

Detailed Design Identif.ai

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1 Introduction

1.1 Purpose

The purpose of this document is to examine the architectural design of the Indentifai application in greater detail. More specifically, the interaction, behaviour and specifics of the classes within the system are discussed.

The intended audience of this document are any stakeholders, including the developers, the maintenance team, the professor(Dr. Ridha Khedri) and the teaching assistants(Andrew Le Clair and Spencer Deevy) of the course.

1.2 System Description

Identif.ai is an android application that identifies celebrities through multimedia input such as audio, photo, and text. Within the system there are three experts corresponding to each individual input. The information from each input will then be sent to their respective subsystems where it is analyzed and identification is attempted.

1.3 Overview

This remainder of this document is organized into three sections: State Charts for Controller Classes, Sequence Diagrams, Detailed Class Diagrams. The State Charts for Controller Classes section defines the required behaviour of the controller classes within the system. The Sequence Diagrams present the interactions between classes, specifically messages passed over time. Finally, the Detailed Class Diagrams will provide the specific details of each class such as methods and variables that will be used.

2 State Charts for Controller Classes

2.1 State Chart for the Main Controller

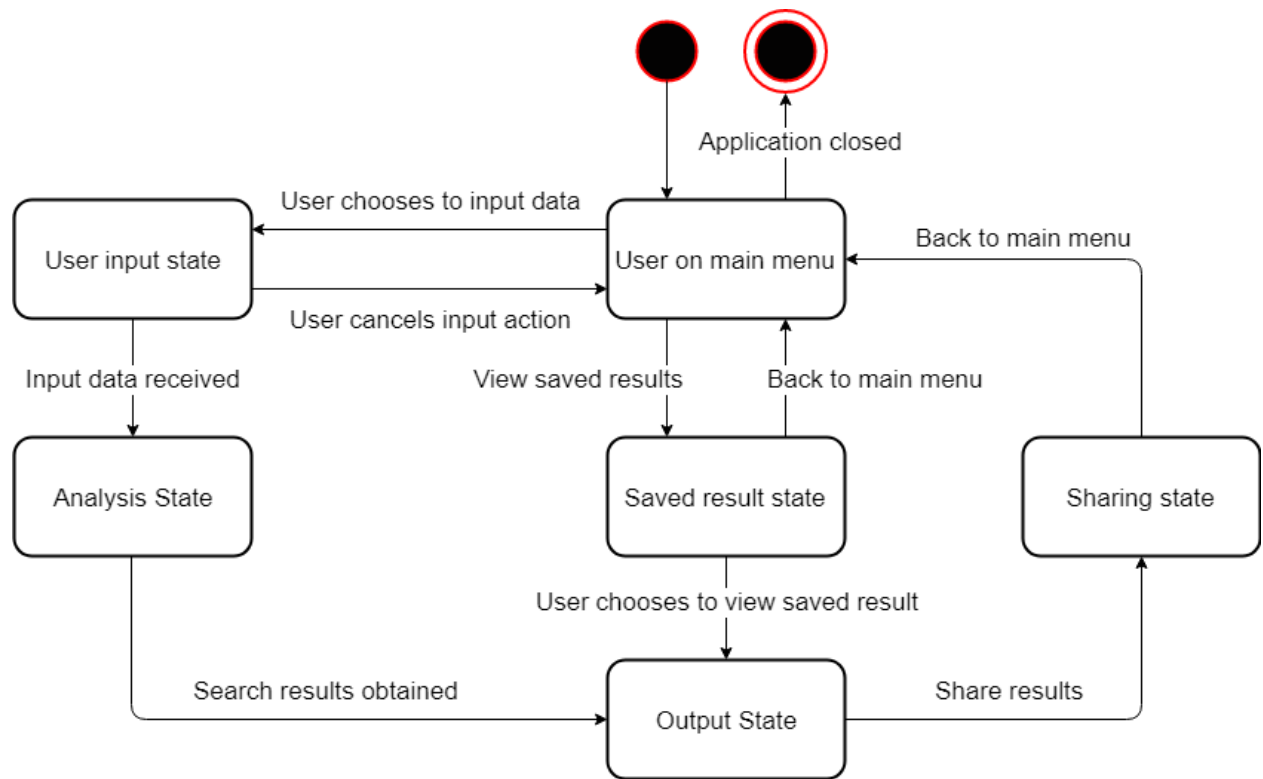


Figure 1: Main Controller

2.2 State Chart for the Input Controller

