

# IdentiSky Detailed Design Document

Group 2 for SFWR ENG 3A04

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## 1 Introduction

### 1.1 Purpose

- a) The purpose of this documents is to show the full design of the system and how it will be implemented.
- b) This document is to be used as a reference for the development team as well as the professor and teaching assistants of SFWR ENG 3A03.4

### 1.2 System Description

- a) IdentiSky is a mobile application that identifies objects in the night sky. These objects are limited to constellations and their associated stars, planets, planes, and notable satellites. Search results are based on the user's current location, date, time, and the user's answers to questions queried by the application.

### 1.3 Overview

- a) Included in this document will be diagrams which illustrate how the project will be implemented in code. It also shows all of the use case sequence diagrams, to demonstrate what occurs in each case
- b) The first section will provide an brief overview of the entire document. Section 2 will provide a state chart for each of the application's controller. The next section(section 3) will have a sequence diagram for each use case outlined in the architectural design. In section 4, will be a class diagram which outlines in full detail how each class will be implemented.

## 2 State Charts for Controller Classes

## 3 Sequence Diagrams

## 4 Detailed Class Diagram

## A Division of Labour

Include a Division of Labour sheet which indicates the contributions of each team member. This sheet must be signed by all team members.

Figure 1: State Chart for Expert Controller class.

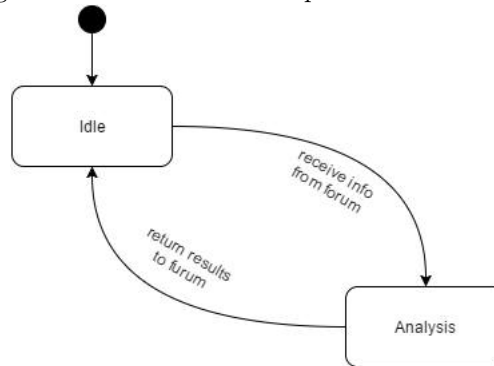


Figure 2: State Chart for Forum class.

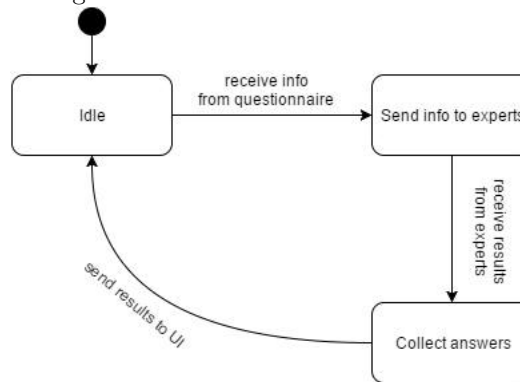
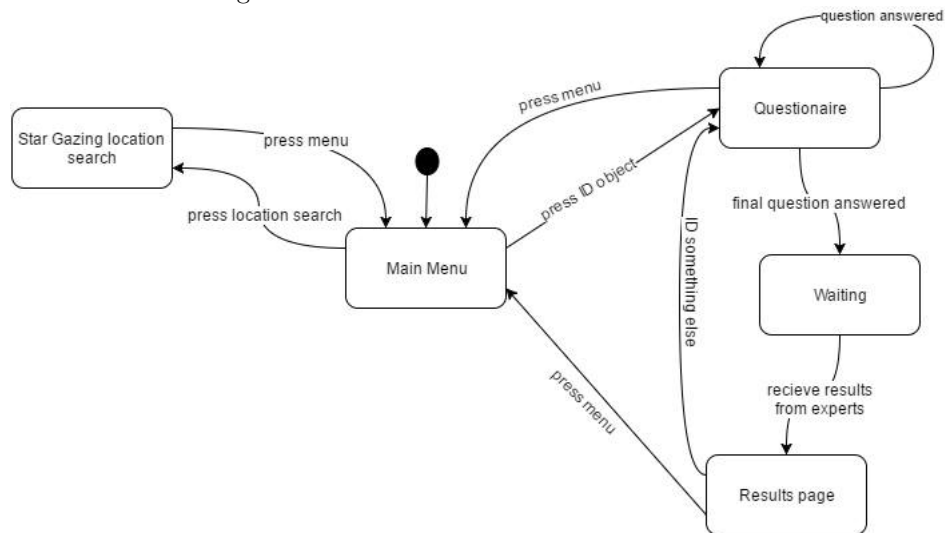


Figure 3: State Charts for UI controller class.



## IMPORTANT NOTES

- You do NOT need to provide a text explanation of each diagram; the diagram should speak for itself
- Please document any non-standard notations that you may have used
  - *Rule of Thumb*: if you feel there is any doubt surrounding the meaning of your notations, document

Figure 4: Sequence Diagram for "Identify Object" use case.

