

Deliverable #3 – Detailed Design Document

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1 Introduction

The following section provides a brief overview of the entire document.

1.1 Purpose

The purpose of this document is to lay out, in detail, the overall design of the "BEER'D" application. It will first give a description of the system and a general overview of what it is for, how it is expected to be used, and why it is being developed. It also contains more specific detail in terms of the states, sequences, and classes that will be implemented in the application. This document is intended primarily for the developers of the application, the professor, and the teaching assistants.

1.2 System Description

The "BEER'D" system is a mobile application that aims to solve the question: "What beer is this?" This application is primarily being developed as a project for the third year Software Architecture class (course code SE 3A04) taught at McMaster University. A team of 6 students will design, develop, and create the application.

The "BEER'D" application will take specific inputs from a user. Based on these inputs, varying "experts" will attempt to analyse and come up with their best prediction (based on data provided by publicly available APIs) as to which beer the inputs may be identifying. The application will return and display a list of possible answers in a forum. Within this forum, users will also be able to share their answers on popular social media networks or find local stores which sell the beers referred to in the answers - based on their current location in a map.

1.3 Overview

The rest of the document is split up into three main sections:

- The first section, State Charts for Controller Classes, will contain a state chart for each controller class for the application.
- The second section, Sequence Diagrams, will contain the sequence diagrams for each use case of the application (covered in the High Level Architectural Design document).
- The third and final section, Detailed Class Diagram, will contain the detailed class diagram for the application.

2 State Charts for Controller Classes

The following section provides the state chart for each controller class for the application.

3 Sequence Diagrams

The following section provides the sequence diagram for each use case of the BEER'd application.

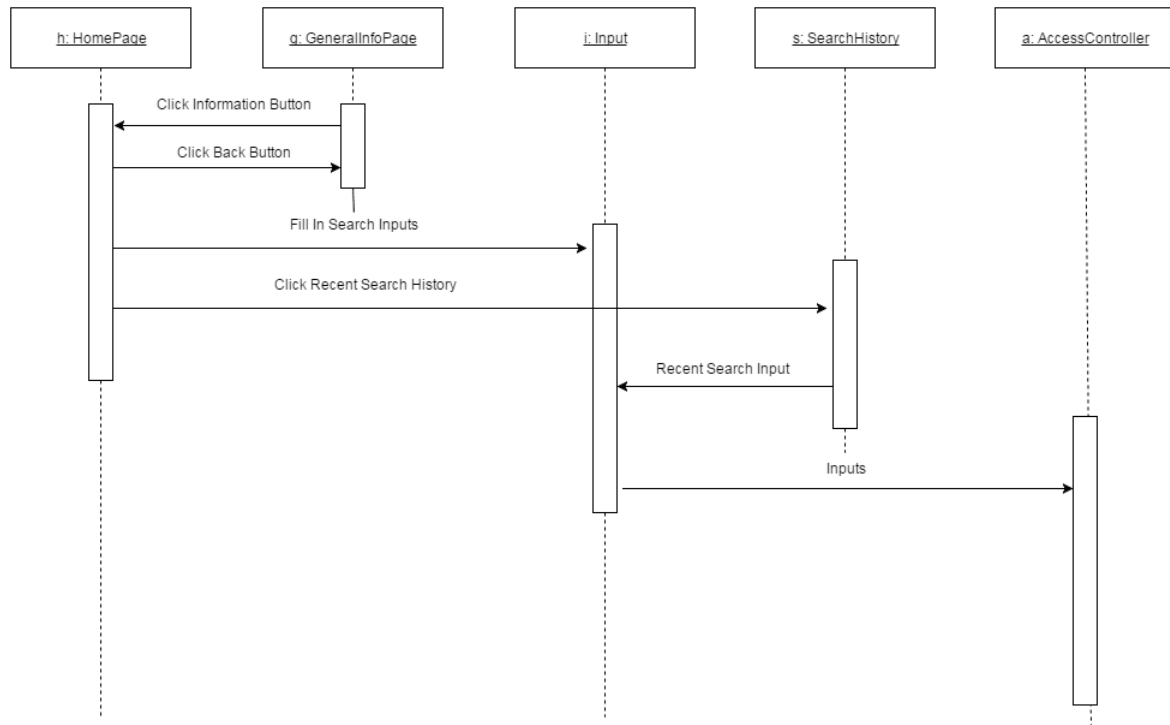


Figure 1: Sequence Diagram Part 1 for the BEER'D Application

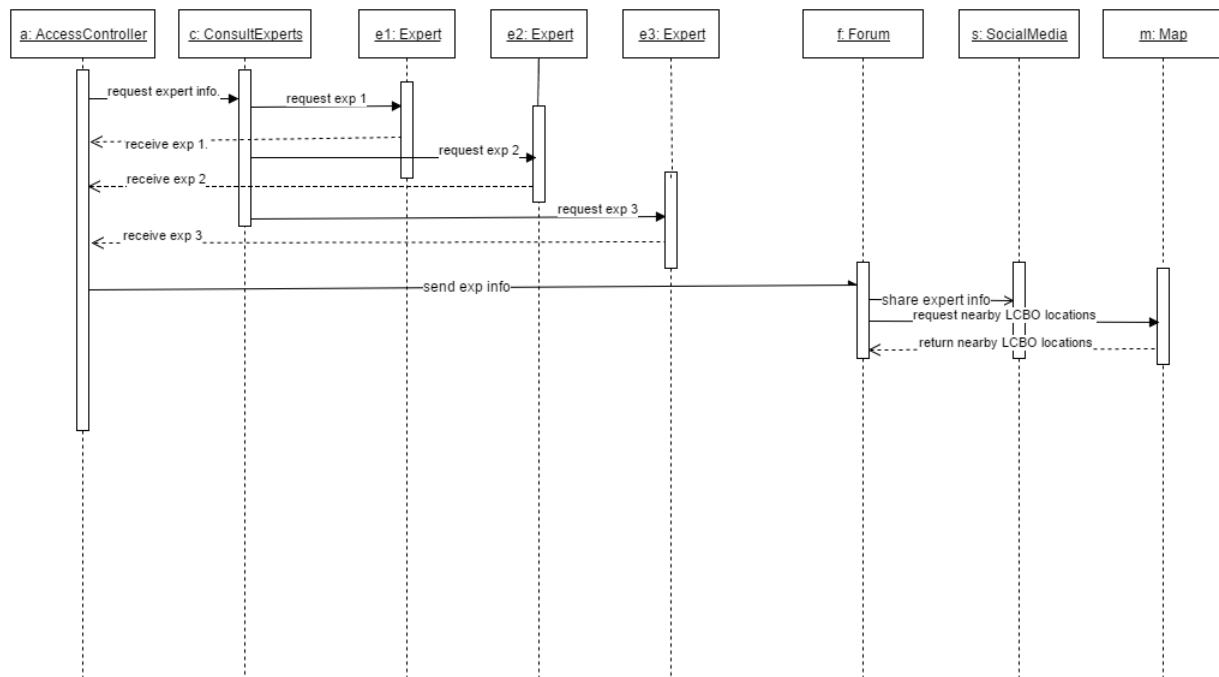


Figure 2: Sequence Diagram Part 2 for the BEER'D Application

4 Detailed Class Diagram

The following section provides the detailed class diagram for the application.

A Division of Labour

Team Member	Student Number	Contribution	Signature
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Table 1: Contributions and Signatures of Team Members