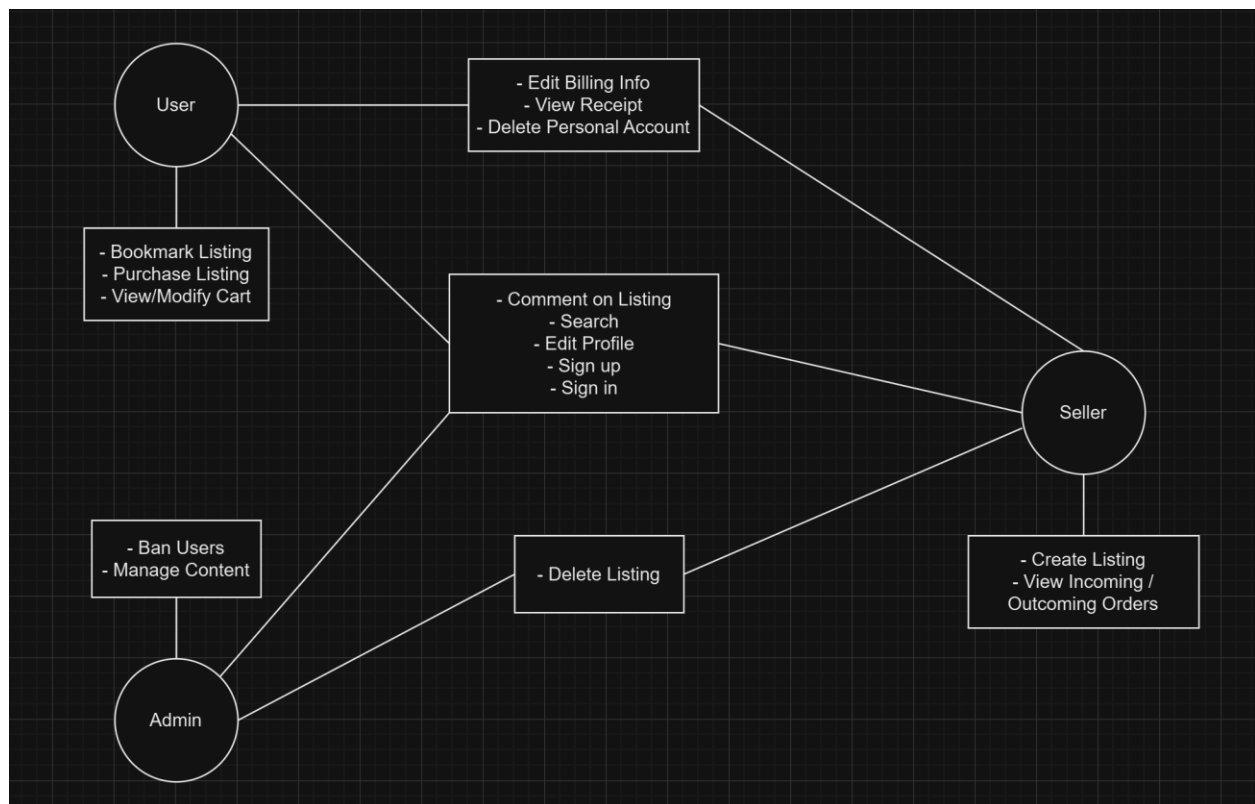# Design Document

Tbay

10/31/2024

Version 1

