TRƯỜNG ĐẠI HỌC FPT

Artworks Hub

Software Design Document

– Ho Chi Minh City, Jan 2024 –

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I. Record of Changes

Date	A* M, D	In charge	Change Description
28/Jan	A	HuyTTM	Created Document
28/Jan	A	HuyTTM	Added Class diagram
29/Jan	A	HuyTTM	Added Manage Wallet function
29/Jan	A	AnhLq	Added Class Diagram

*A - Added M - Modified D - Deleted

II. Software Design Document

1. System Design

1.1 System Architecture

1.2 Package Diagram

2. Database Design

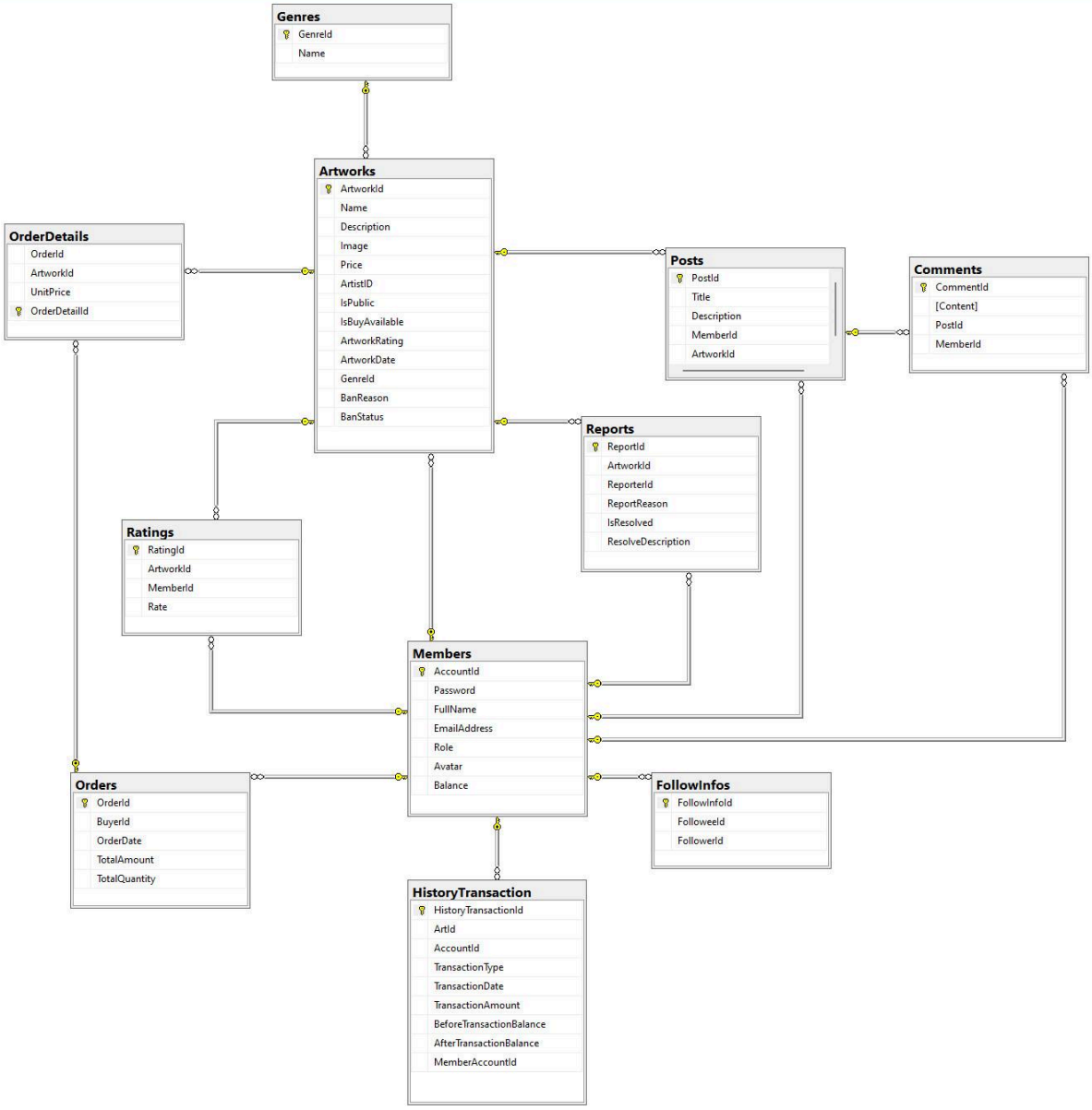


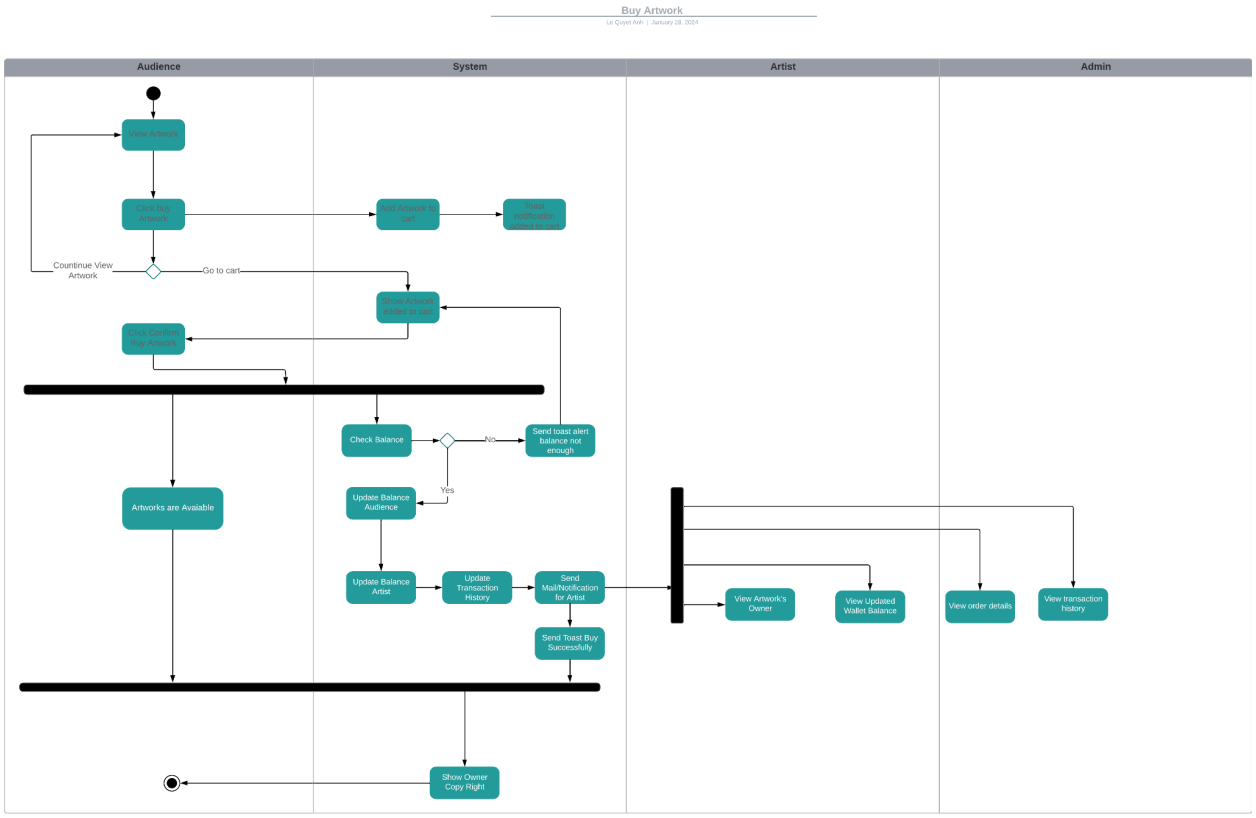
Table Descriptions

No	Table	Description
1	Card	• Stores credit card information. • Primary key: Card Number.
2	Member	• Stores member information, including their wallet.

