



CODE FURY

E asset management project title:

“ A SET OF ASSETS ”

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TEAM-1 WFS-5

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Database Design :

1) User

- i) Userid
- ii) Username
- iii) Password
- iv) Name
- v) Phone number
- vi) Email
- vii) Last login time
- viii) Role [Admin/Borrower]

2) Category

- i) Category Name
- ii) Lending period
- iii) Ban Period
- iv) Fine/day

3) Asset

- i) Asset id
- ii) Category name
- iii) Subcategory
- iv) Feature description
- v) Date Added
- vi) Is Available

4) Borrow

- i) Transaction id
- ii) User id
- iii) Asset id
- iv) Issue date
- v) Due date
- vi) Return date
- vii) Borrow status [Open/Close/Pending]

5) Over Due Transactions

- i) Transaction id
- ii) Ban start Date
- iii) Is Fine Paid
- iv) Is Ban Finished
- v) Message

Test Cases :

1) Registration

a) Input

- i) USERNAME: IronMan234
- ii) NAME: Tony Stark
- iii) PHONE_NUMBER: 1234562345
- iv) EMAIL: tony@gmail.com
- v) LAST_LOGIN_TIME: 2020-10-16 13:20:30
- vi) PASSWORD: Pass@123
- vii) ROLE: BORROWER

b) Output

- i) User successfully registered

2) Login

a) Input

- i) USERNAME: IronMan234
- ii) PASSWORD: Pass@123

b) Output

- i) User successfully Logged in

3) Add Category

a) Input

- i) CATEGORY_NAME: Laptop
- ii) LENDING_PERIOD: 10
- iii) BAN_PERIOD: 10
- iv) FINE_PER_DAY: 1000

b) Output

- i) Category Added Successfully

4) Add Asset

a) Input

- i) CATEGORY_NAME: Laptop
- ii) SUBCATEGORY: Lenovo
- iii) FEATURE_DESCRIPTION: High spec Programming laptop
- iv) DATE_ADDED: 2020-10-01
- v) IS_AVAILABLE: true

b) Output

- i) Category Added Successfully

5) Insertion into Borrow

a) Input

- i) TRANSACTIONID: 1
- ii) USERID: 1
- iii) ASSETID:1
- iv) ISSUE_DATE: 2020-10-02
- v) DUE_DATE: 2020-10-12
- vi) BORROW_STATUS: Open

b) Output

- i) Borrow Transaction Successful

6) Insertion into Overdue

a) Input

- i) TRANSACTIONID: 1
- ii) BAN_START_DATE:
- iii) IS_FINE_PAID: false
- iv) IS_BAN_FINISHED: false
- v) MESSAGE: Ban for 10 days is active

b) Output

- i) Overdue transaction added successfully

7) Fetch details of Overdue Transactions by Username

a) Input

i) USERNAME: IronMan234

b) Output:

i) TRANSACTIONID: 1

ii) BAN_START_DATE:

iii) IS_FINE_PAID: false

iv) IS_BAN_FINISHED: false

v) MESSAGE: Ban for 10 days is active

8) Fetch details of Overdue Transactions by Issue Date

a) Input

i) ISSUE_DATE: 2020-10-02

b) Output (Overdue Transactions where)

i) TRANSACTIONID: 1

ii) BAN_START_DATE:

iii) IS_FINE_PAID: false

iv) IS_BAN_FINISHED: false

v) MESSAGE: Ban for 10 days is active

9) Fetch details of Overdue Transactions by Category

a) Input

i) CATEGORY: Laptop

b) Output (Overdue Transaction where Asset Category is 'Laptop' are displayed)

- i) TRANSACTIONID: 1
- ii) BAN_START_DATE:
- iii) IS_FINE_PAID: false
- iv) IS_BAN_FINISHED: false
- v) MESSAGE: Ban for 10 days is active

