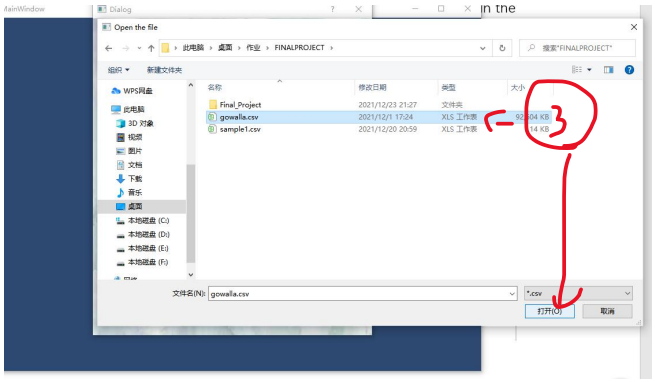


2.Now we need to click the "Load" button.

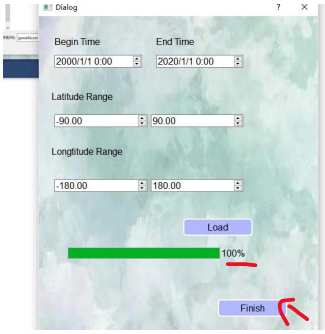


2. Then you can choose the parameters of the data to be loaded freely as you want in the load dialog. After choosing the parameters, you just need to click the "load" button.
   Then choose the file named "gowalla" showed on canvas before. Then the data will start to be loaded, which you can tell from the progress bar below.

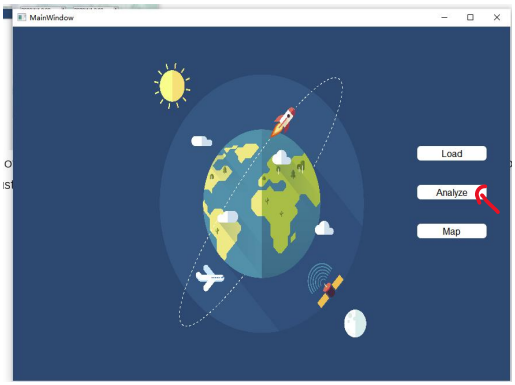




After the progress bar going to 100%, click the button “finish” to close the dialog.

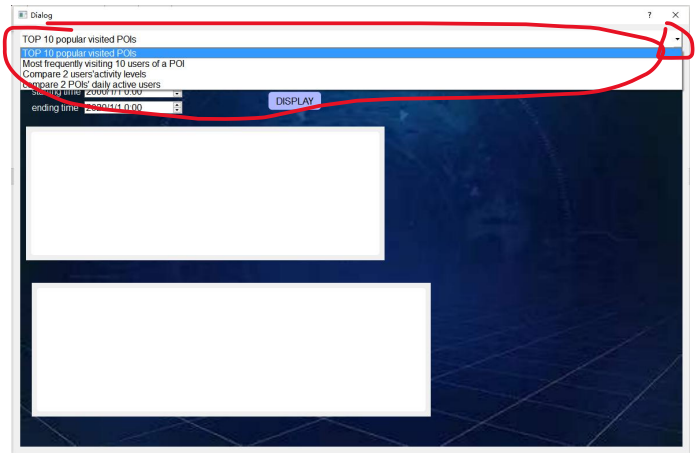


3. Now we can click the “analyze” button on main window to analyze the data that we loaded just now.



You can choose any one of the four functions in the comboBox.

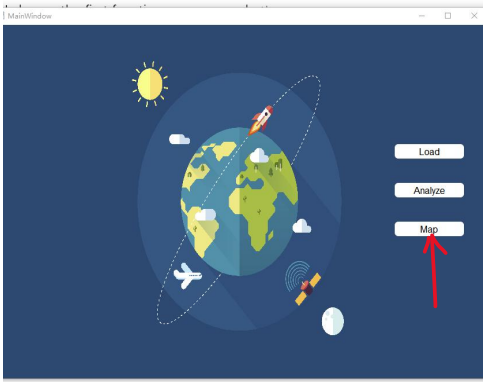
On each corresponding interface of the function,you just need to first choose the parameters in spinboxes and then click the corresponding button to display the result.



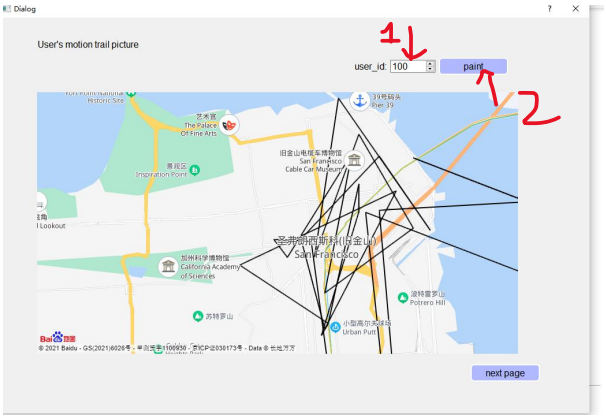
Now I choose the first function as an example.

Other functions are used in similar ways.

4.Besides analyzing the data in “analyze” dialog, we can also click on “map” button after loading the data.

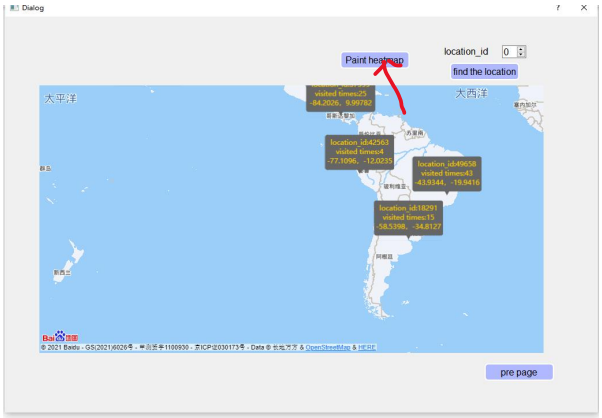


Then you can choose the user_id you want to draw his or her motion trail picture.

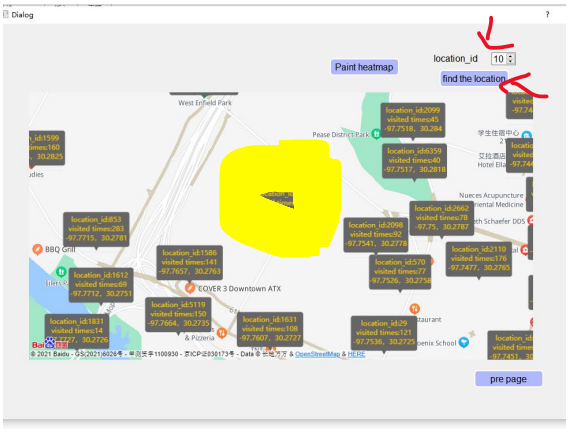


On next page, you need to click the “paint heatmap” first to draw all points on map.

Please note that the drawing process may be a little long since the size of data is considerable. Please wait patiently for several seconds until the yellow labels emerge on the map.



Then you can choose whatever location_id on the map and click the “find the location” button to find it. The map’s central point will be the one you choose.



Then you finish testing all the functions I realize in the project!