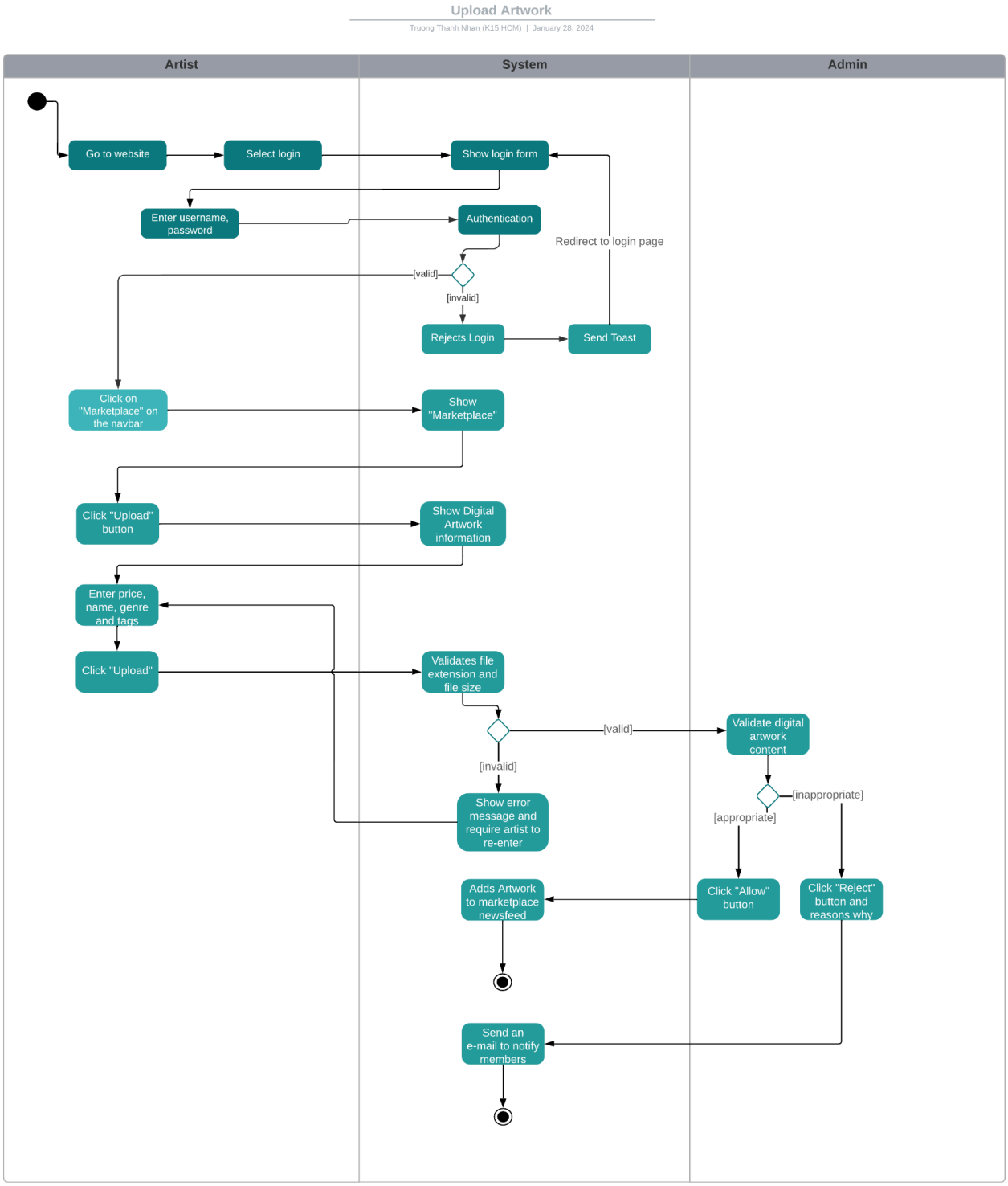
		• Primary key: Member Id.
3	Wallet	• Stores member wallet information, including balance. • Primary key: Wallet Id. • Foreign key: Member Id (references Member table).
4	Artist	• Stores artist information, including nickname. • Primary key: Artist Id.
5	Post	• Stores posts created by artists. • Primary key: Post Id. • Foreign key: Artist Id (references Artist table).
6	Comment	• Stores comments on posts. • Primary key: Comment Id. • Foreign keys: Post Id (references Post table), Audience Id (references Audience table).
7	Transaction	• Stores wallet transaction records. • Primary key: Transaction Id. Foreign key: • Wallet Id (references Wallet table).
8	Pre-Order	• Stores pre-order information for artworks. • Primary key: Pre-Order Id. • Foreign keys: Artist Id (references Artist table), Audience Id (references Audience table).
9	Artwork	• Stores artwork information. • Primary key: Artwork Id. • Foreign key: Artist Id (references Artist table).
10	Rating	• Stores ratings for artworks. • Primary key: Rating Id. • Foreign keys: Artwork Id (references Artwork table), Audience Id (references Audience table).
11	Follow Information	• Stores follower information for artists. • No primary key (composite key: Artist Id, Audience Id). • Foreign keys: Artist Id (references Artist table), Audience Id (references Audience table).
12	Audience	• Stores audience member information. • Primary key: Audience Id.
13	Order	• Stores order information. • Primary key: Order Id. • Foreign key: Audience Id (references Audience table).
14	Order Detail	• Stores details of artworks in an order. • Primary key: Order Detail Id. • Foreign keys: Order Id (references Order table), Artwork Id (references Artwork table).