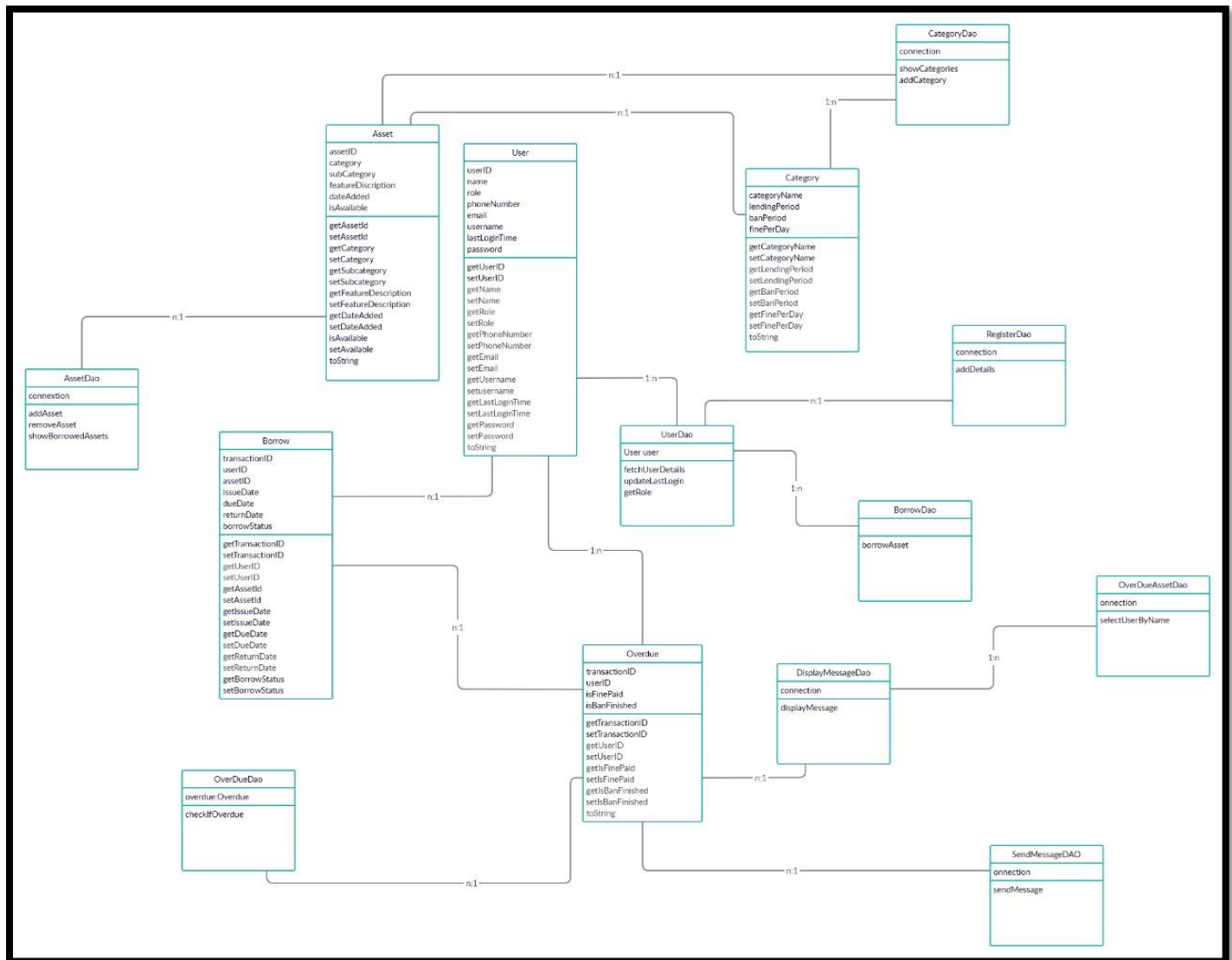


Figure 1 : Class Diagram