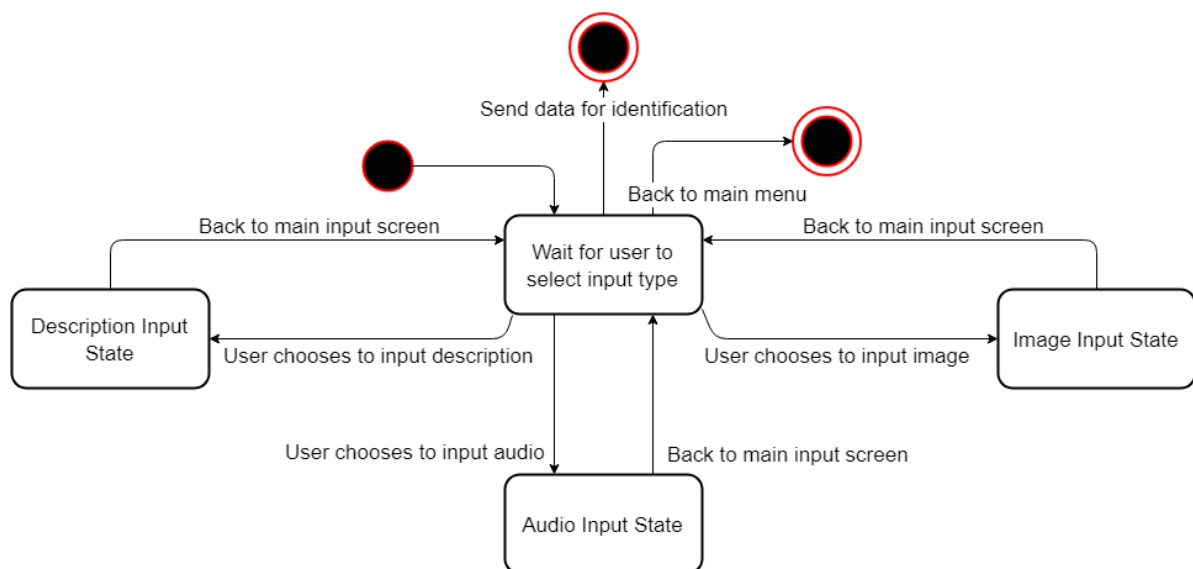


Figure 2: Input Controller

2.3 State Chart for the Analysis Controller

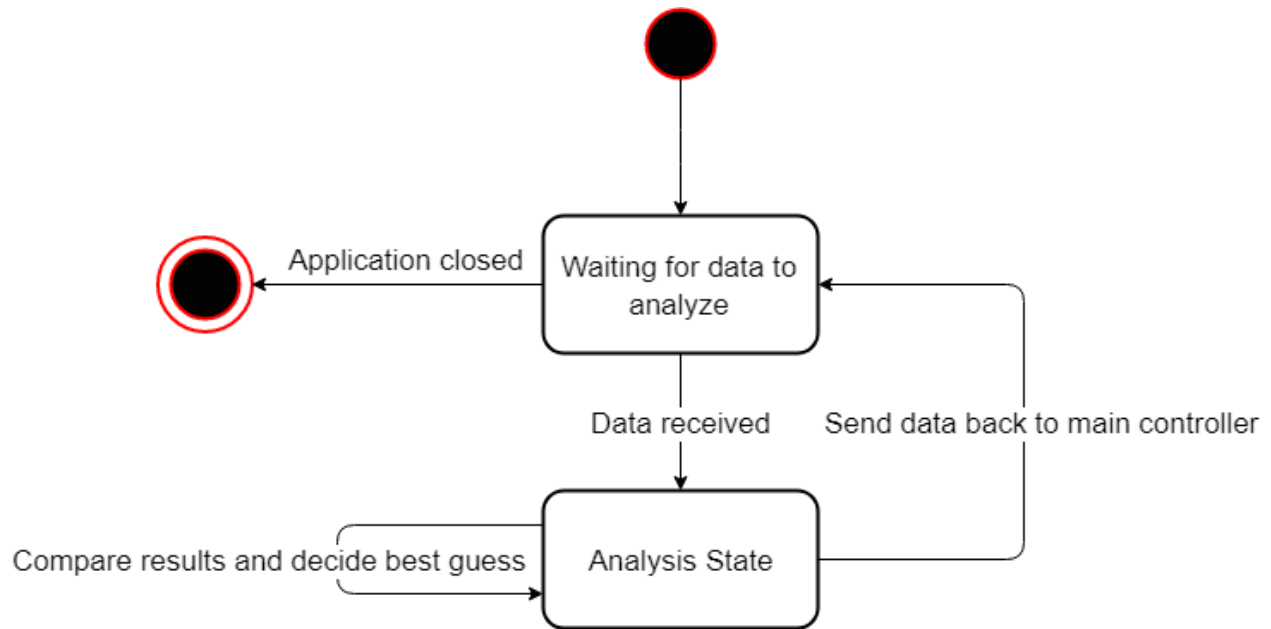


Figure 3: Analysis Controller

2.4 State Chart for the Sharing Controller

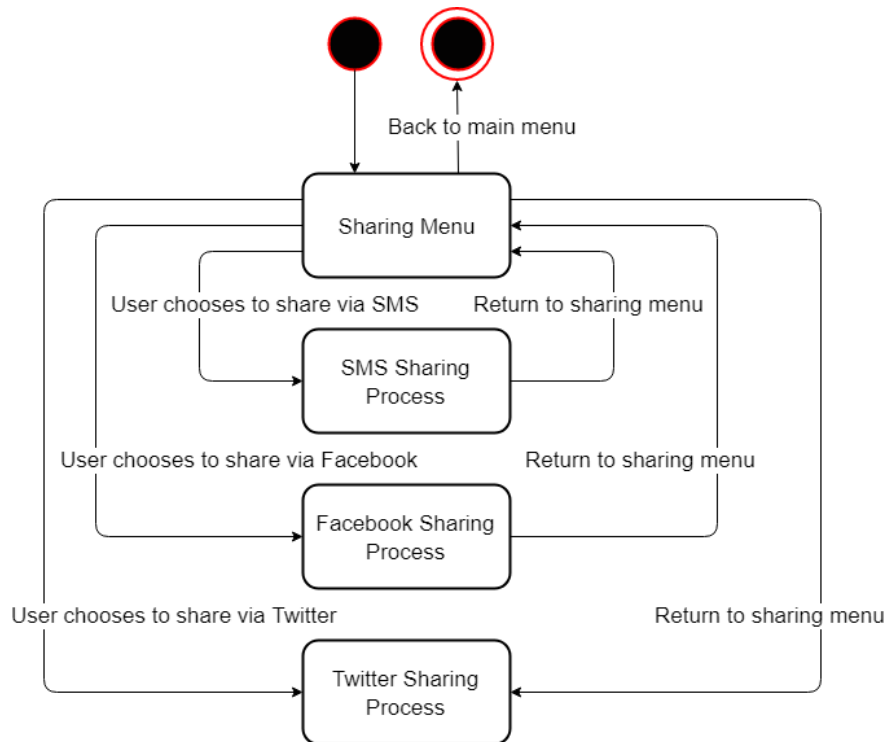


Figure 4: Sharing Controller

2.5 State Chart for the Output Controller

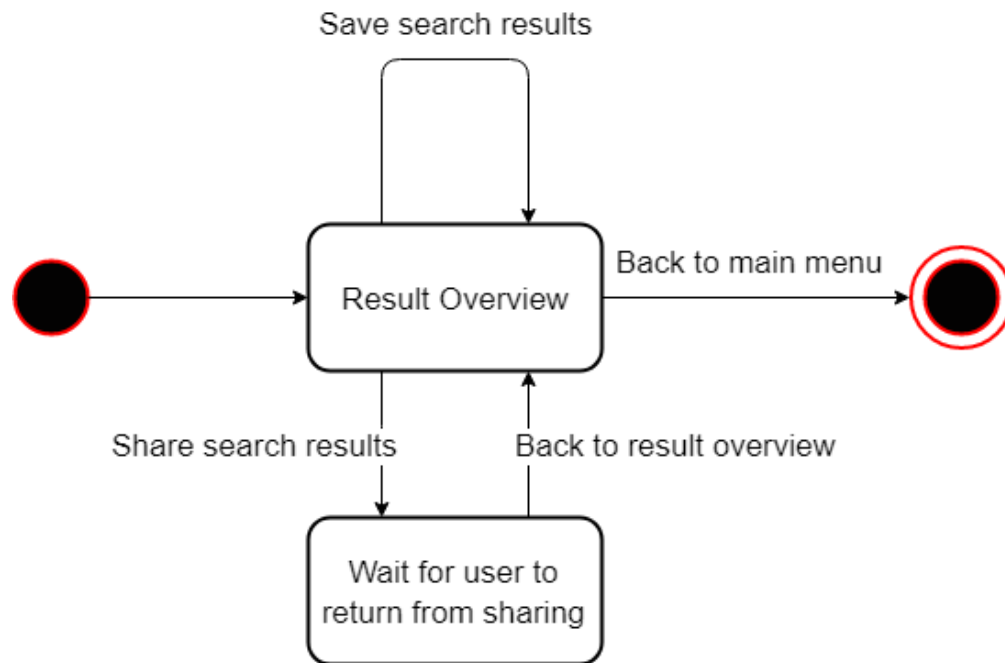


Figure 5: Output Controller

2.6 State Chart for the Data Controller

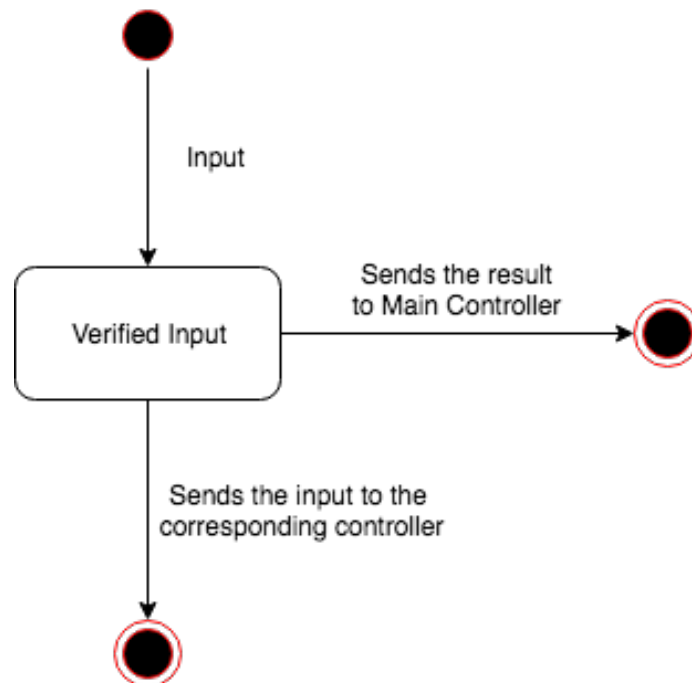


Figure 6: Data Controller