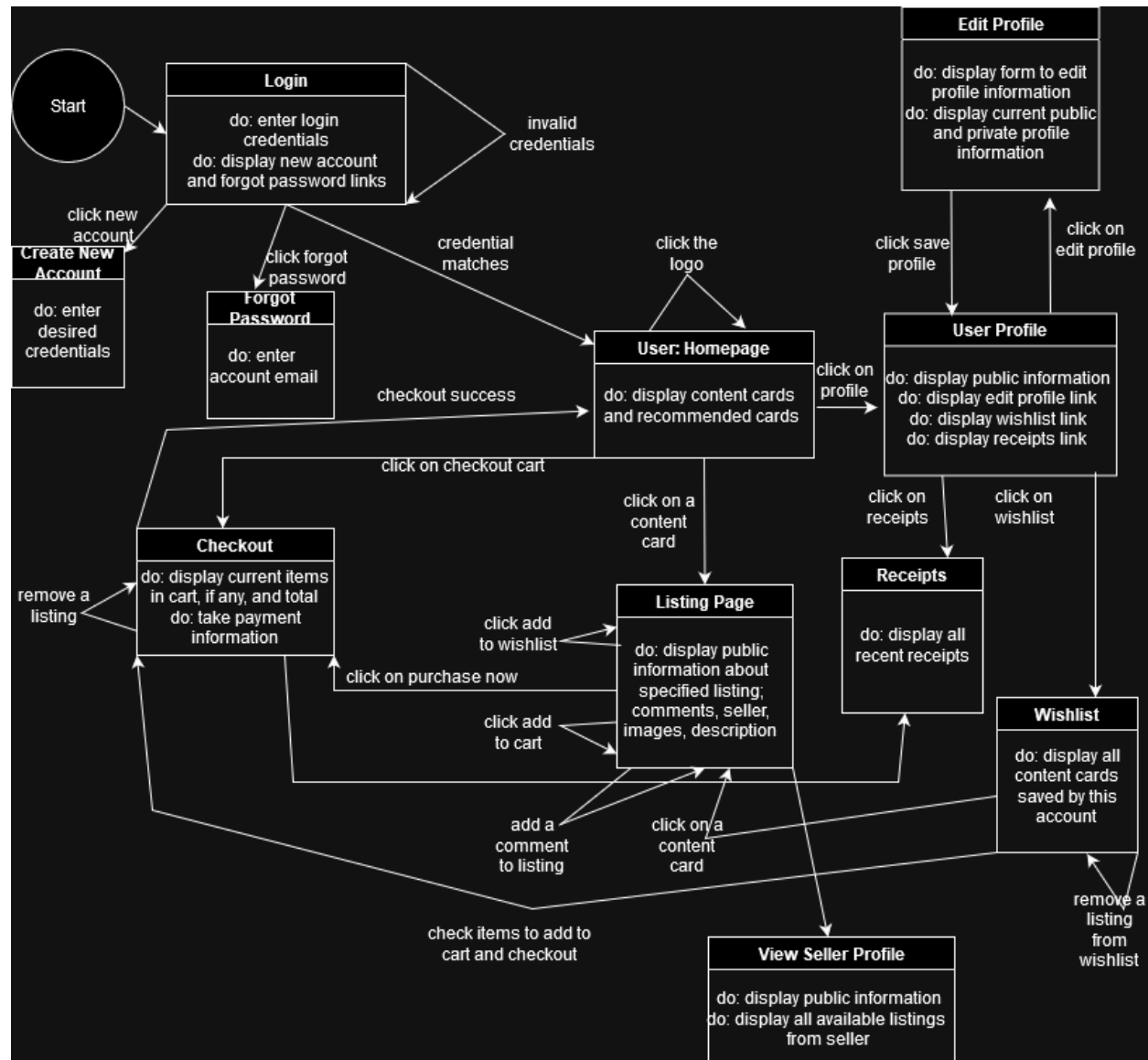Sarah Barber, Juliet Bellion, Camden Tuttle