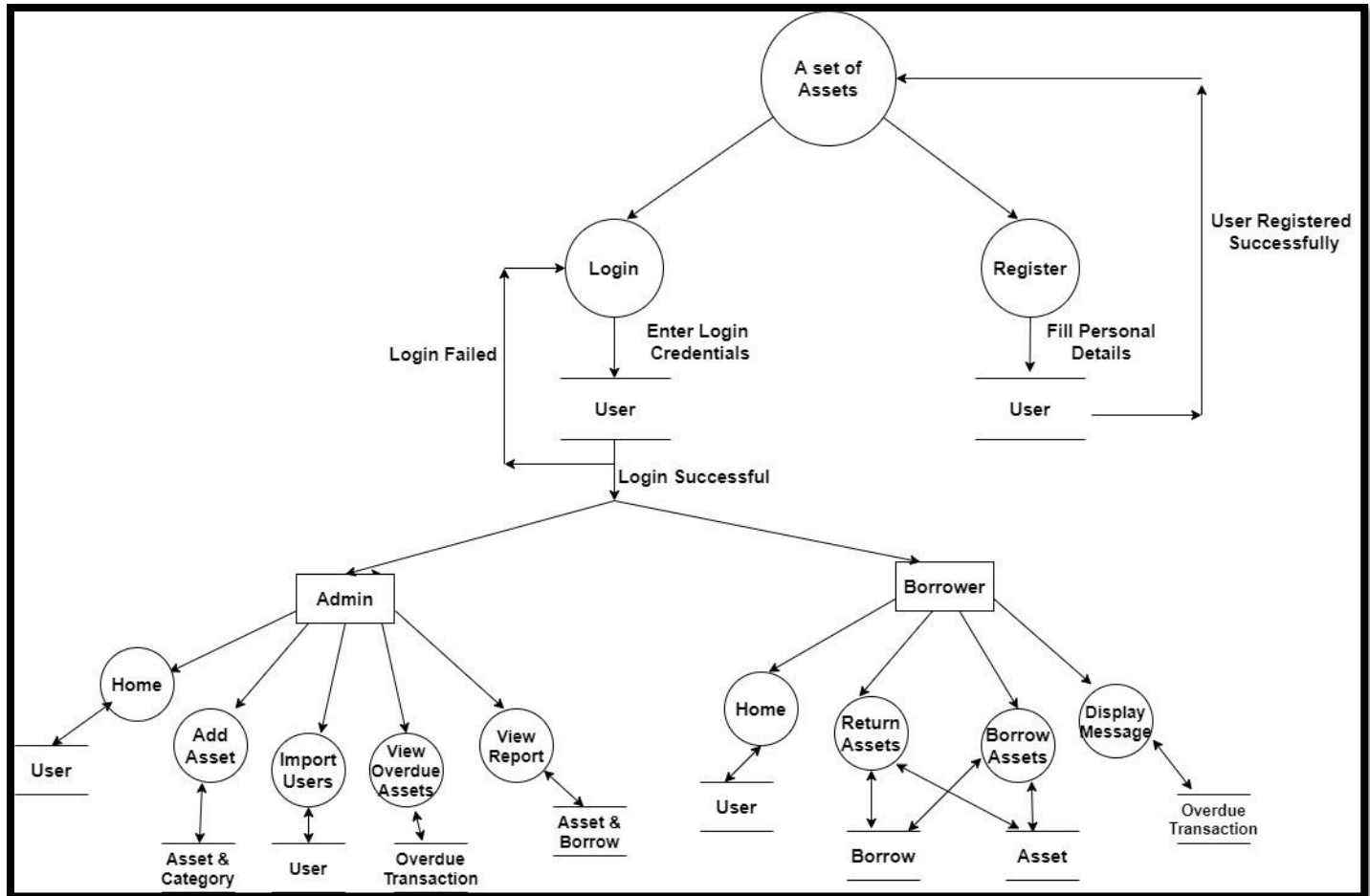


Figure 2 : Data flow diagram