2.7 State Chart for the Audio Controller

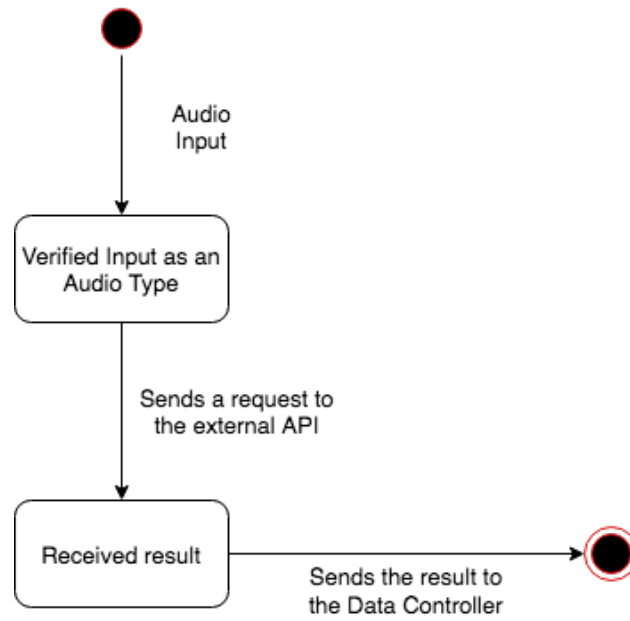


Figure 7: Audio Controller

2.8 State Chart for the Description Controller

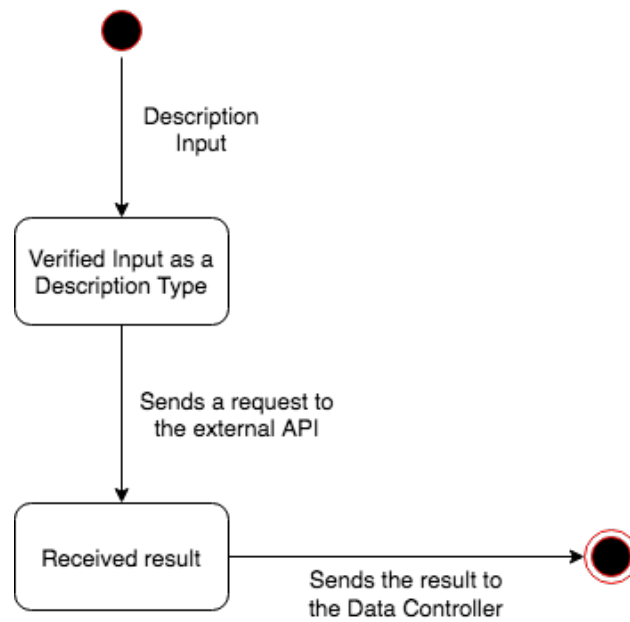


Figure 8: Description Controller

2.9 State Chart for the Image Controller

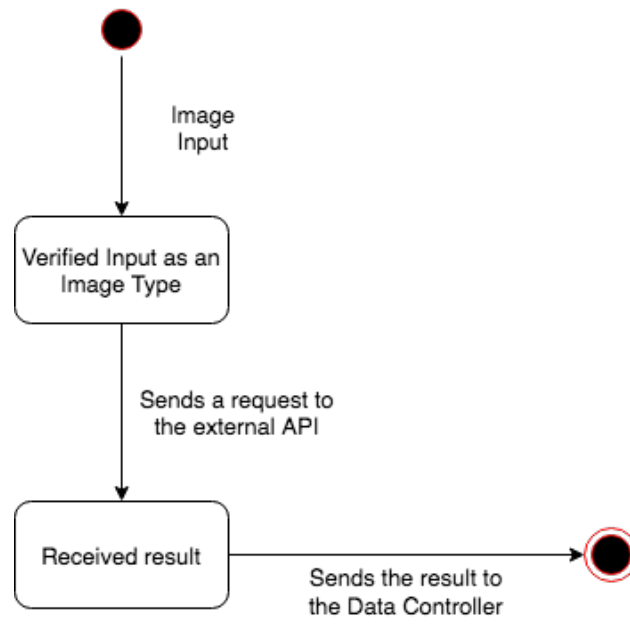


Figure 9: Image Controller

3 Sequence Diagrams

3.1 Sequence Diagram 1

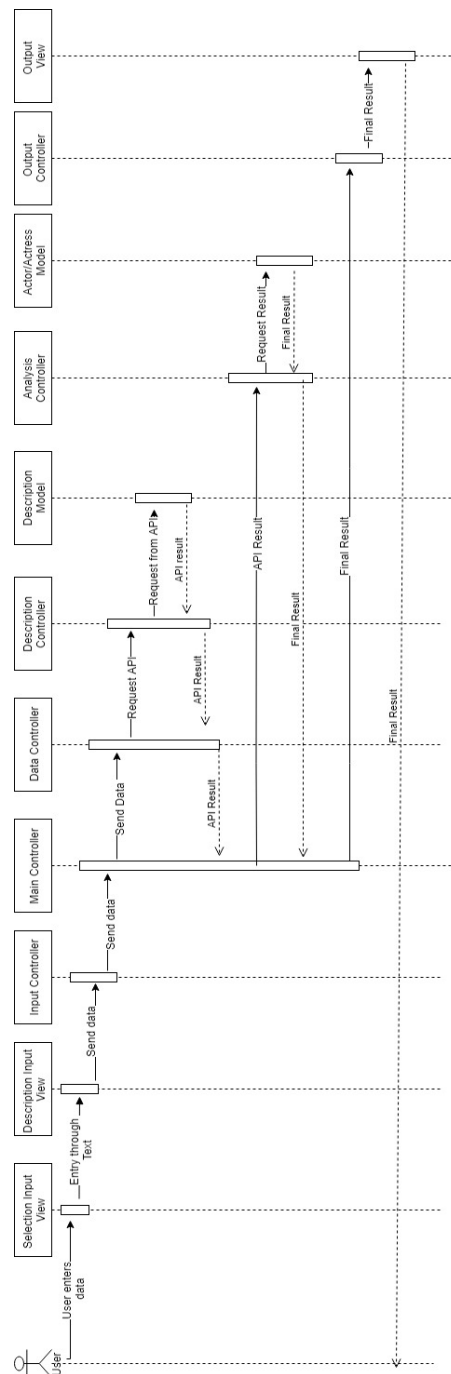


Figure 10: User wants to Search with description input

*Note: Sequence diagrams are the same of Audio and Image input.