3. Detailed Design

3.1 Buy Artwork

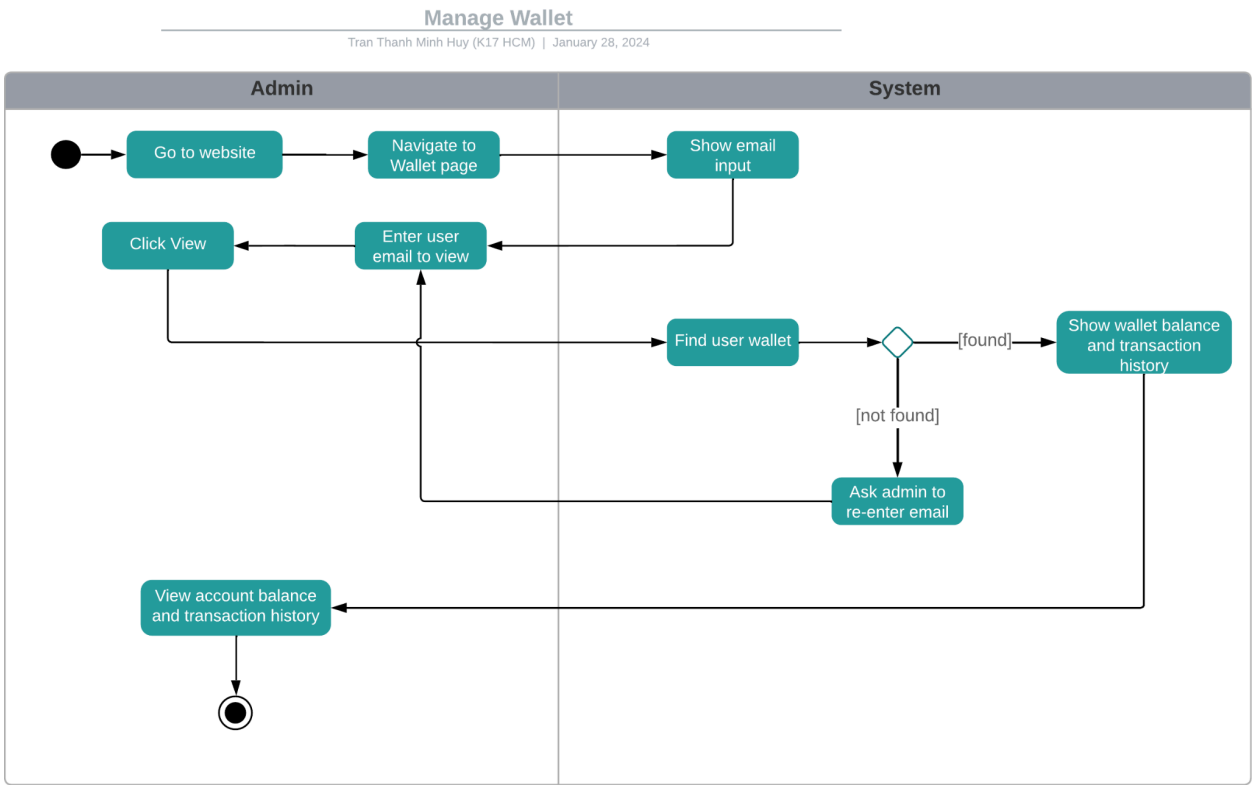