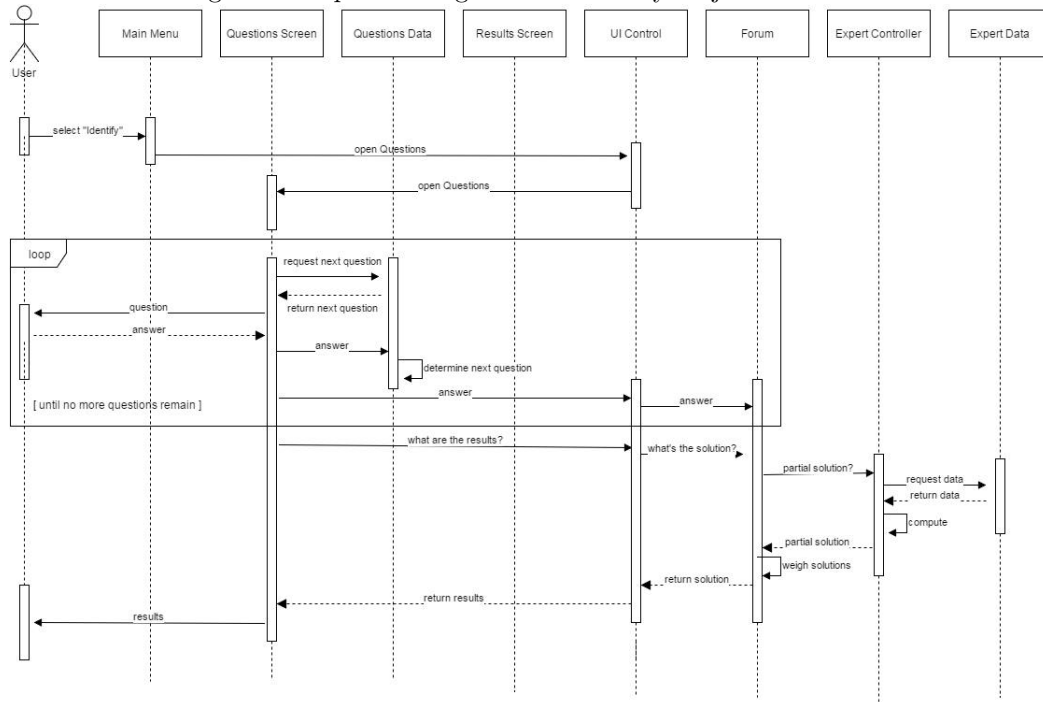
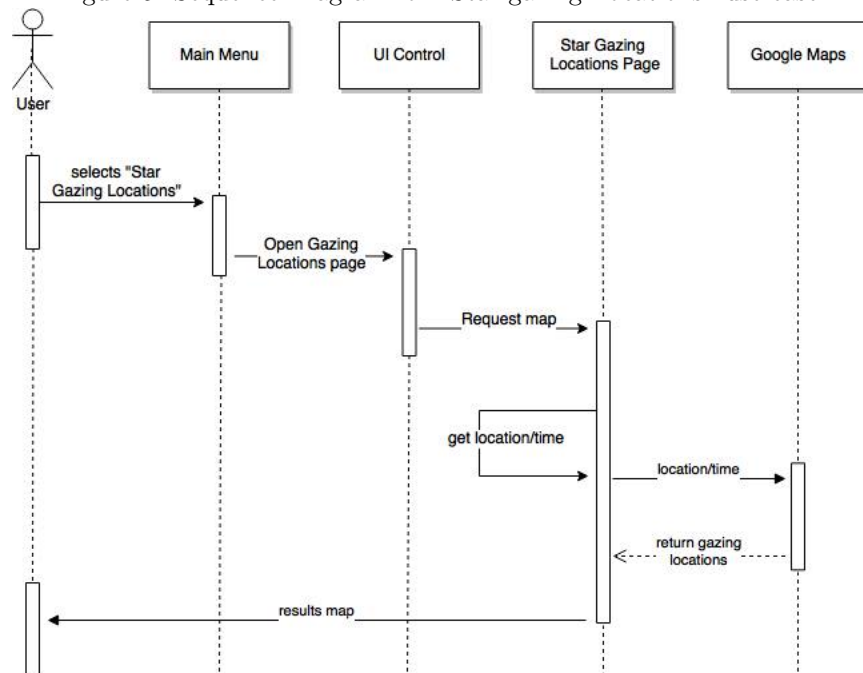


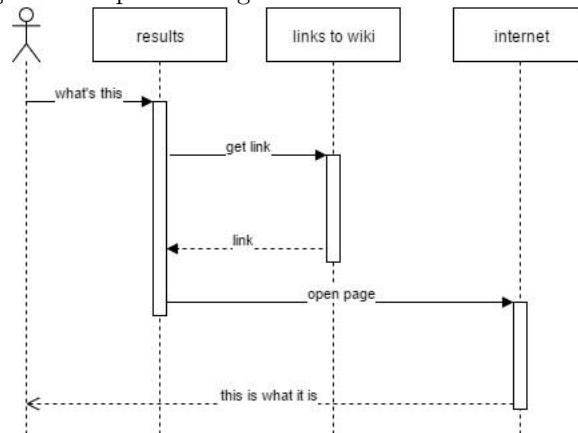
Figure 5: Sequence Diagram for "Star-gazing Locations" use case.



them

- Some diagrams may be difficult to fit into one page
  - It is OK if the text is small but please ensure that it is readable when printed

Figure 6: Sequence Diagram for "View Results" use case.



- If you need to break a diagram onto multiple pages, please adopt a system of doing so and thoroughly explain how it can be reconnected from one page to the next; if you are unsure about this, please ask me
- Please submit the latest version of Deliverable 1 and Deliverable 2 with Deliverable 3
  - They do not have to be a freshly printed versions; the latest marked versions are OK
- If you do NOT have a Division of Labour sheet, your deliverable will NOT be marked

Figure 7: Detailed Class Diagram.

