

Assignment 05

COS30017 - Software Development for Mobile Devices

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October 1, 2014

1. Task 1

2. Task 2

2.1. User Stories

1. As a recreational road-cyclist, I want to get the sun rise time and weather conditions so that I can maximise the time riding in daylight before I go to work.
2. As an adventure tour guide, I want to know the sun set times for a period of a week so that my group of campers can have their tents set up before sundown.
3. As a group runner, I want to be able to share the sun rise time with those that I'm running with so that we can all be ready to run as soon as there's daylight.
4. As a zookeeper, I need to know the sun rise times so that I can plan to clean the animal enclosures and feed the animals before the zoo opens.

2.2. User Stories vs. Scenarios

When comparing user stories and scenarios as a way of showing how an application may be used, I think it user stories are better to use, due to the fact that they are shorter and tend to only focus on one specific feature. The Scenarios have a lot of information, and potentially every single feature can be listed as part of the scenario story. This leads to having to go thoroughly through the scenarios to actually get the important information out.

2.3. Prototype

2.3.1. Screenshots

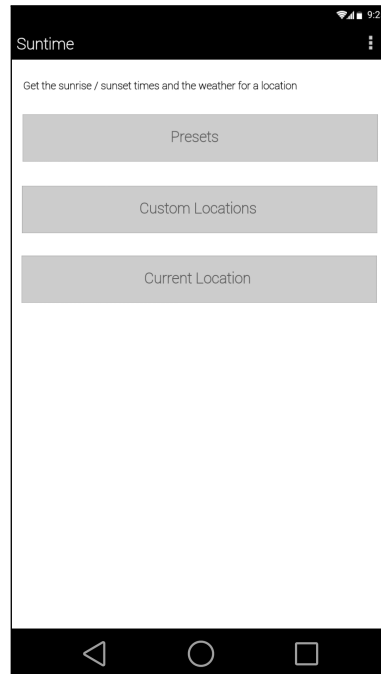


Figure 1: HOME

Description: This is the first screen the user will see. The user has three options for selecting a location; *Presets*, *Custom Locations*, and *Current Location*.

Features: Options for locations as described above. Can detect current location as an option.

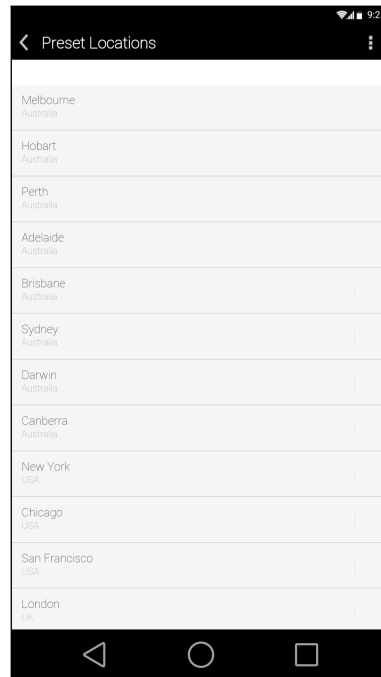


Figure 2: PRESETS

Description: The user can select one of the preset locations from this list and they will then be taken to select a date / date range.

Features: Select from pre-built set of locations.

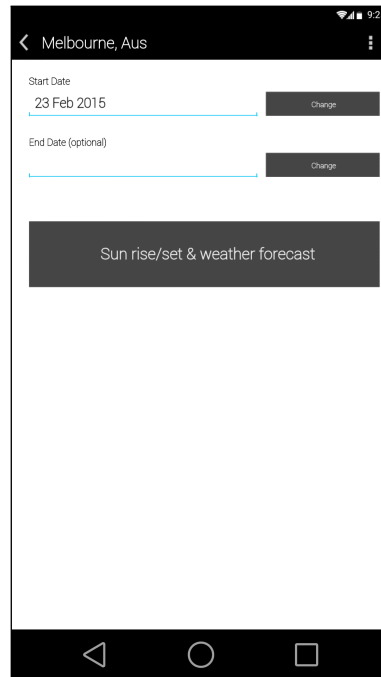


Figure 3: DATE-SELECT

Description: User can select a single date or date range to view the sun rise/set and weather. A different view is shown to them depending on whether a single date or a range is selected.

Features: Select a date or a date range to view sun times and weather forecast.