1. Project Overview

The goal of the Tbay web application is to connect users to a marketplace of used textbooks they can peruse through an interactive method of searching, bookmarking, bidding on, and purchasing textbooks by using the search bar function to find relevant listings that they can scroll through. The Tbay application will also allow providers to post listings that will be shown to users who are browsing. All the while admins can monitor and manage content to ensure that everything follows community standards.
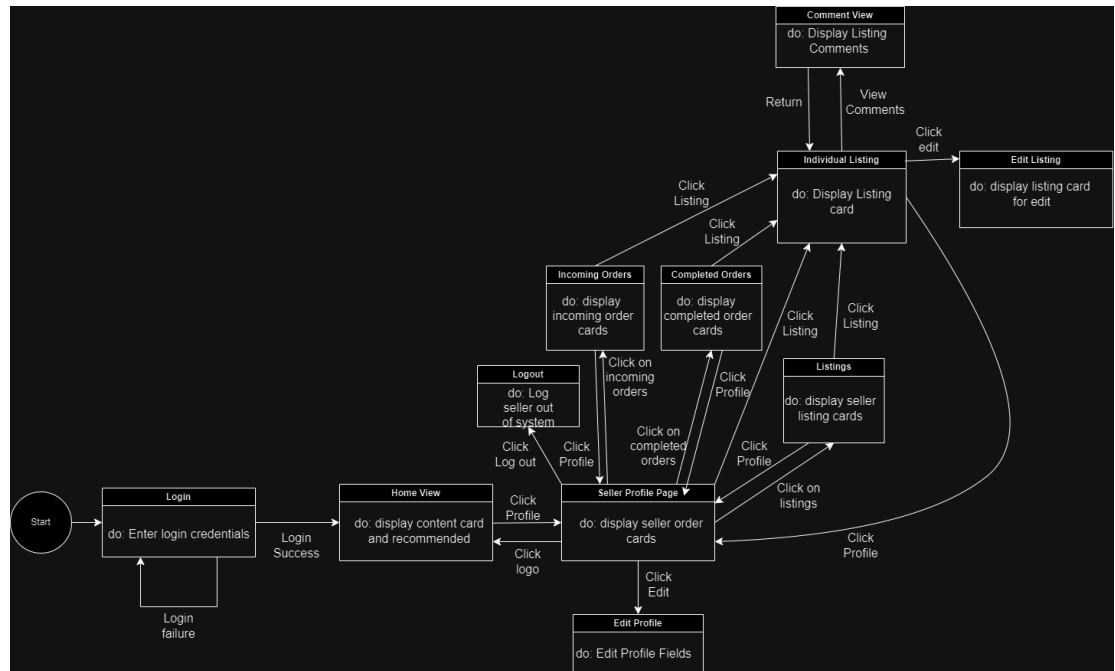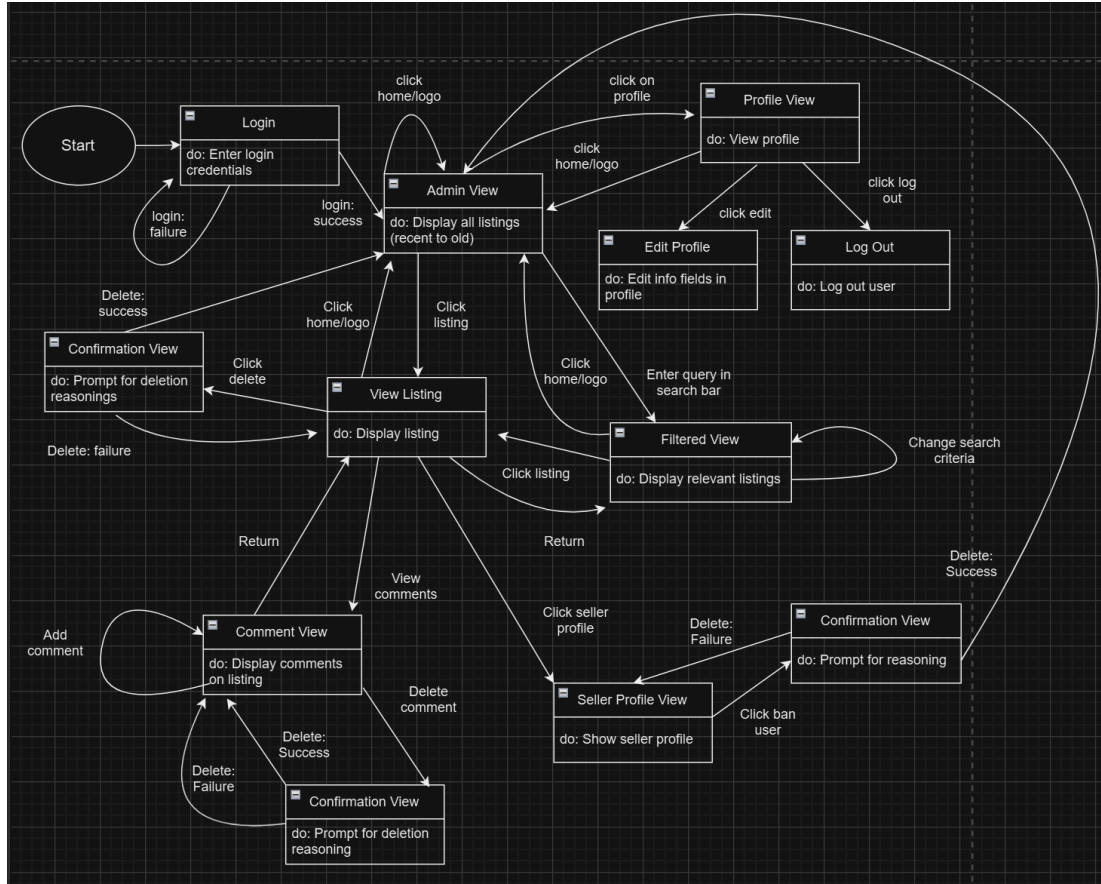
2. Use-Case Model