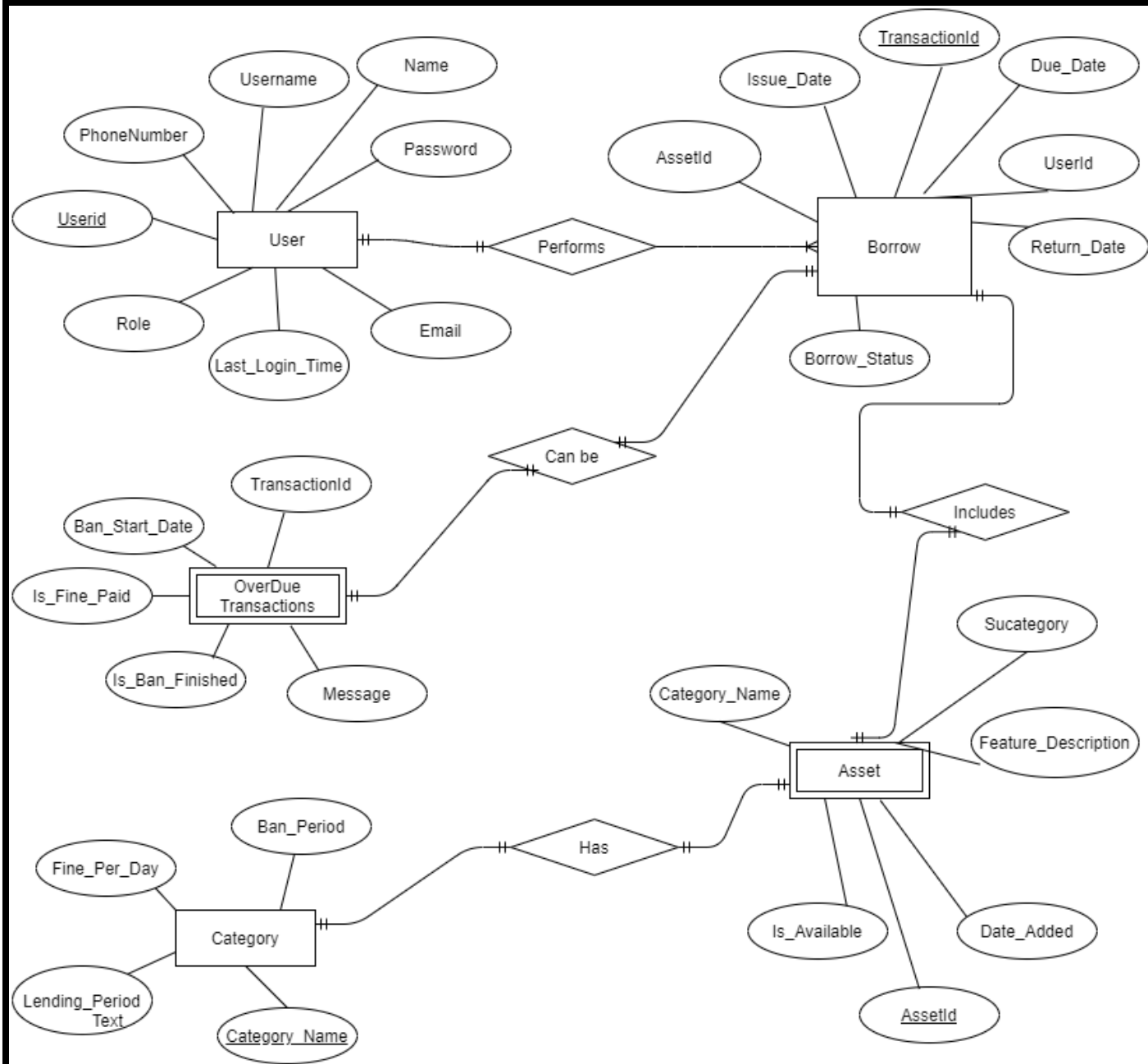


Figure 3 : Entity relationship Diagram

