

Project: SketchApp
Team No.: 11
Class: CSE 3310.003 - Fall 2020 Module: System Requirements Analysis (SRA) Deliverable: SRA Document

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Revision History

<i>Version number</i>	<i>Date</i>	<i>Originator</i>	<i>Reason for change</i>	<i>High level description of changes</i>
1.0	10/06/2020	David Rademacher	Initial draft	

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1. Introduction and Project Overview

[README.md]

2. Objectives

2.1 BUSINESS OBJECTIVES

2.2 SYSTEM OBJECTIVES

3. Project Context Diagram

4. Systems Requirements

4.0 REQUIREMENTS OVERVIEW

The following requirement forms provide details about how each specific area of the application will accomplish its objective. The forms are grouped by areas of the application in which they operate. These subsystems are: Login, Using the Canvas, Drawing Categorization, Comments, Voting, and Reporting, Database Search, Following and Filtering, and Profile.

4.1 “LOGIN” REQUIREMENTS

Requirement title	
Sequence No.	
Short description	
Description	
Preconditions	
Postconditions	
Other attributes	

4.2 “USING THE CANVAS” REQUIREMENTS

Requirement title	Using the Canvas
Sequence No.	1
Short description	How the user interacts with the canvas interface and submits a drawing
Description	The Canvas interface will provide tools for the user to create a Drawing. The user will be able to select which brush and color to use and create strokes in the provided region. The user can reset his/her Drawing or submit it to the system for categorization.
Preconditions	The user must be logged in to a valid account before creating a Drawing.
Postconditions	The user must have a connection to the internet to submit a Drawing. The Drawing will then be categorized and stored in the database.
Other attributes	N/A

4.3 “DRAWING CATEGORIZATION” REQUIREMENTS

Requirement title	
Sequence No.	
Short description	
Description	
Preconditions	
Postconditions	
Other attributes	

4.4 “COMMENTS, VOTING, AND REPORTING” REQUIREMENTS

Requirement title	
Sequence No.	
Short description	
Description	
Preconditions	
Postconditions	
Other attributes	

4.5 “DATABASE SEARCH” REQUIREMENTS

Requirement title	Database Search
Sequence No.	1
Short description	How the user can search for information in the database
Description	The server-side database will store all user Drawings and Profile information. Drawings can be queried by category or by the Profile that created them. Profiles can be found by username or an optionally associated personal name.
Preconditions	The user must have an internet connection to search the database.
Postconditions	Database search results will be sent to the client for use in filtering the user’s feed or displaying search results from the Profile tab.
Other attributes	N/A

4.6 “FOLLOWING AND FILTERING” REQUIREMENTS

Requirement title	
Sequence No.	
Short description	
Description	
Preconditions	
Postconditions	
Other attributes	

4.7 “PROFILE” REQUIREMENTS

Requirement title	
Sequence No.	
Short description	
Description	
Preconditions	
Postconditions	
Other attributes	

5. Software Processes and Infrastructure

5.1 HARDWARE AND INFRASTRUCTURE

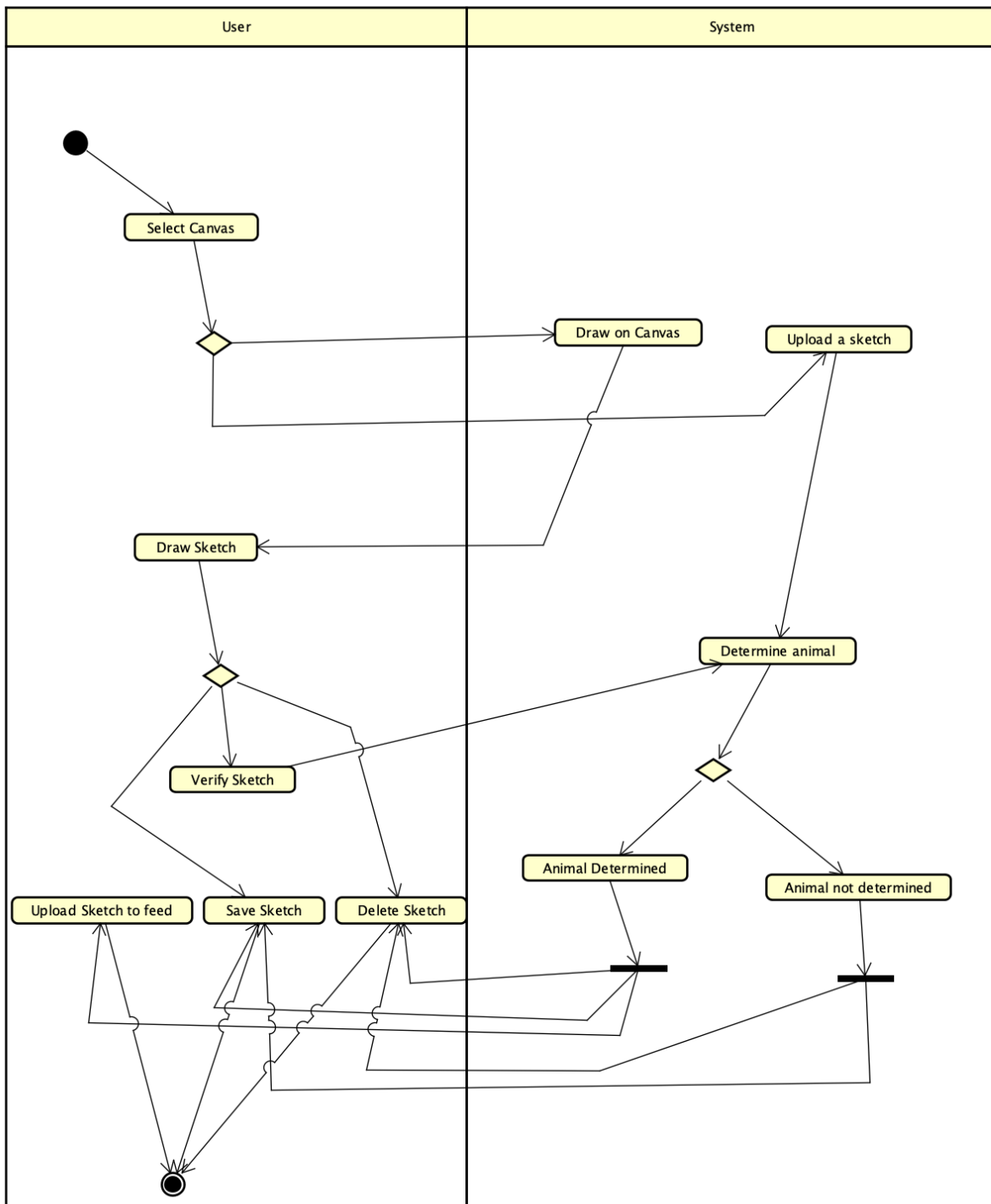
{Any hardware and infrastructure types/issues such as which version of android and other related material go here}

