

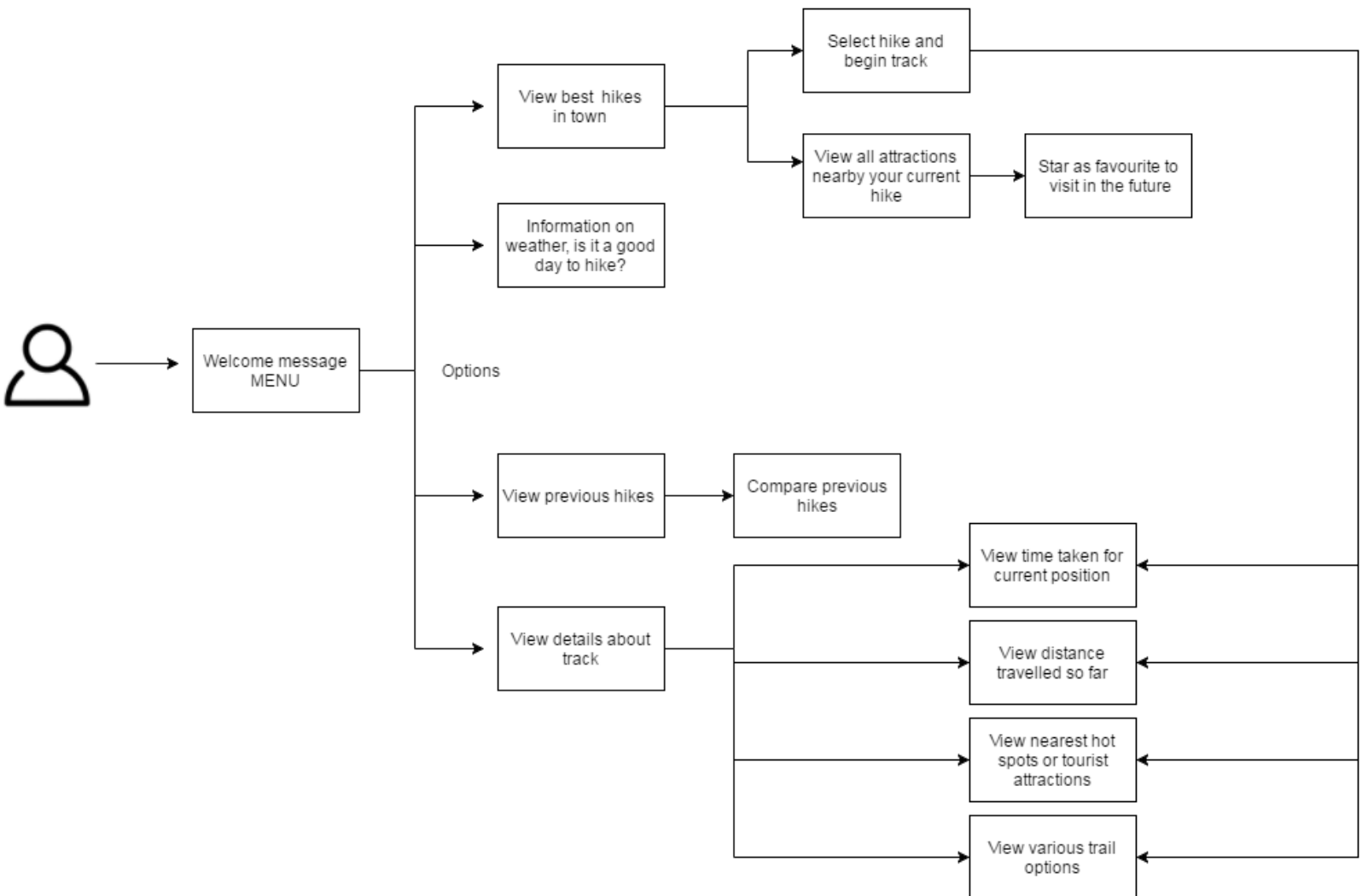
Hiking Pal - High-level Design#2

By Group#9

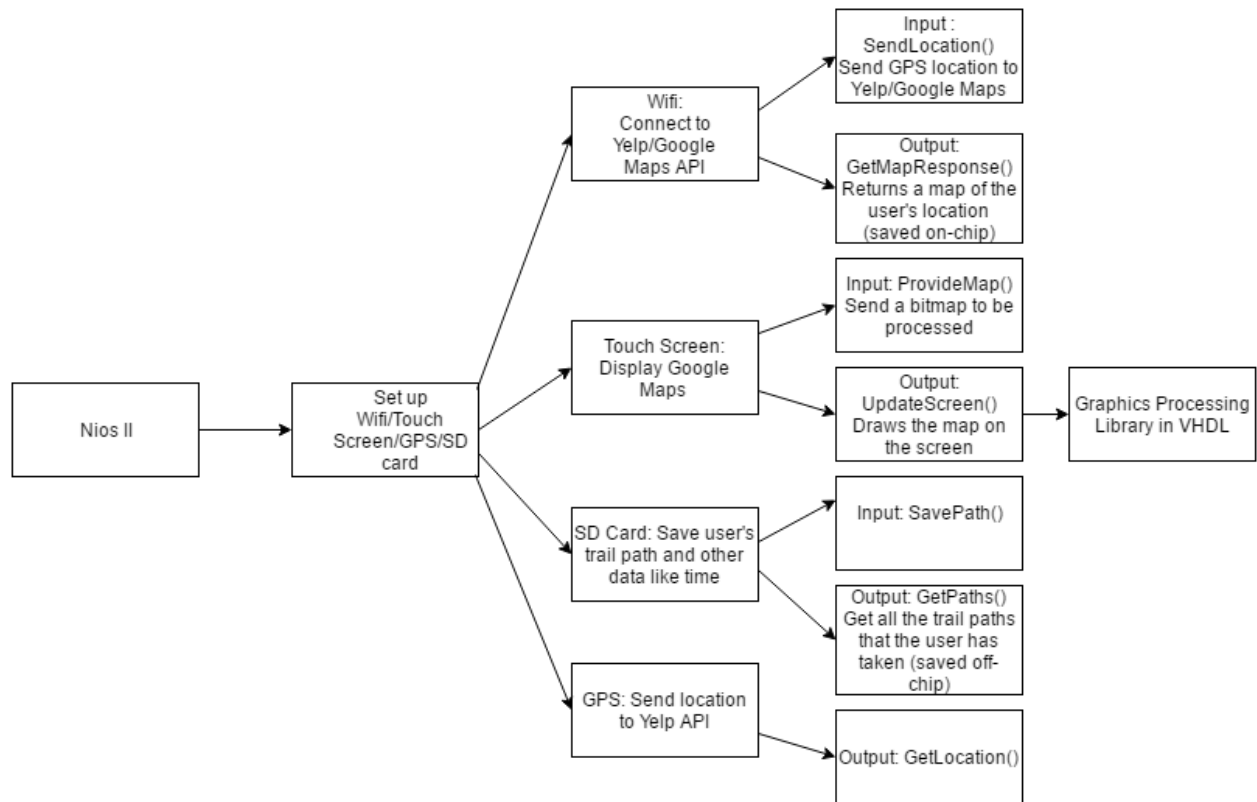
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Hiking pal is a GPS based tracking system for hiking lovers. It can track the hiking path, record interesting spots for specific attractions during the trip and save the route taken, details such as time and distance travelled as well as visited highlights for use or review in the future.