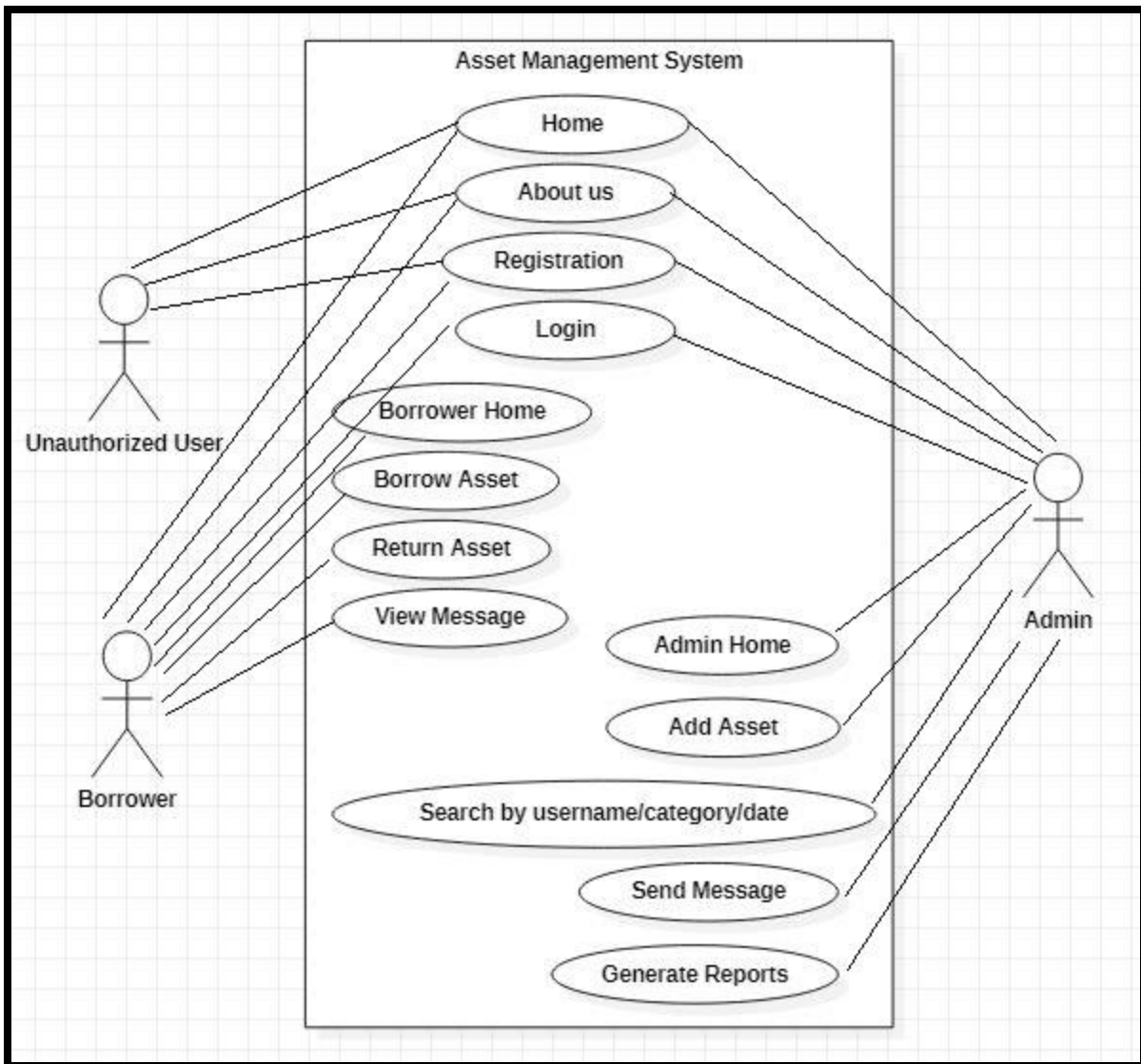


Figure 4 : Use case diagram