5.2 CONCEPTUAL DATA MODEL - DATABASE

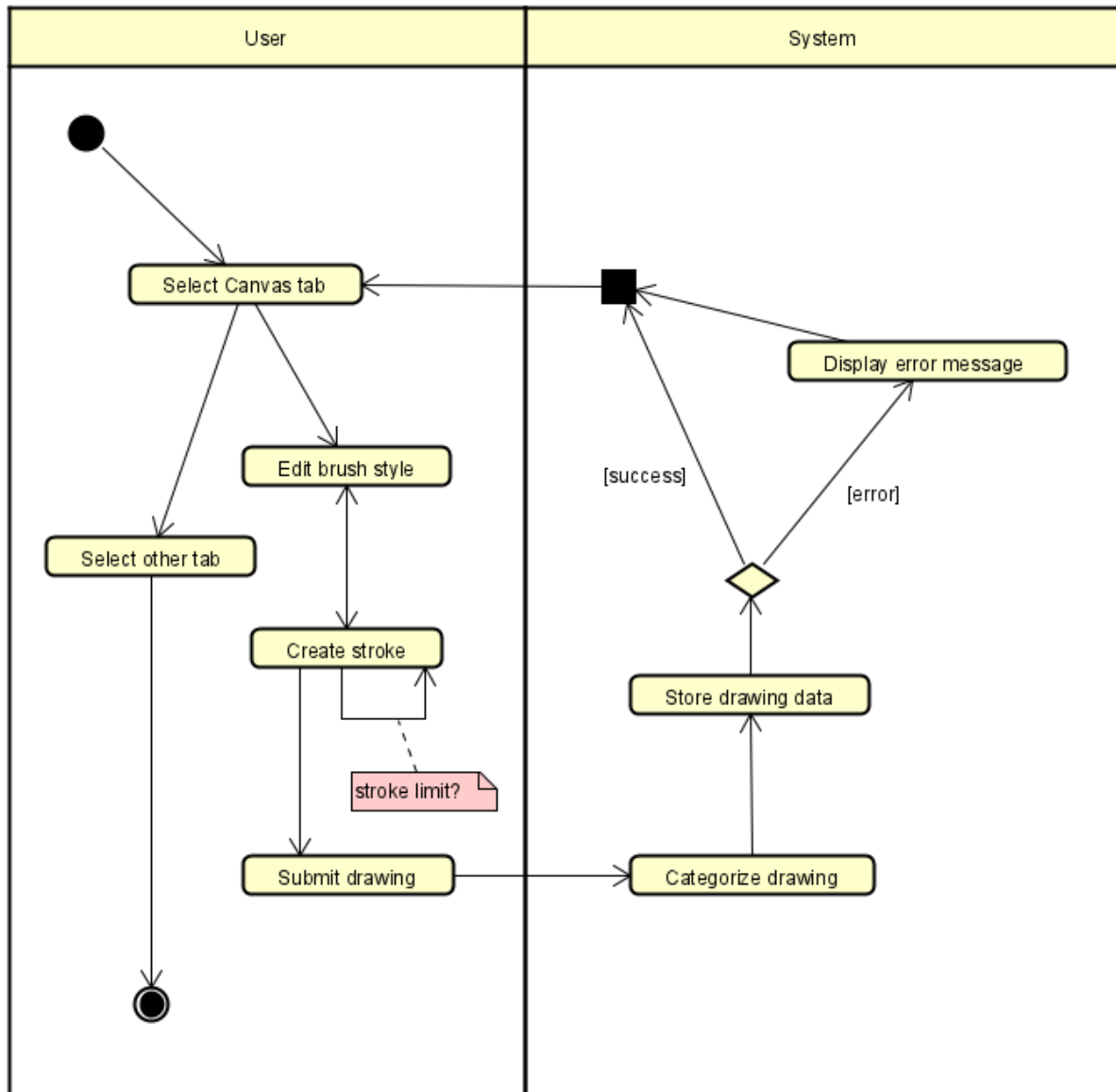
{All database material goes here, if any}