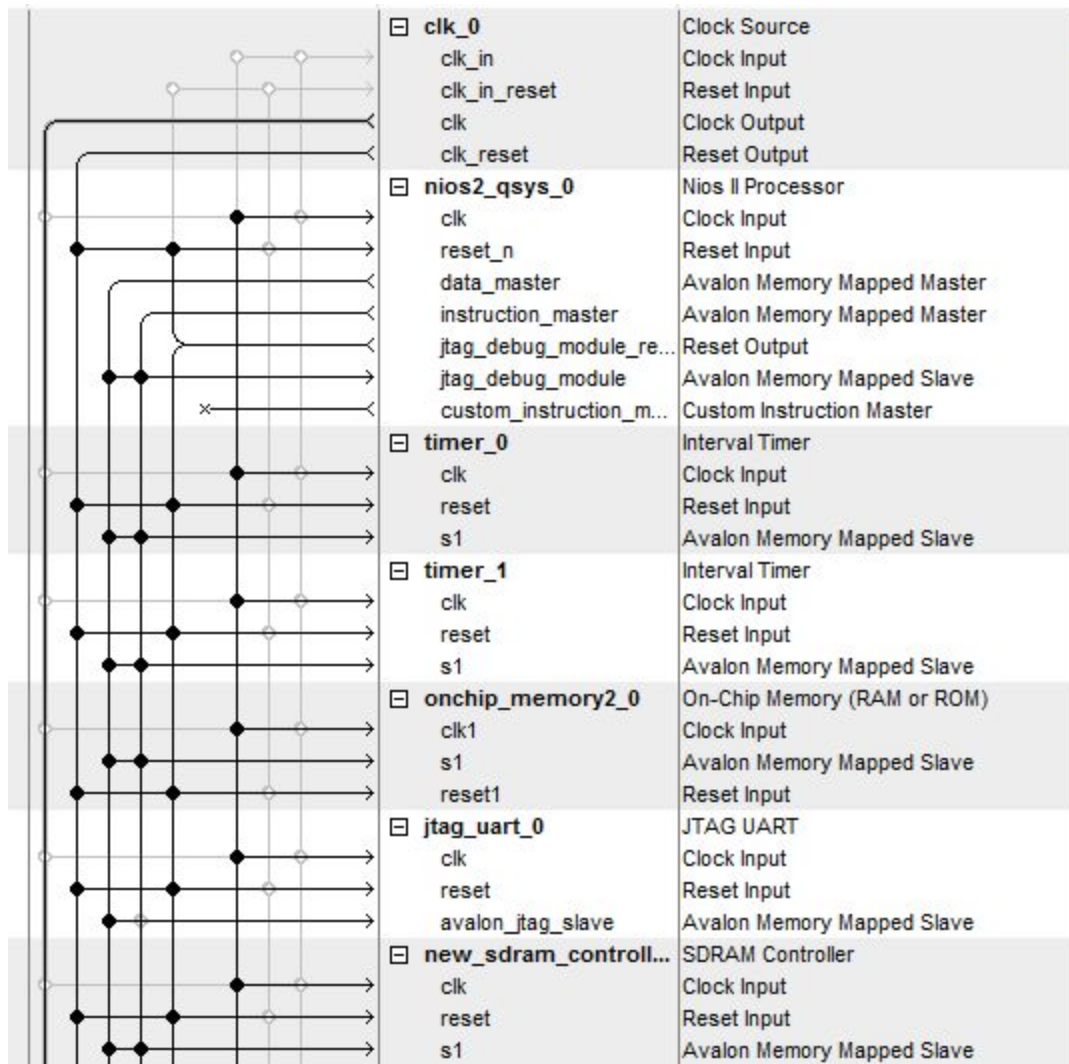
User Case Diagram

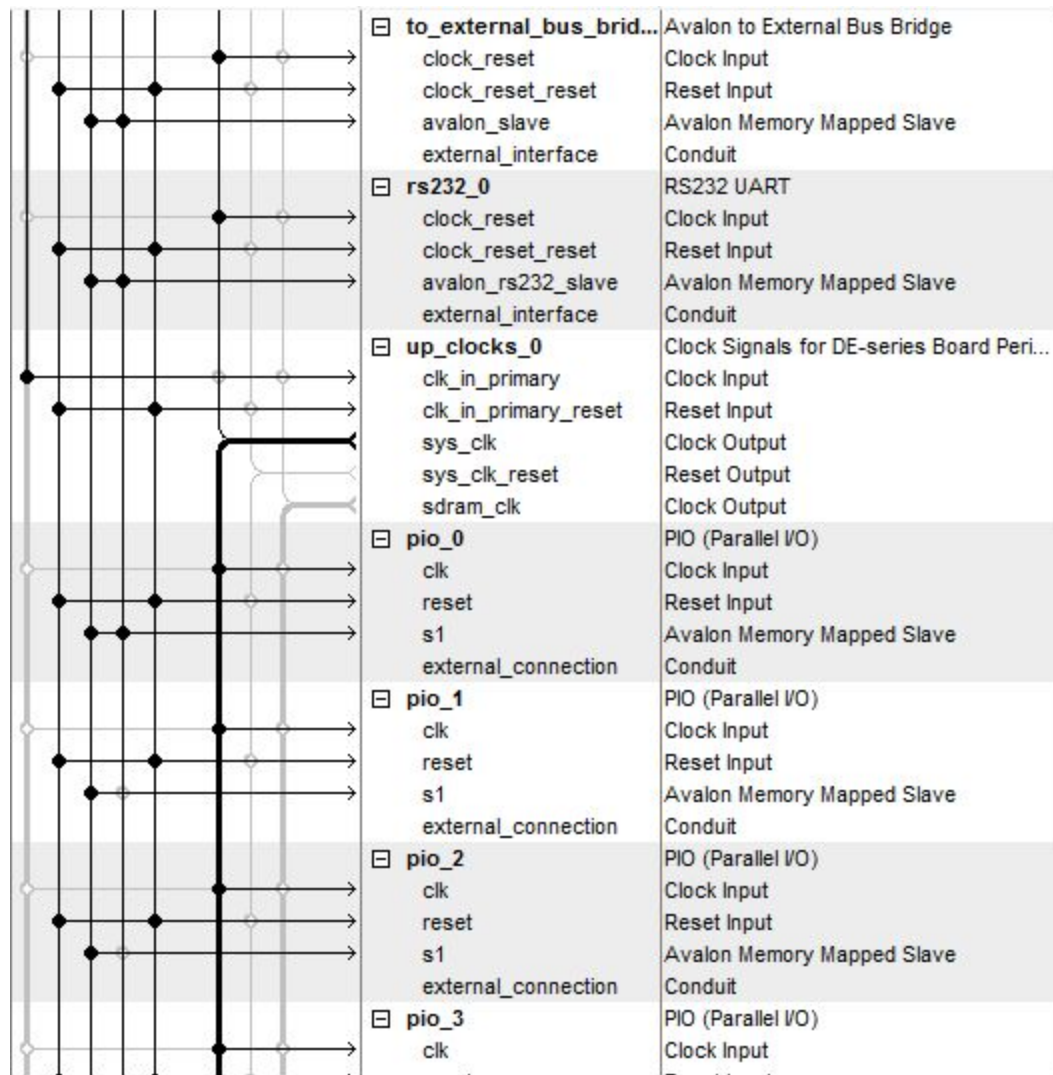


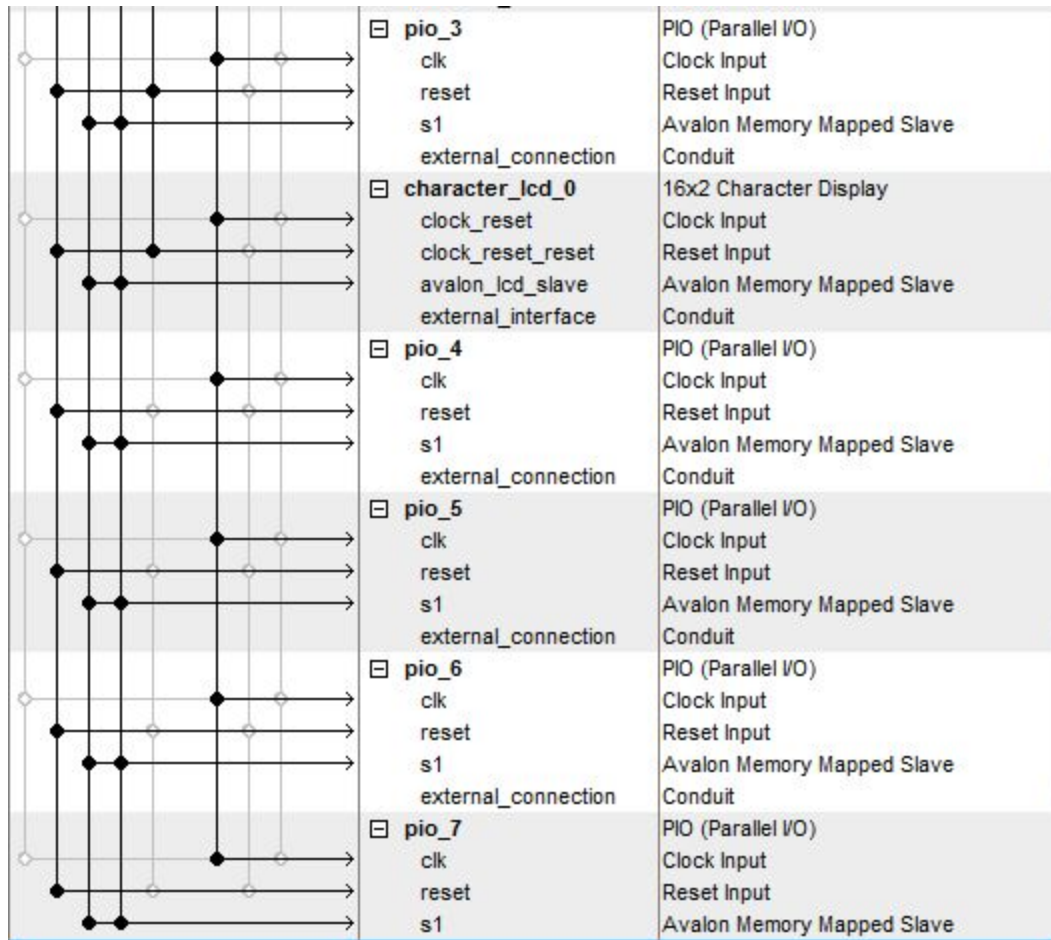
Software Design



Hardware Design





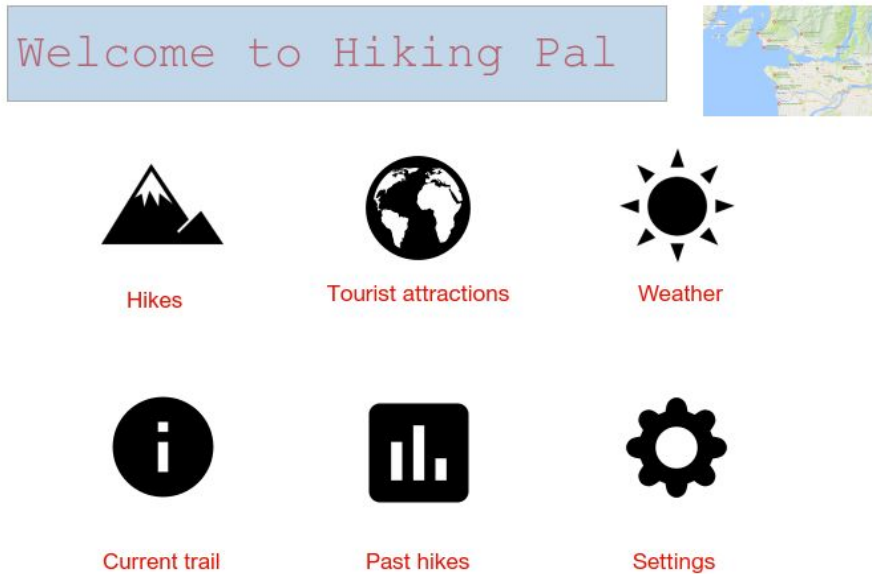


GUI

Some of the visioned prototypes for this design are included below. The aesthetics and other details will be enhanced on more demonstrations and on taking user inputs.

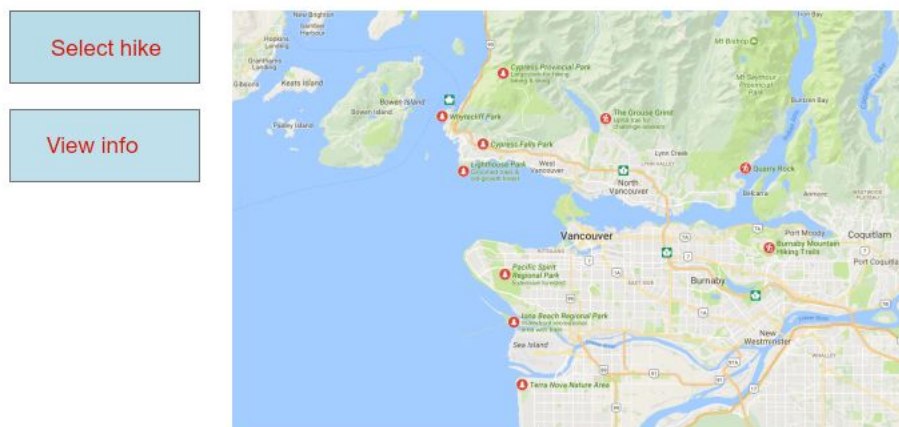
1. Menu prototype : The user is met with the welcome screen and is provided with various options. Hikes will lead the user to