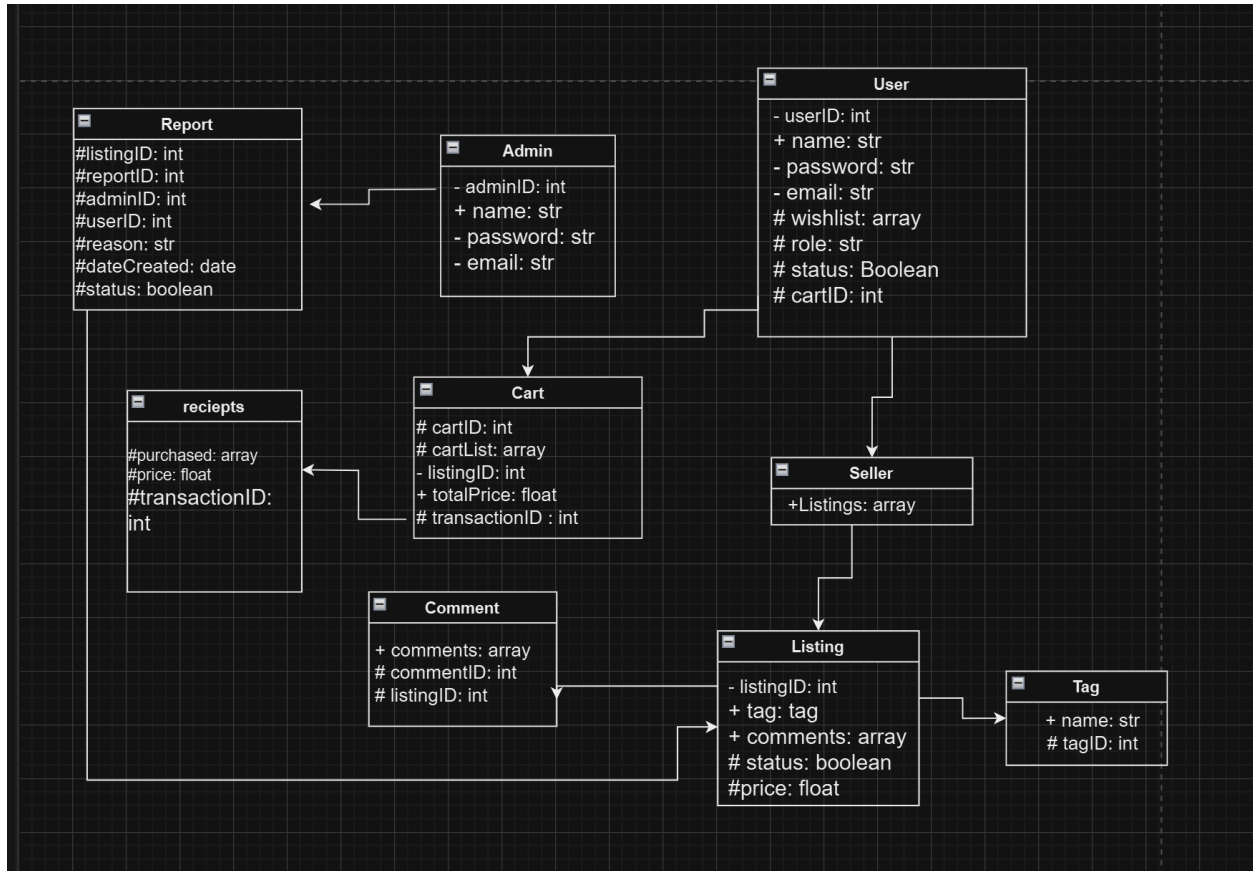3. State Machine Diagrams
   a. User- Juliet Bellion

b. Seller- Camden Tuttle

c. Admin- Sarah Barber

4. Database Schema

User
- userID: int
+ name: str
- password: str
- email: str
wishlist: array
role: str
status: Boolean
cartID: int

Report
#listingID: int
#reportID: int
#adminID: int
#userID: int
#reason: str
#dateCreated: date
#status: boolean

Admin
- adminID: int
+ name: str
- password: str
- email: str

reciepts
#purchased: array
#price: float
#transactionID: int

Cart
cartID: int
cartList: array
- listingID: int
+ totalPrice: float
# transactionID : int

Seller
+Listings: array

Comment
+ comments: array
# commentID: int
# listingID: int

Listing
- listingID: int
+ tag: tag
+ comments: array
# status: boolean
#price: float

Tag
+ name: str
# tagID: int

5. Software Architecture – MVC