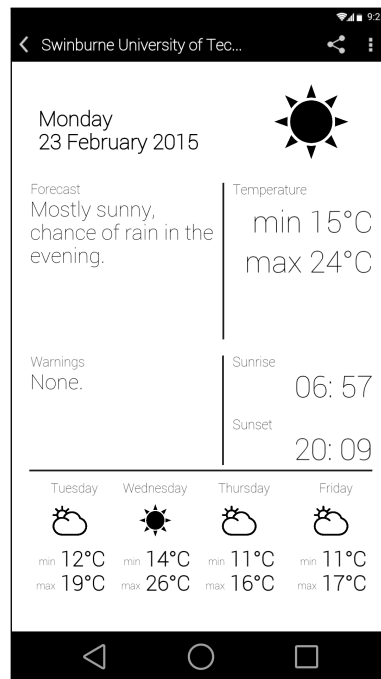


Figure 4: SUN-WEATHER

Description: This screen shows the weather and sun rise/set times for the selected date. The weather for the next 4 days is also shown. User can share this information by pressing the share icon in the action bar.

Features: Show sun rise/set times for date/location. Share information via SMS and email (or any other app). View weather forecast (current, and near future).

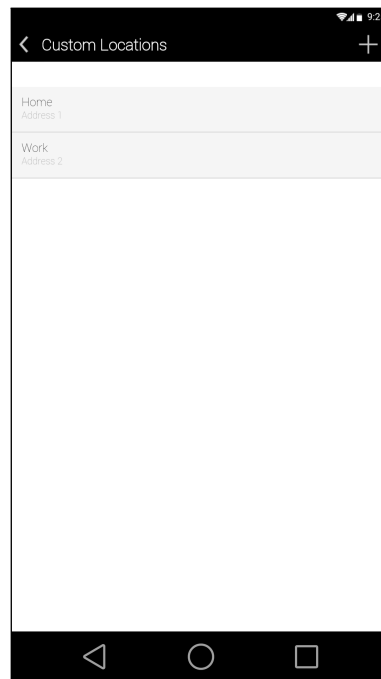


Figure 5: CUSTOM

Description: The user can select one of their previous custom locations or press the + symbol to take them to add another custom location.

Features: Add new custom location (partial).

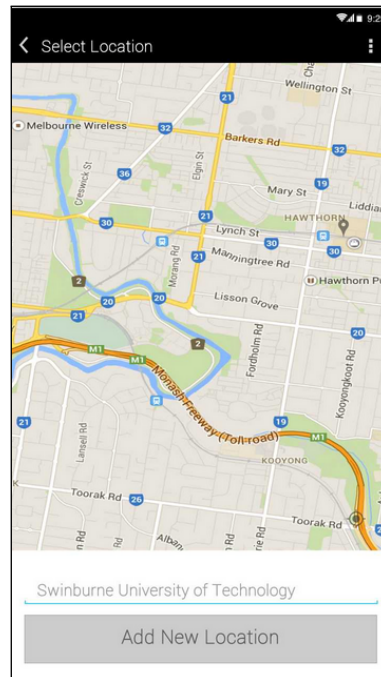


Figure 6: MAP

Description: User can either pin a point on the map or search for a location in the search bar. This will add it to the custom locations list and allow them to see the sun times and weather.

Features: Add custom locations. Integrated into Google maps. View sun rise / set times for various locations on a map.

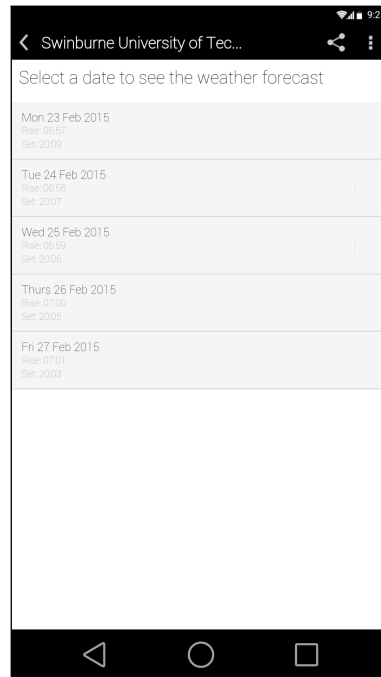


Figure 7: SUN-RANGE

Description: This screen shows the sun times for a range of dates which was requested on the previous screen *DATE-SELECT*. User can click on any date and see the full *WEATHER* screen as well.

Features: Generate table of sun rise/set times for a date range.