5.3 UML DIAGRAMS

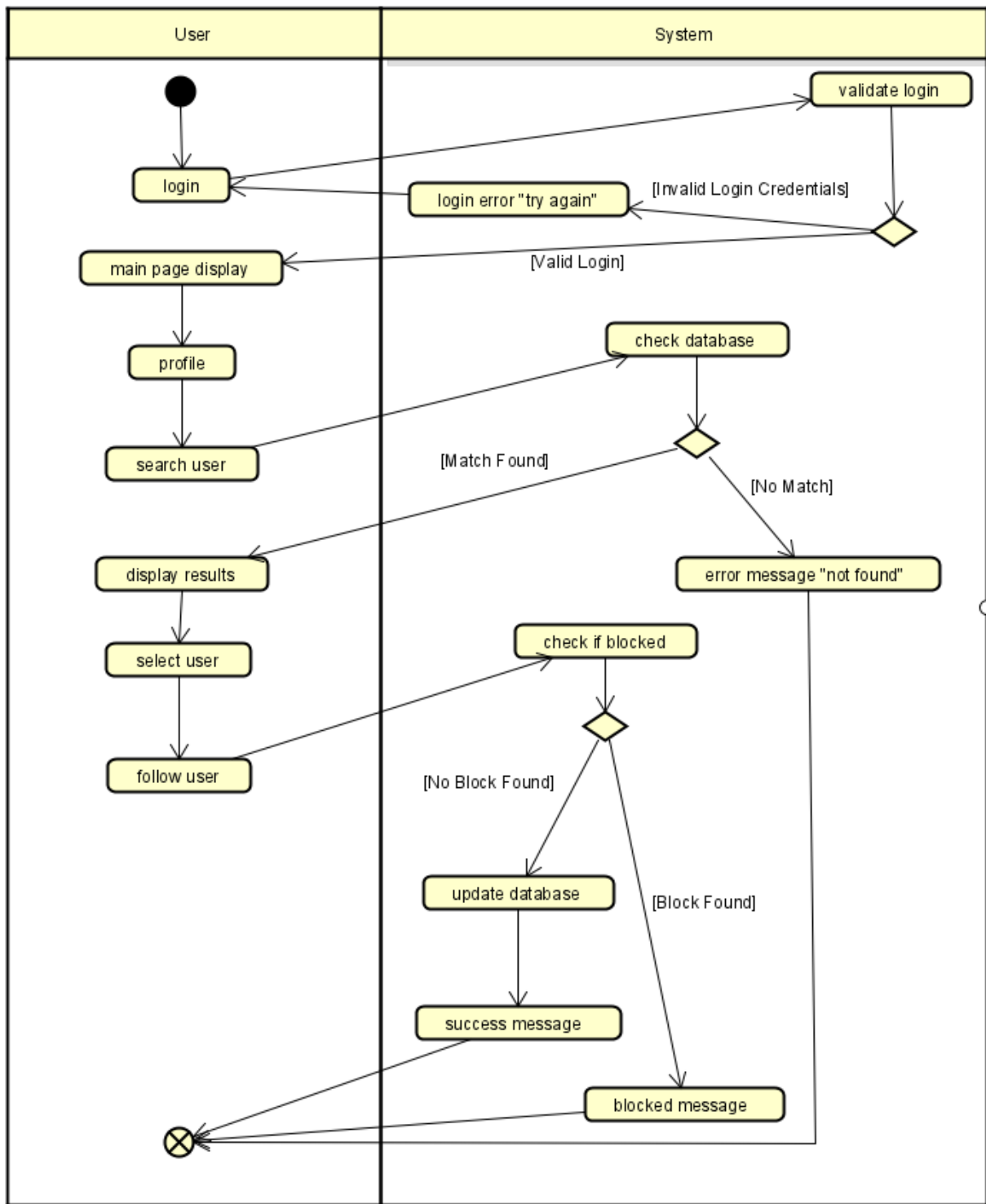
Activity Diagram: Drawing



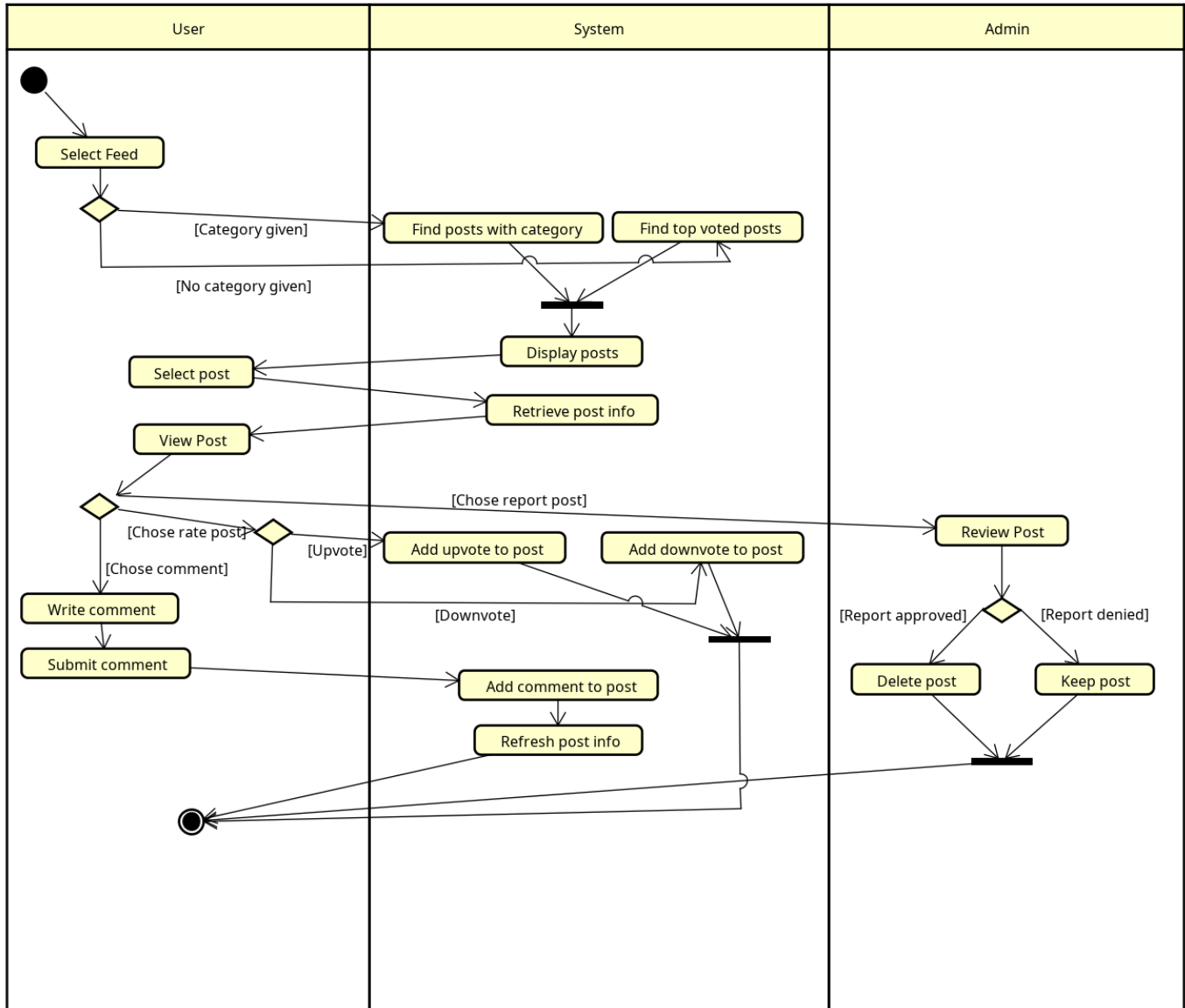
Activity Diagram: Canvas



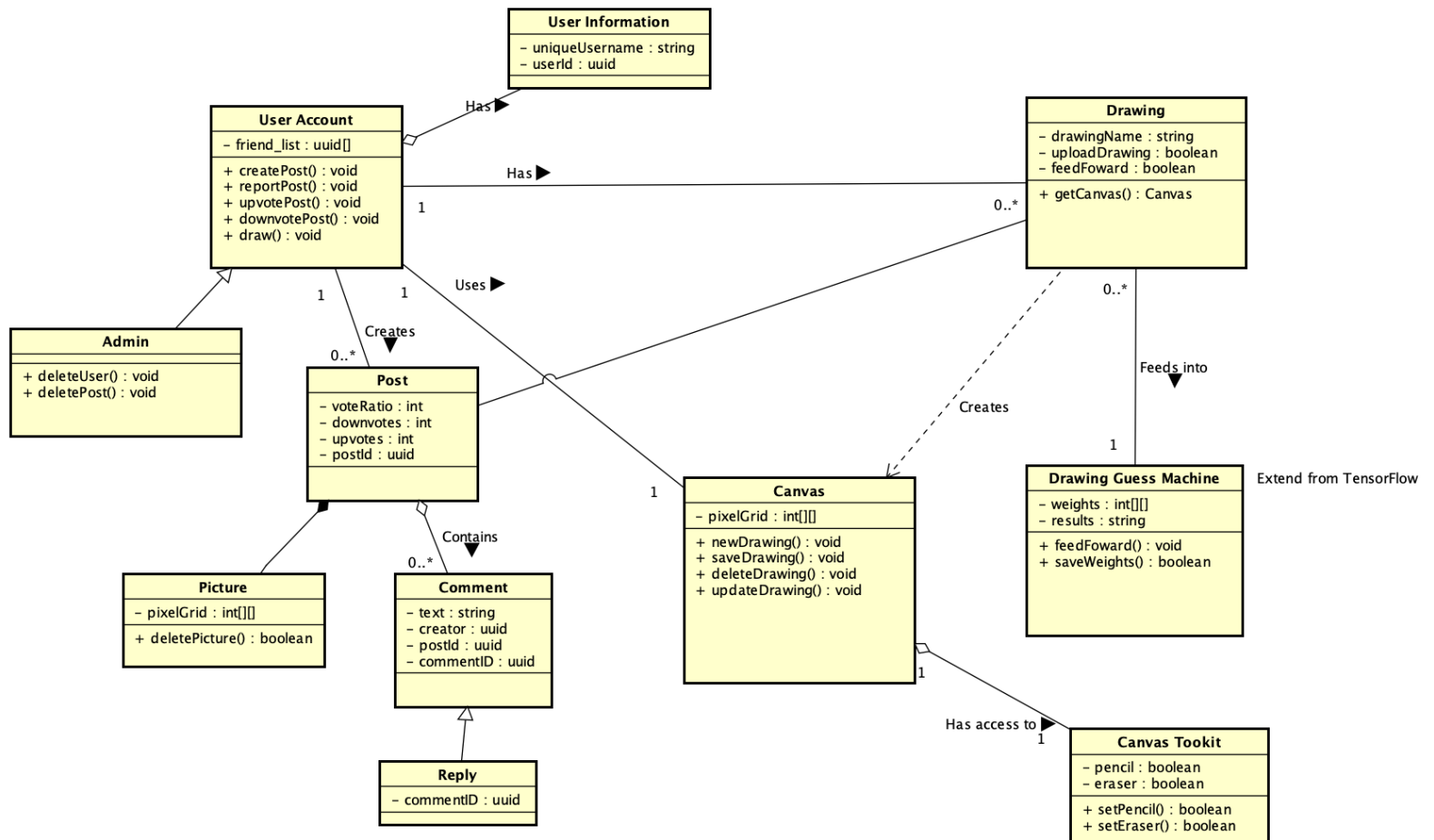
Activity Diagram: Login



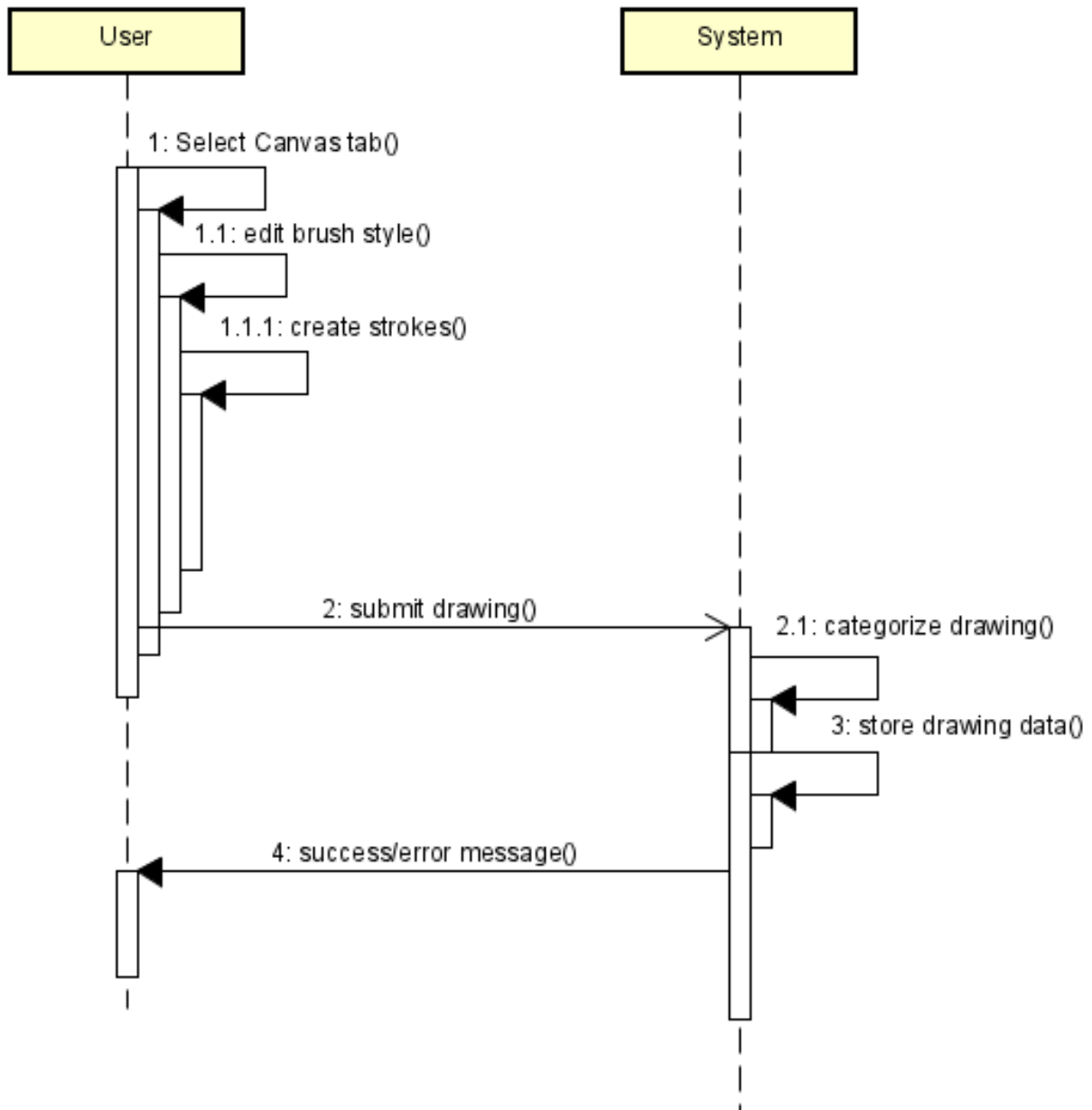
Activity Diagram: User Feed