3.2 Sequence Diagram 2

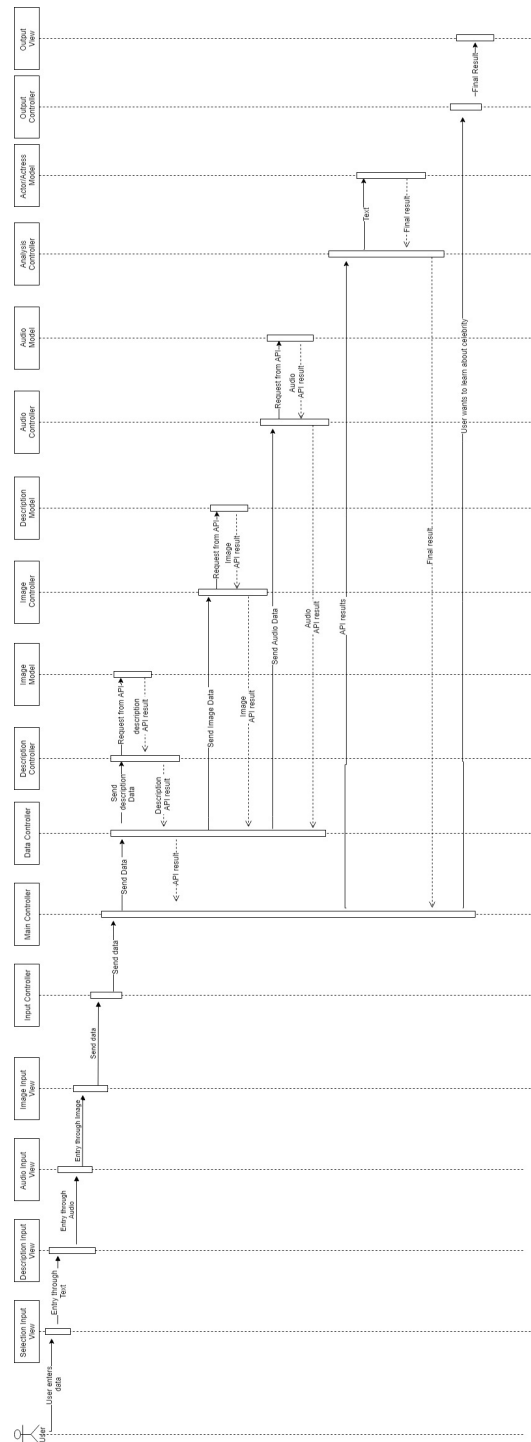


Figure 11: User wants to Search with multiple inputs

*Note: Sequence Diagrams are similar when the user chooses two input instead of three.