3.2 Upload Artwork

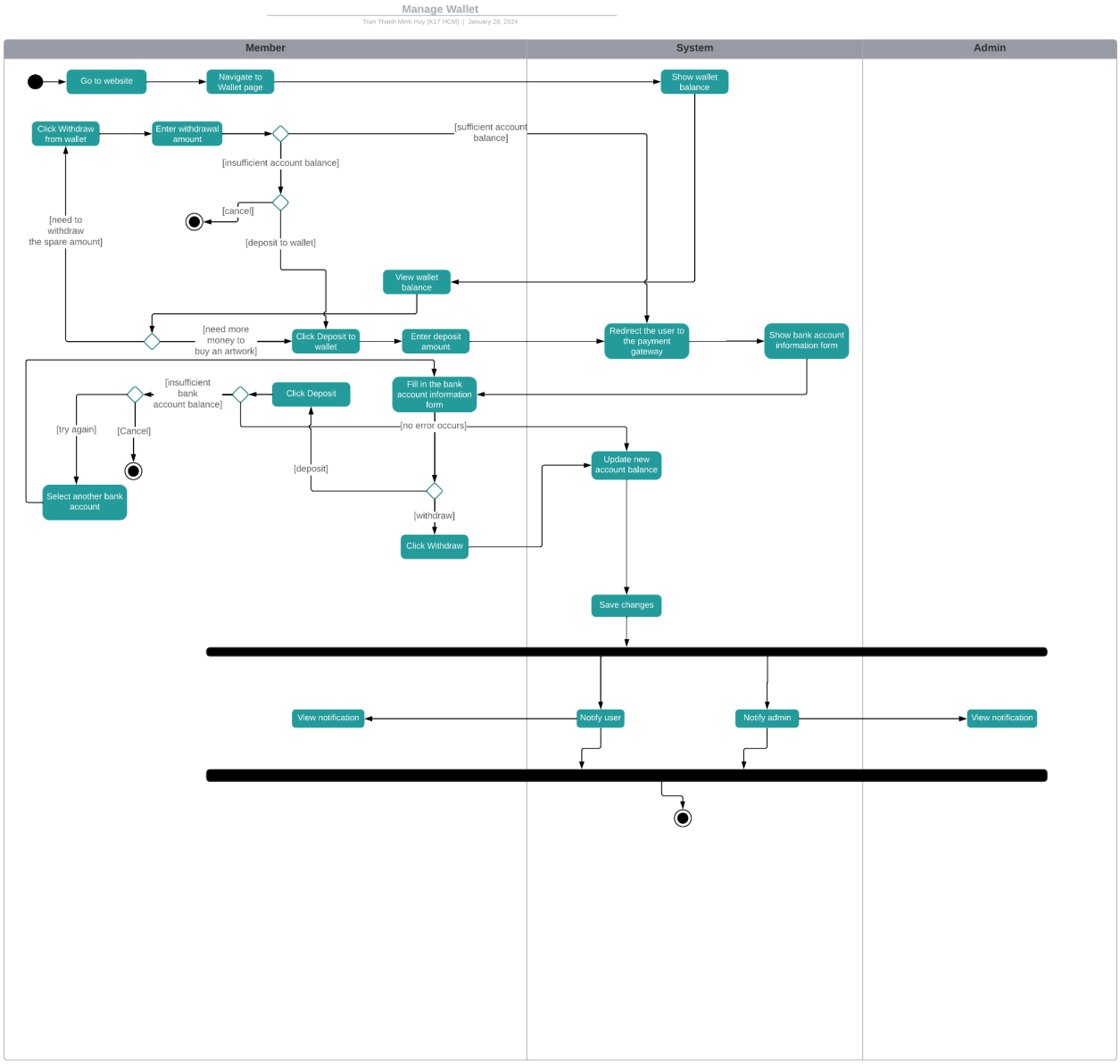


3.3 Manage Wallet