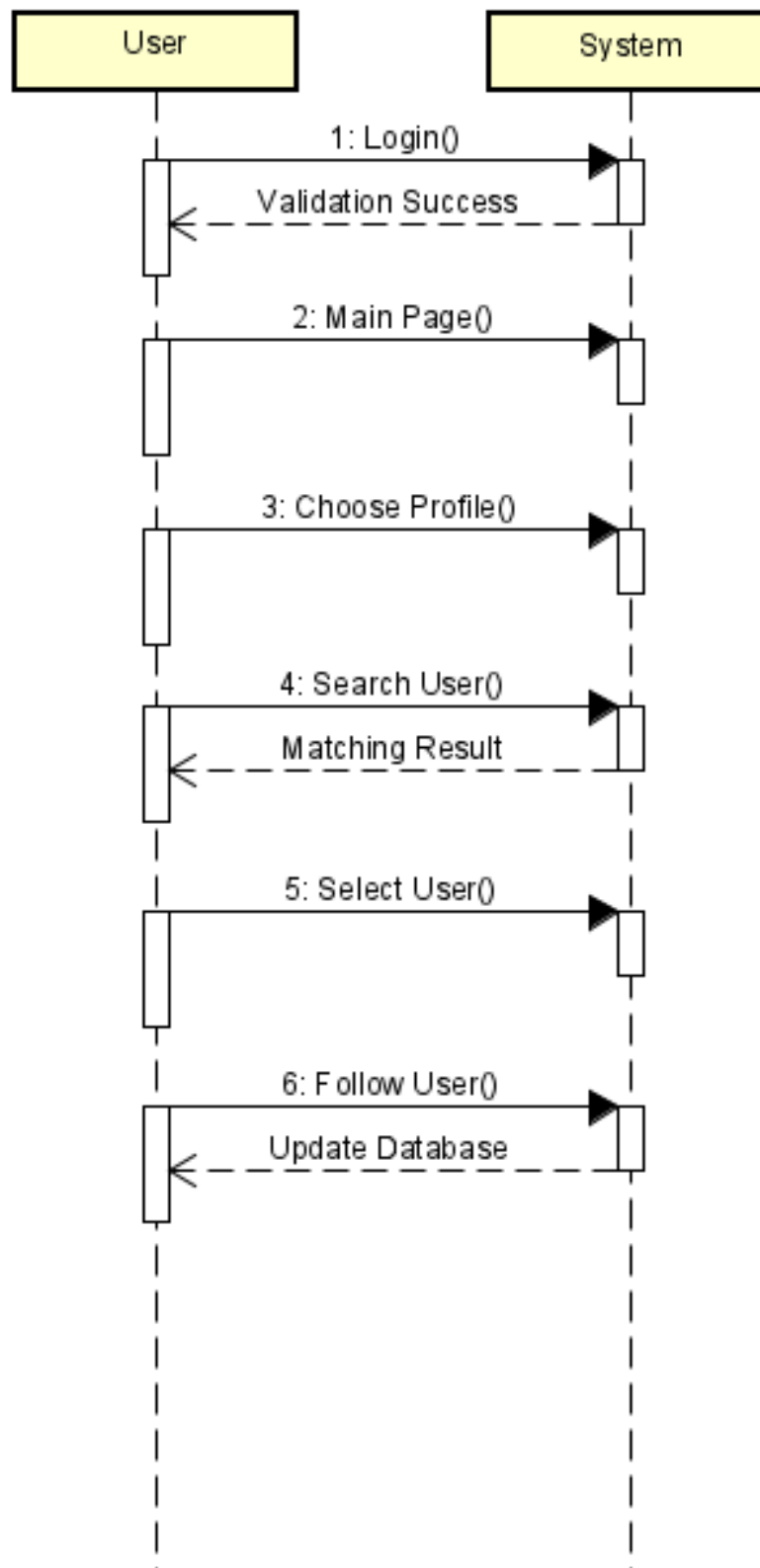
Class Diagram



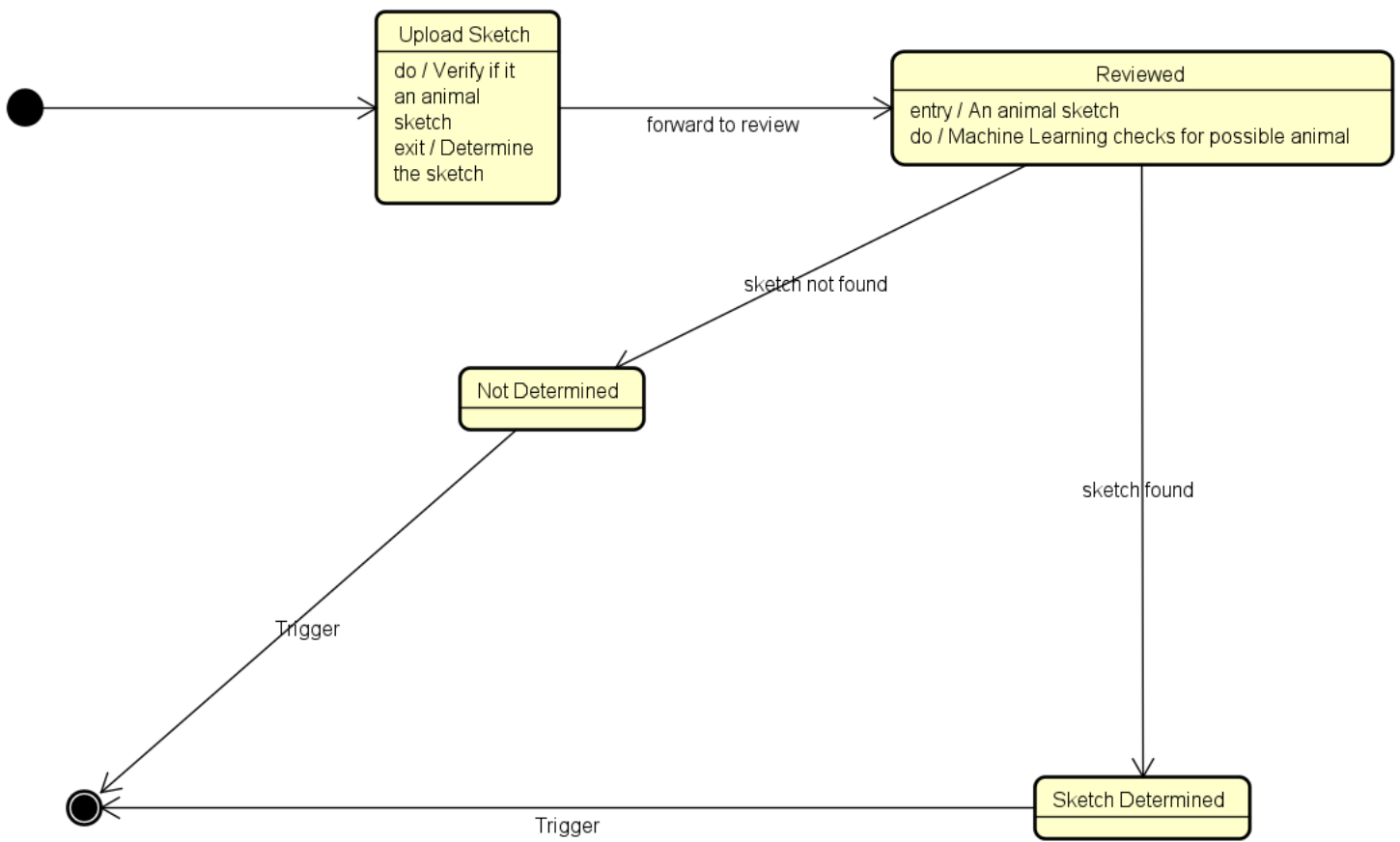
Sequence Diagram: Canvas



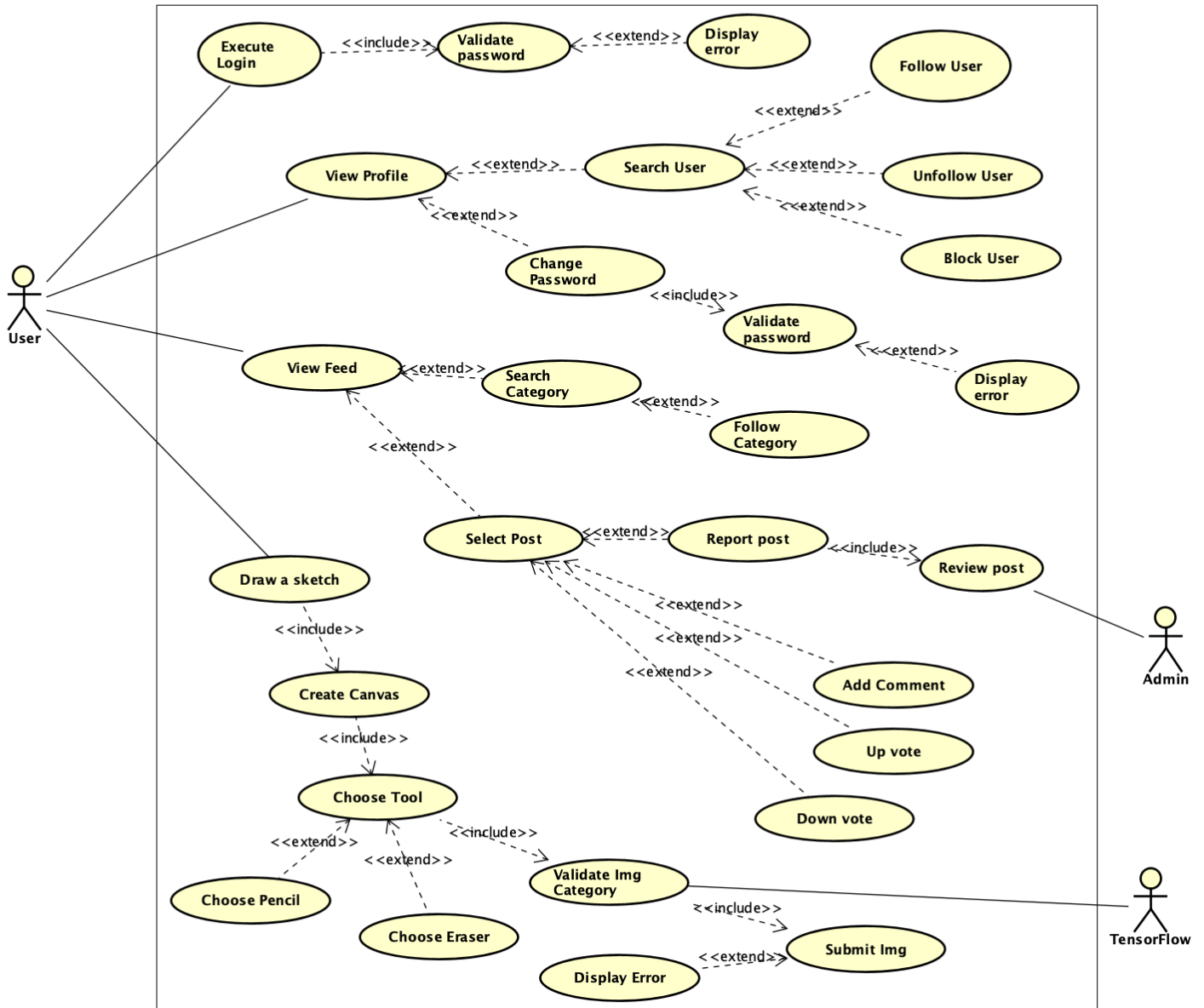
Sequence Diagram: Login



State Machine Diagram



Use Case Diagram



5.4 SCREEN SHOTS

None available at this time.

5.5 TEST PLAN