3.3 Sequence Diagram 3

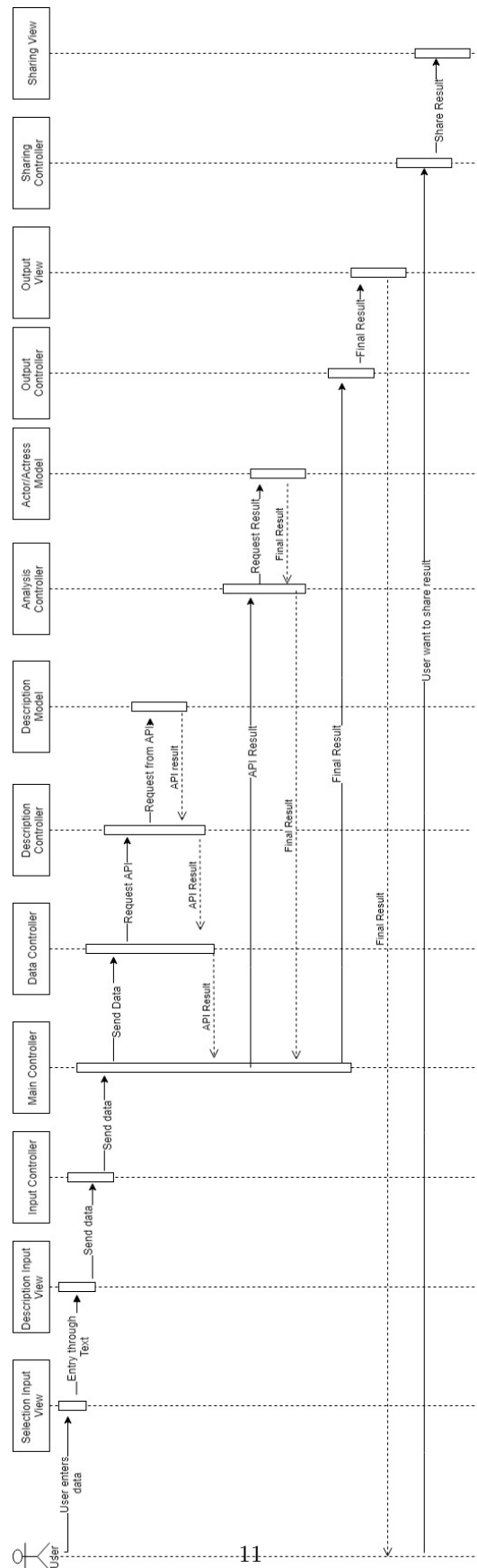


Figure 12: User wants to share result

3.4 Sequence Diagram 4

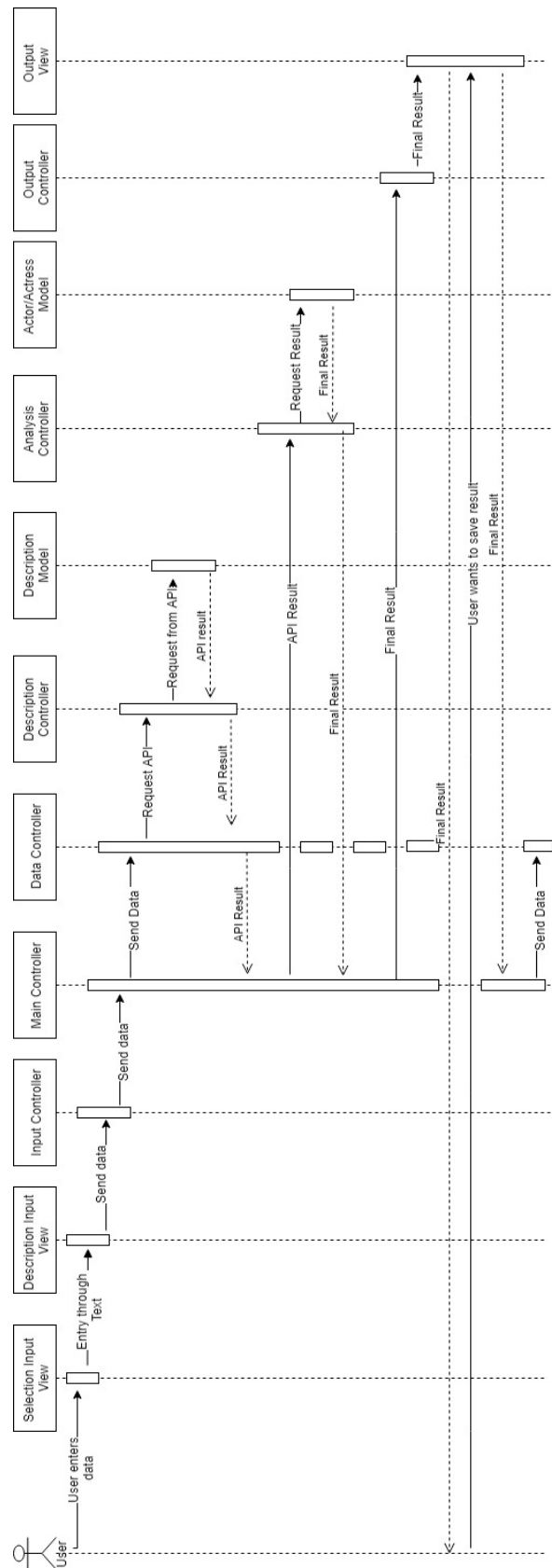


Figure 13: User wants to save result

3.5 Sequence Diagram 5

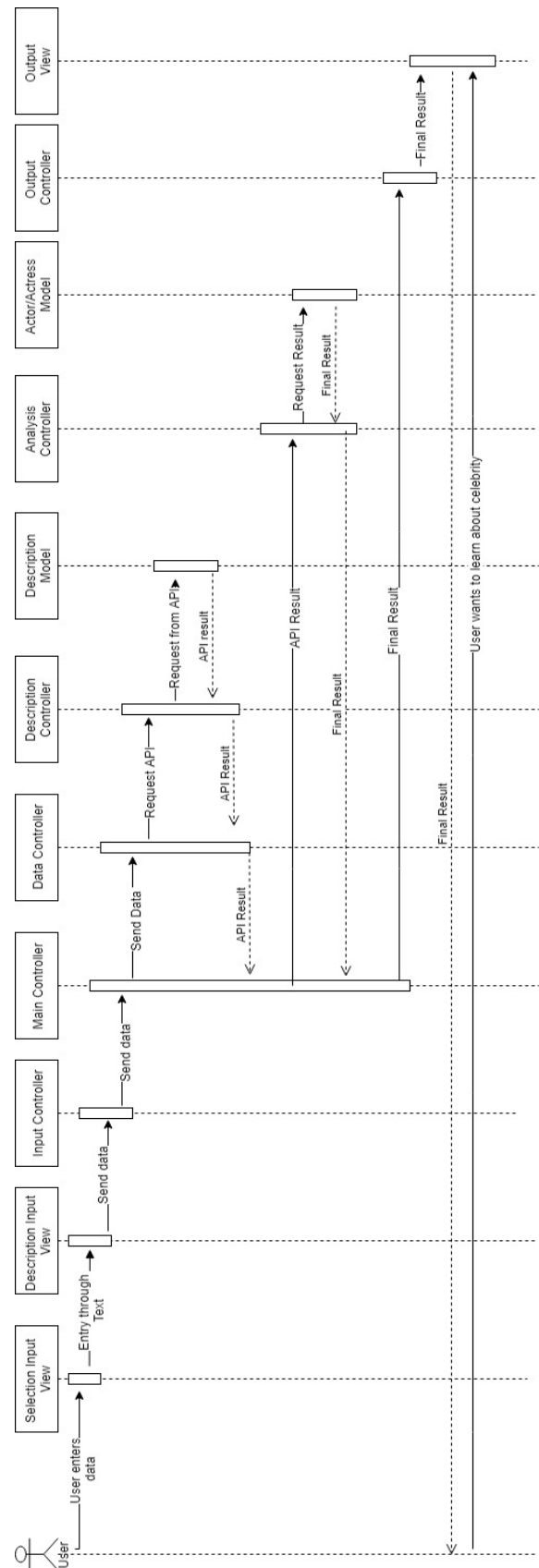