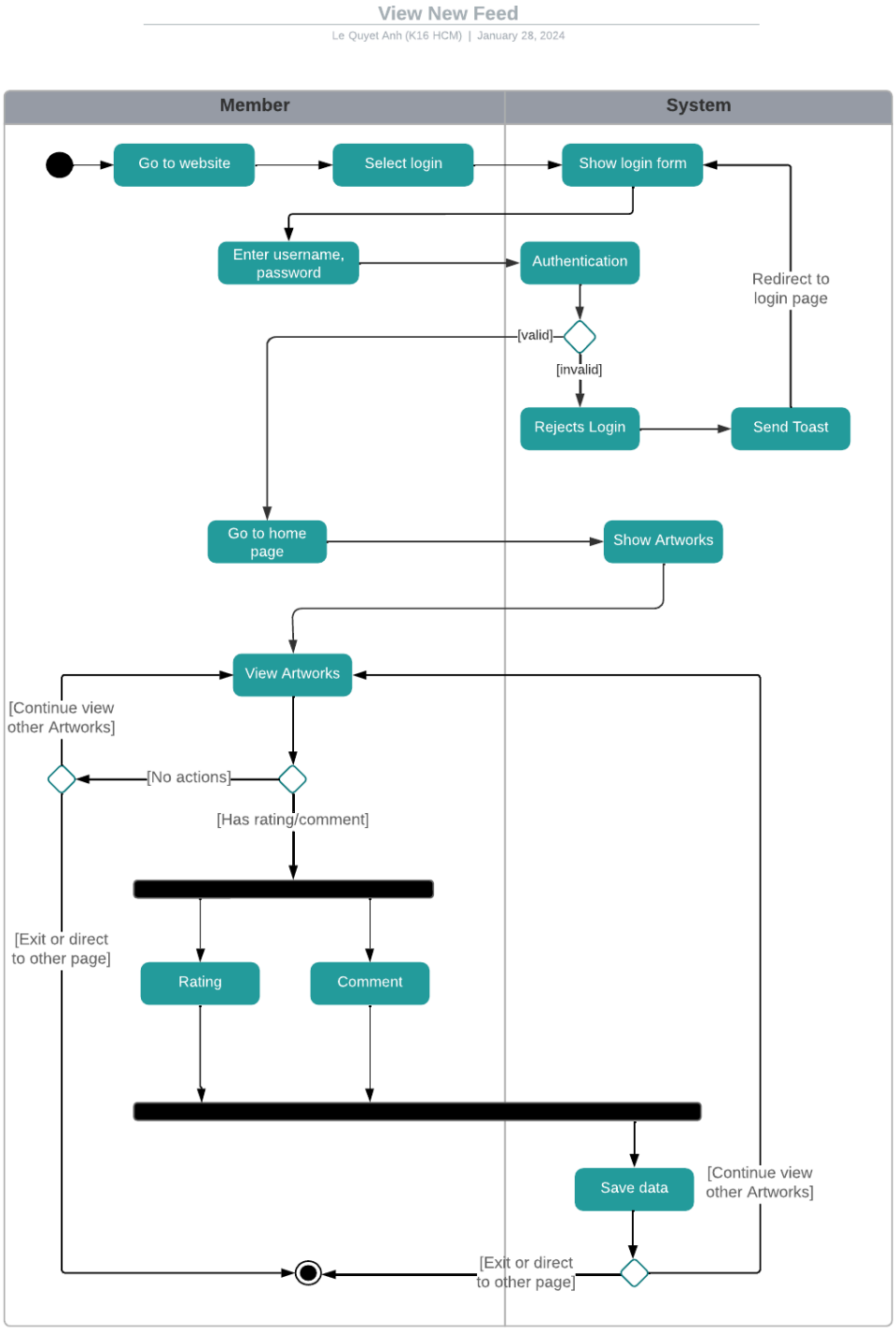
3.3.1 For Admin



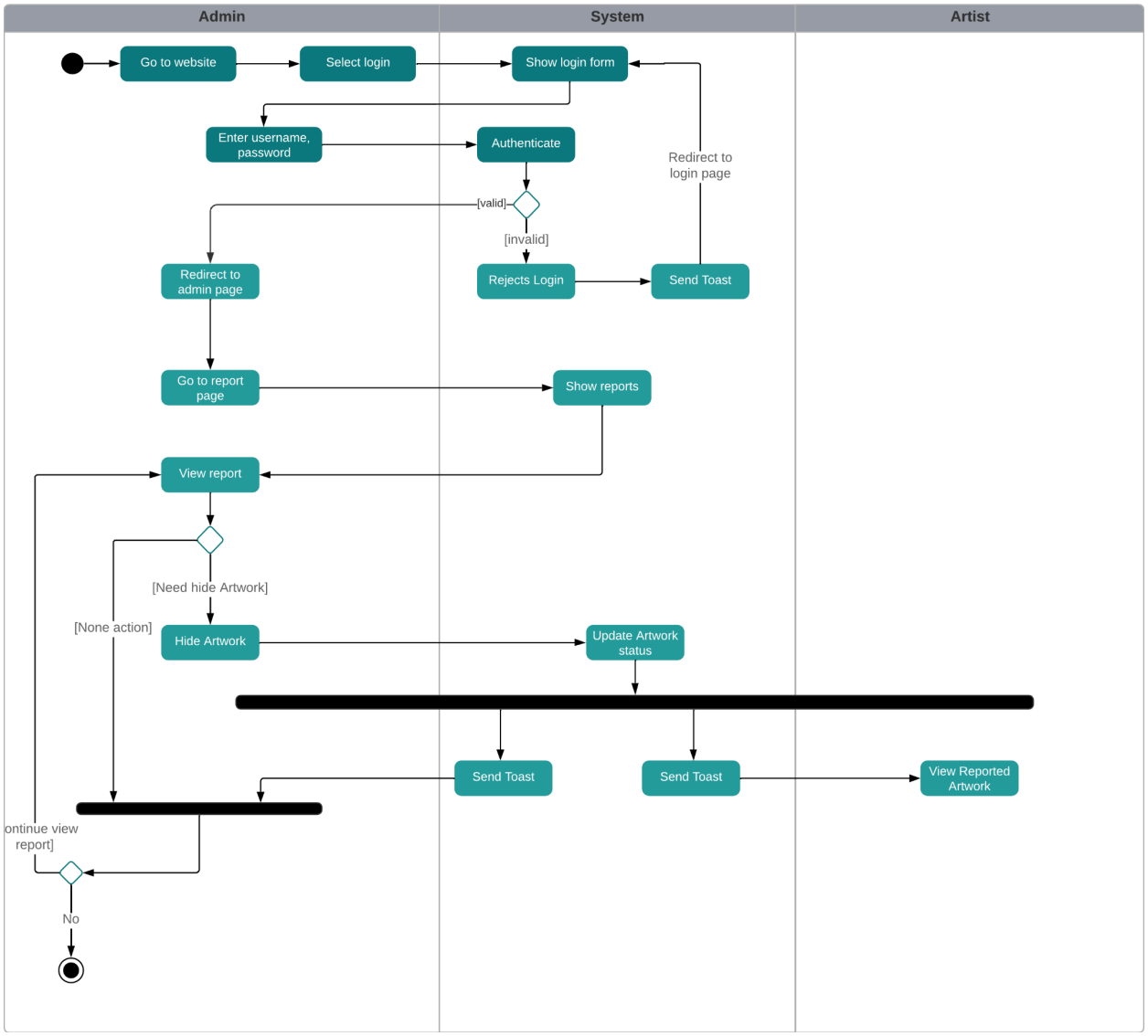