view hikes on the map in the surrounding region. Tourist attractions will lead the user to view tourist attractions in the surrounding region. Weather will provide the user with weather information and

whether it is plausible to go on a hiking trip for the day. Current trail will give the user up to date information on the trail that he/she is currently on. Past hikes will give the user the option to compare previous hikes.



2. Choose hikes amongst available options: The user will be shown a map with hikes highlighted on it. The user will be able to select which hike he/she would like as well as view information on the same.

Hikes



3. Weather information: The user will be provided with an option to view the weather for the day and decide for themselves whether weather conditions permit a good trip.

Weather

Today's Statistics



8 degrees Celsius

Precipitation: 50%

Humidity: 94%

Wind: 11 km/hr

4. Comparisons between saved hikes : The user will also be provided with an option to view and compare the data saved from previous hikes.

Previous Hikes

Pacific Spirit Regional Park



Date: 19/01/2017

Total time: 2 hours

Time started: 11:35 am

Distance travelled: 1.9 mile

Deas Island Regional Park



Date: 11/01/2017

Total time: 2.5 hours

Time started: 7: 45 am

Distance travelled: 1.8 miles

5. Current Trail (current location and options to change trail) : The user can also track his current hike as well as change his trail or save his track details for use in the future.

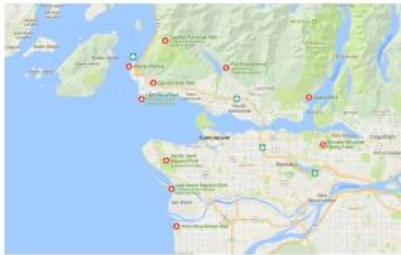
Current Trail

Start new
trail

Change trail

Stop and
save

Location



Date: 20/1/2017

Distance travelled: 1 miles

Time travelled so far: 1:00:56