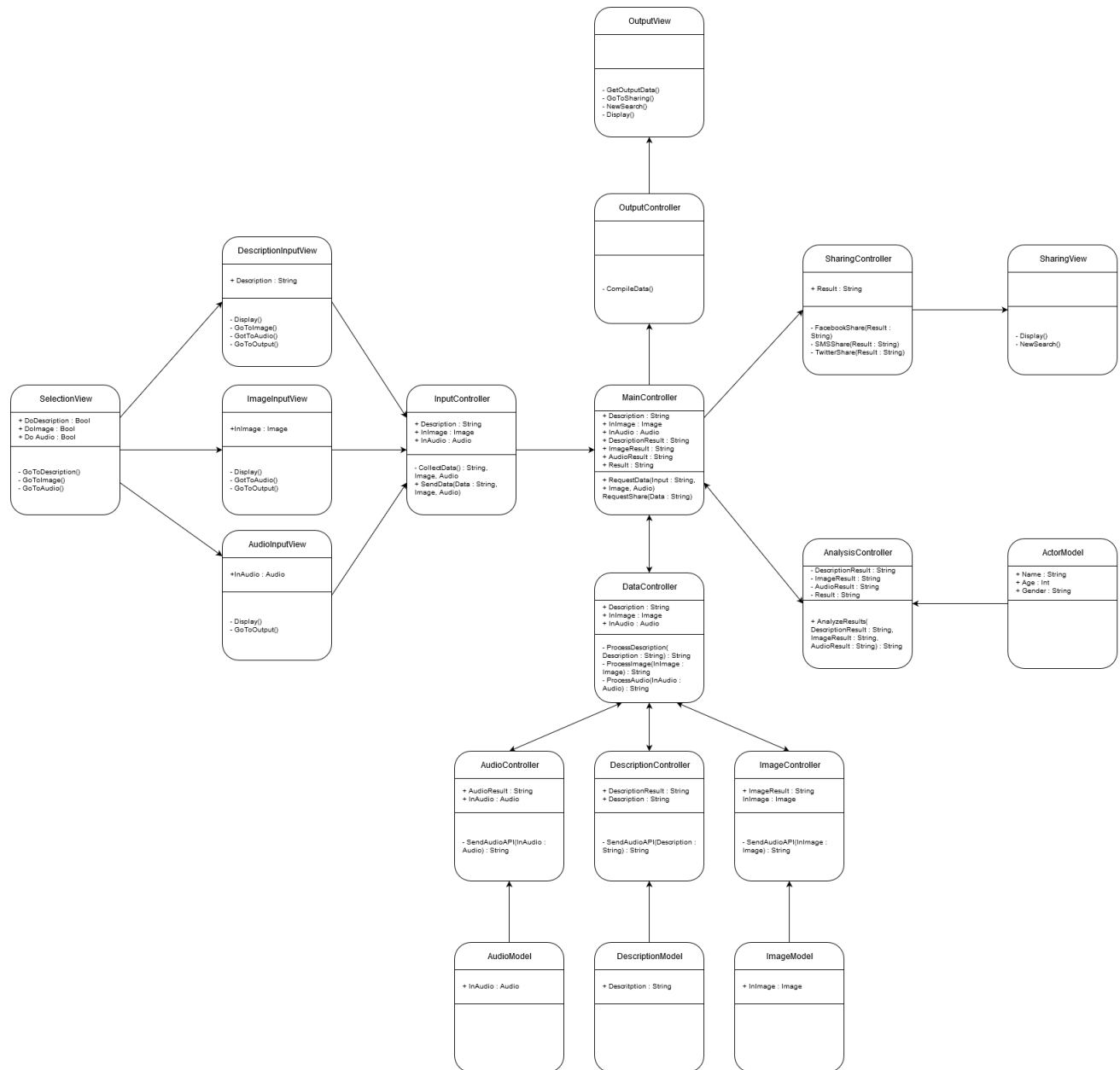


Figure 14: User wants to learn more about celebrity

4 Detailed Class Diagram



A Division of Labour

Name	Contribution	Signature
Alex Nguyen	Section 4	
Junni Pan	Section 2	
Sullivan Stobo	Section 4	
Tommy Tran	Section 1 and 2	
Shalmi Patel	Section 3	