# Deliverable #3 Template

SE 3A04: Software Design II – Large System Design

## 1 Introduction

### 1.1 Purpose

This document provides further information about the Gaim wildlife identification system architecture, including state chart diagrams, sequence diagrams, and a detailed class diagram. This document is intended for internal Gaim stakeholders, including but not limited to, project managers, developers, domain experts, and Gaim team members/investors. Gaim Deliverable 1 and 2 should be read prior, and technical knowledge may be beneficial in better understanding the contents of the document.

### 1.2 System Description

An overview of the system description can be found in deliverable 2. This document acts as an extension of deliverable 2, providing more context in form of state charts, sequence diagrams, and a detailed class diagram.

### 1.3 Overview

This document is organized by chart/diagram type. Section 2 contains relevant state chart diagrams, section 3 contains relevant sequence diagrams, and section 4 provides a detailed UML diagram of the system
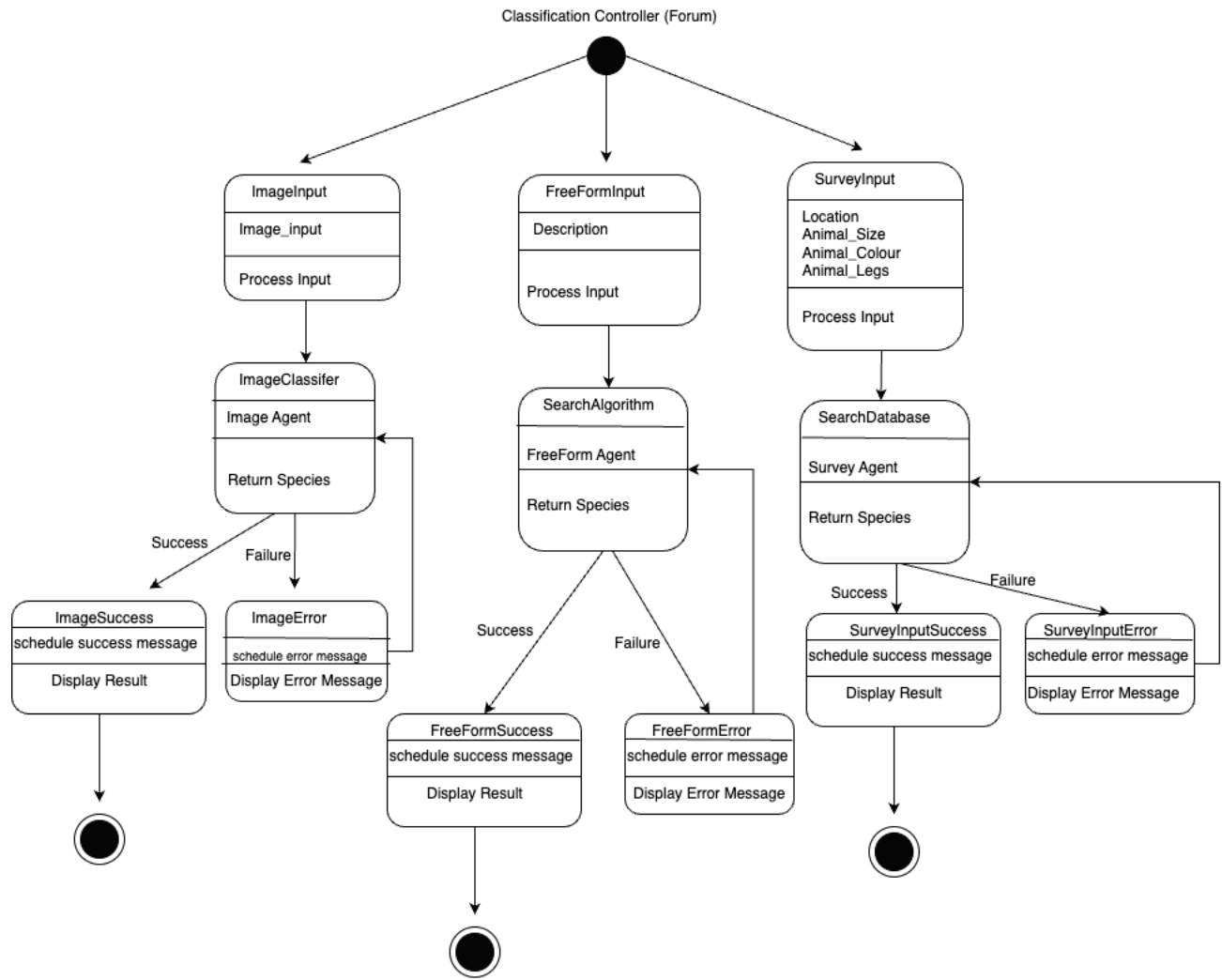
# 2 State Charts for Controller Classes

Classification Controller (Forum)