3.3.2 For Member



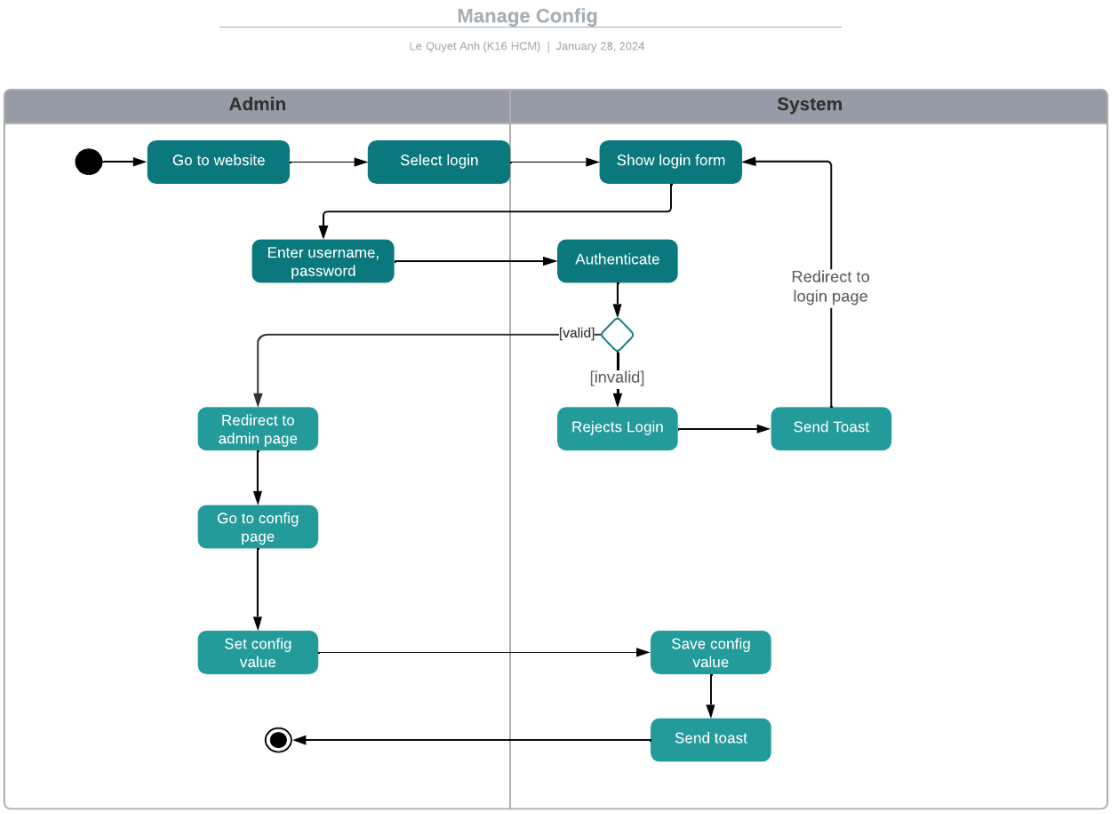
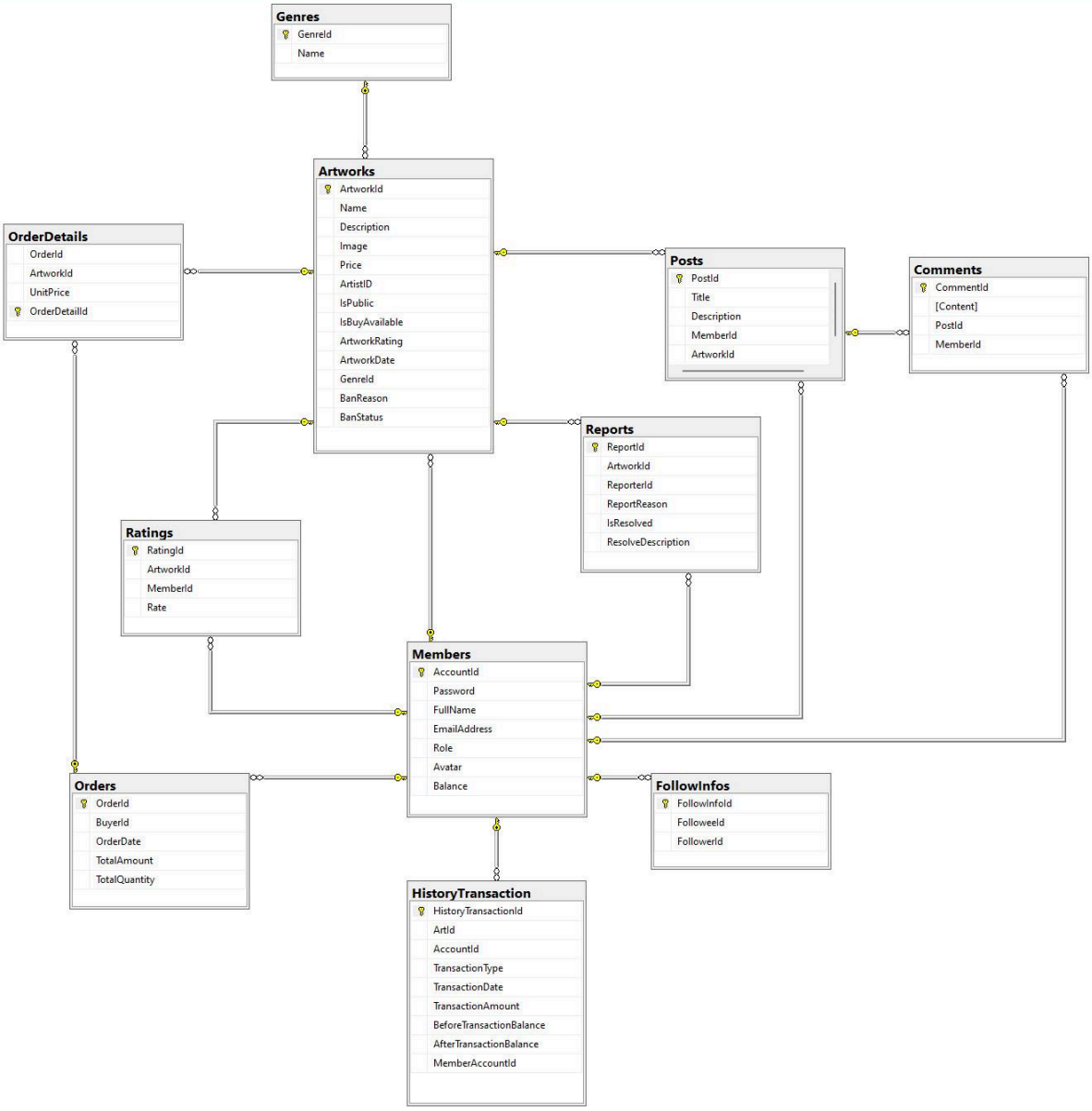
3.4 View New Feed



3.5 Manage User Report



3.6 Manage Config



4. Class Diagram