A test plan will be provided at a later stage of the project.

6. Assumptions and Constraints

6.1 ASSUMPTIONS

The following is a list of assumptions:

- assumption
-

6.2 CONSTRAINTS

The following is a list of constraints:

- constraint
-

6.3 OUT OF SCOPE MATERIAL

The following is a list of “out of scope” material:

- out of scope material
-

7. Delivery and Schedule

{List all tasks/milestones from start of the project to the end with specific dates for both Anticipated Start & End Dates}

Task/Milestone Description	Anticipated Start Date	Anticipated End Date	Status	Comments
UML diagrams	9/1/2020	10/1/2020	Complete	
SRA document (Includes project objectives, Requirements and UML diagrams)	10/6/2020	11/1/2020	In Progress	Deliverable will be the SRA document. All stakeholders agree on the content of the SRA by signing in section 8. Increment 2 Deliverable

8. Stakeholder Approval Form

Stakeholder Name	Stakeholder Role	Stakeholder Comments	Stakeholder Approval Signature and Date
Rodrigo Augusto	Development Mgr		
Prajwal Gautam	Project Assistant		
Gabriel de Sa	Developer		
Lucas Streanga	Developer		
Luke Brown	Developer		
Saugat Pandey	Developer		
David Rademacher	Developer		

Appendix:

NONE