**ImageInput**

Image_input

Process Input

**FreeFormInput**

Description

Process Input

**SurveyInput**

Location
Animal_Size
Animal_Colour
Animal_Legs

Process Input

**ImageClassifer**

Image Agent

Return Species

**SearchAlgorithm**

FreeForm Agent

Return Species

**SearchDatabase**

Survey Agent

Return Species

Success

Failure

Success

Failure

Success

Failure

**ImageSuccess**

schedule success message

Display Result

**ImageError**

schedule error message

Display Error Message

**FreeFormSuccess**

schedule success message

Display Result

**FreeFormError**

schedule error message

Display Error Message

**SurveyInputSuccess**

schedule success message

Display Result

**SurveyInputError**

schedule error message

Display Error Message

Figure 2.1: Forum Controller State Chart Diagram

Generate Report Controller

reportGeneration

UserName
Location
ClassificationResult

Generate Report

DisplayReport

Report

Save to Account

SaveReport
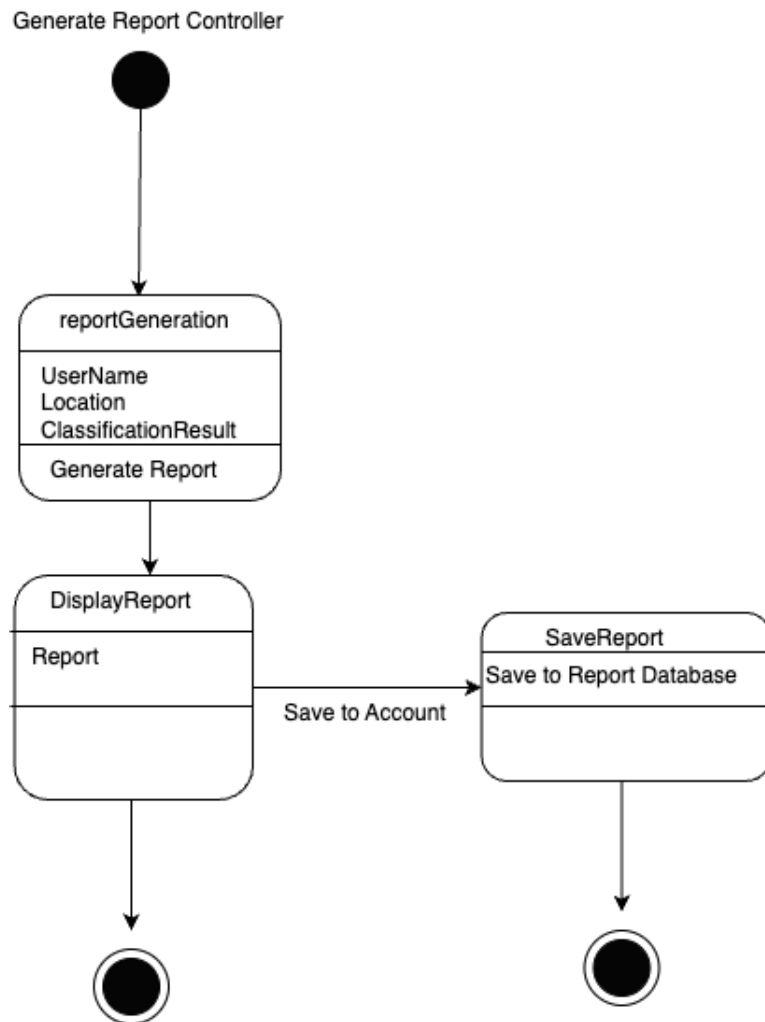
Save to Report Database

Figure 2.2: Generate Report Controller State Chart Diagram
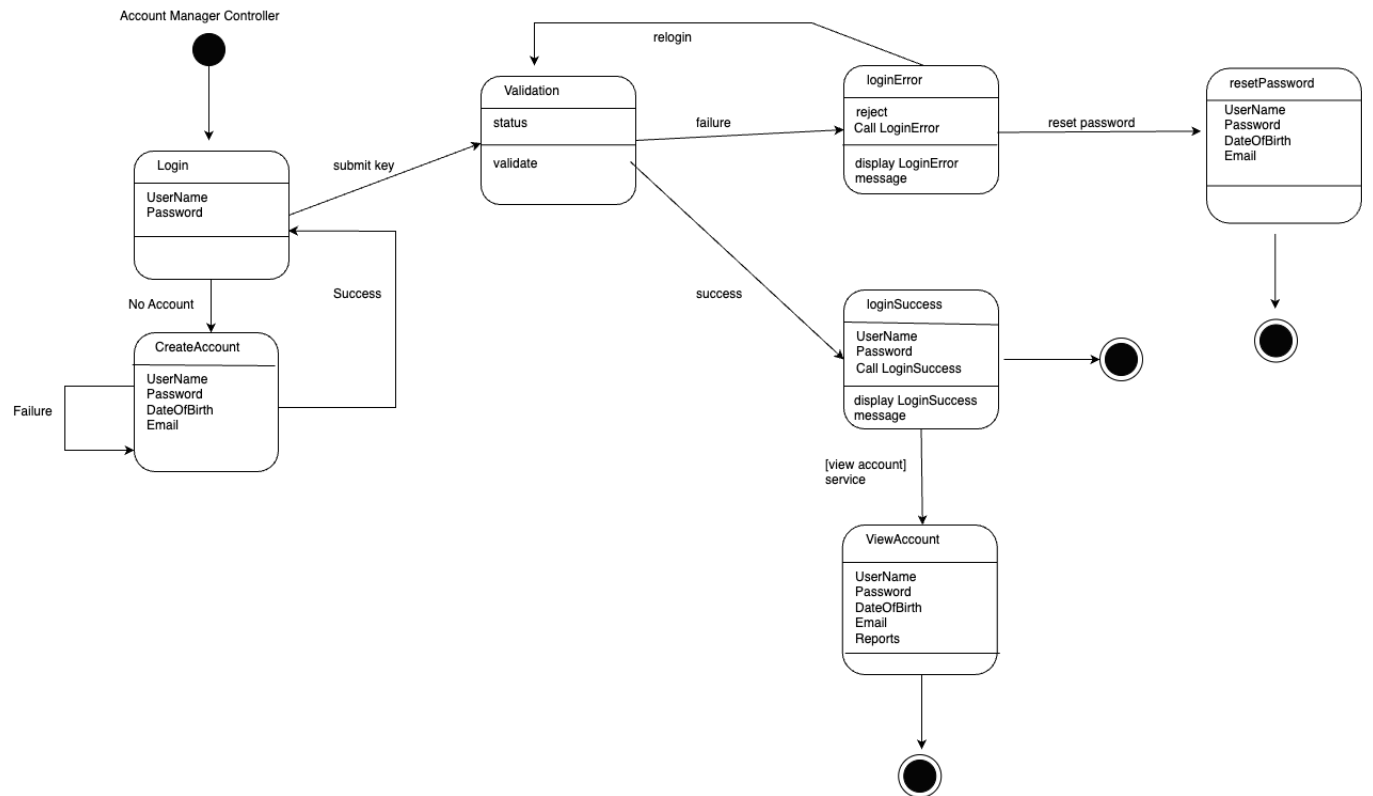
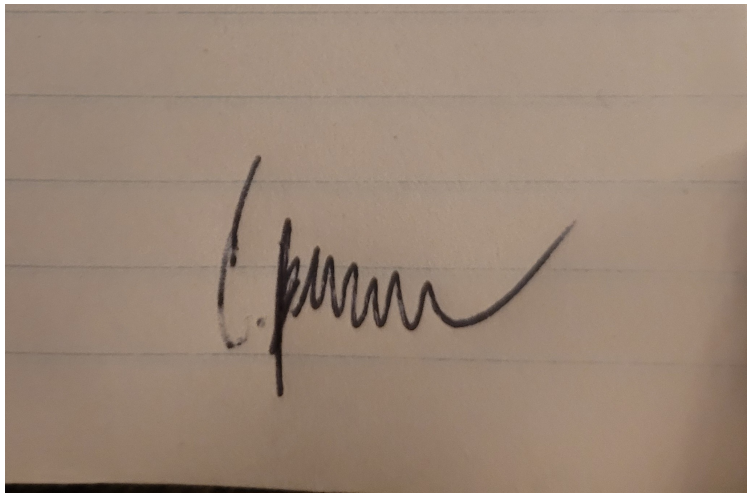Figure 2.3: Account Manager Controller State Chart Diagram

# 3 Sequence Diagrams

This section should provide a sequence diagram for each use case of your application.

# 4 Detailed Class Diagram

This section should provide a detailed class diagram for your application.

# A Division of Labour
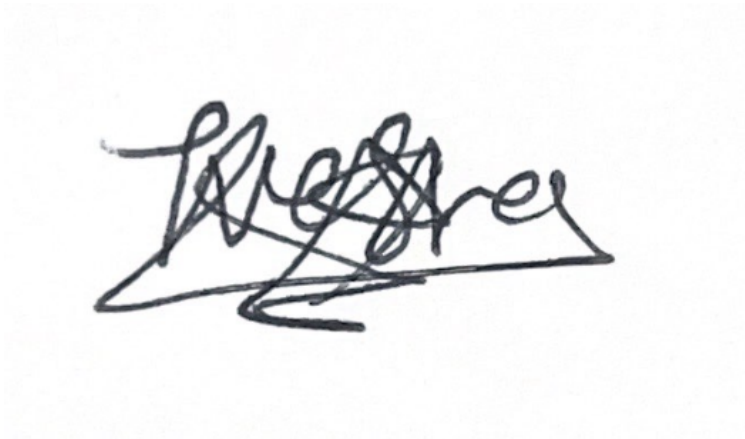
**Cass Braun**



- text
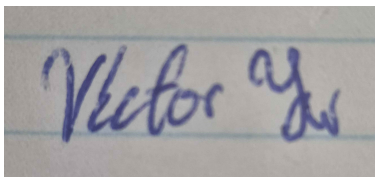
**Nehad Shikh Trab**

- text

**Savvy Liu**

- text

**Tvesha Shah**

- Section 2 -
- Section 2 -
- Section 2 -
- Section 1.1 Purpose
- Section 1.2 System Description
- Section 1.3 Overview
- Managed github set up and assisted with formatting

**Victor Yu**

- text