Loan User Management Application (LUMA)

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LUMA

- LUMA provides a facility for GIS Global Employees to purchase items from GIS Global Mart and facilitates a flexible loan to purchase the items.
- In a loan user management application , loan cards are provided for employees to purchase various items with a specific repayment tenure.
- This application would also allow the users to view all the loans applied for and items purchased.

Users

There are two types of users

1. Admin, who is an Internal Manager person manages the data.

2. User, who is an internal Employee who can apply for the card.

The services provided in the User Application are:

- It should allow the user to login and validate the credentials.
- It should allow the users to apply loan for a particular item
- It should allow the users to view all the loan cards availed
- It should allow the users to view all the items purchased on loan cards

Tech Stack Used

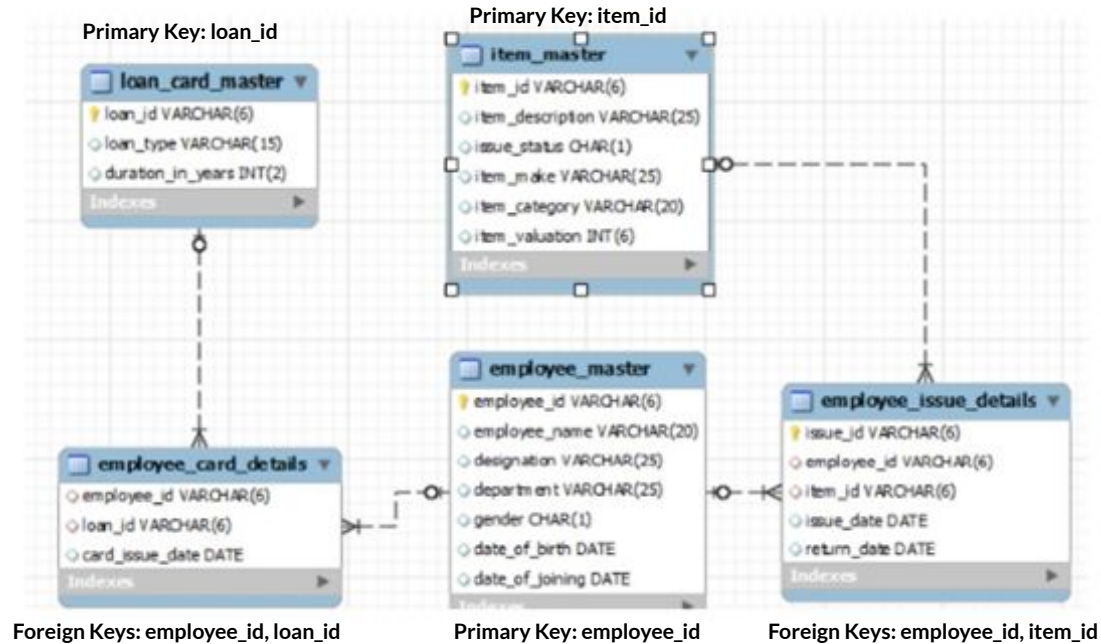Databases: MySQL

Presentation or View Layer: React

Backend processing: Spring and Spring Boot

Database Connectivity: Spring data JPA
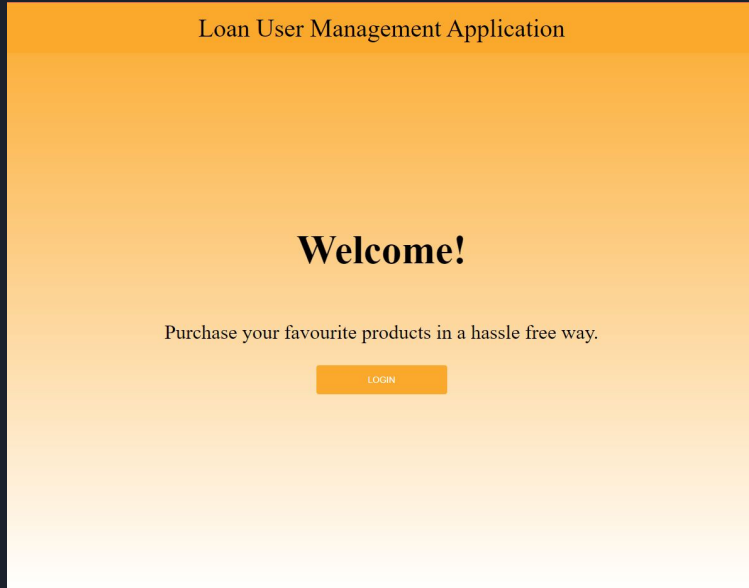
Version control systems: Git

Build Tools: Maven

Schema
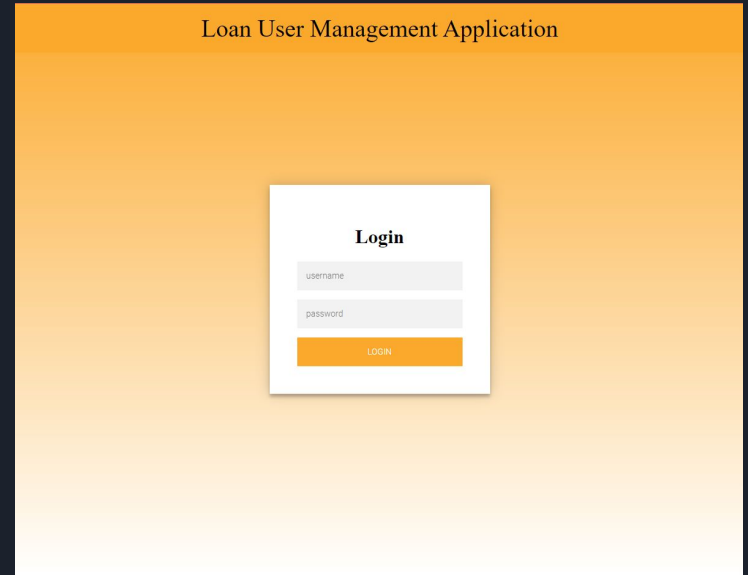
Primary Key: loan_id

Primary Key: item_id

loan_card_master
- loan_id VARCHAR(6)
- loan_type VARCHAR(15)
- duration_in_years INT(2)

Indexes

item_master
- item_id VARCHAR(6)
- item_description VARCHAR(25)
- issue_status CHAR(1)
- item_make VARCHAR(25)
- item_category VARCHAR(20)
- item_valuation INT(6)

Indexes

employee_master
- employee_id VARCHAR(6)
- employee_name VARCHAR(20)
- designation VARCHAR(25)
- department VARCHAR(25)
- gender CHAR(1)
- date_of_birth DATE
- date_of_joining DATE

Indexes

employee_card_details
- employee_id VARCHAR(6)
- loan_id VARCHAR(6)
- card_issue_date DATE

Indexes

employee_issue_details
- issue_id VARCHAR(6)
- employee_id VARCHAR(6)
- item_id VARCHAR(6)
- issue_date DATE
- return_date DATE

Indexes

Foreign Keys: employee_id, loan_id

Primary Key: employee_id

Foreign Keys: employee_id, item_id

Execution

Home Page :

User Login : Successful login redirects the employee to User Dashboard, else "Incorrect credentials" error message is displayed

User Dashboard: It consists of 3 options:

- "Apply for Loan" to purchase particular item (shows error message if item not found)
- "View Loans" displays all the loans availed by an employee
- "View Items Purchased" displays all the items purchased by an employee
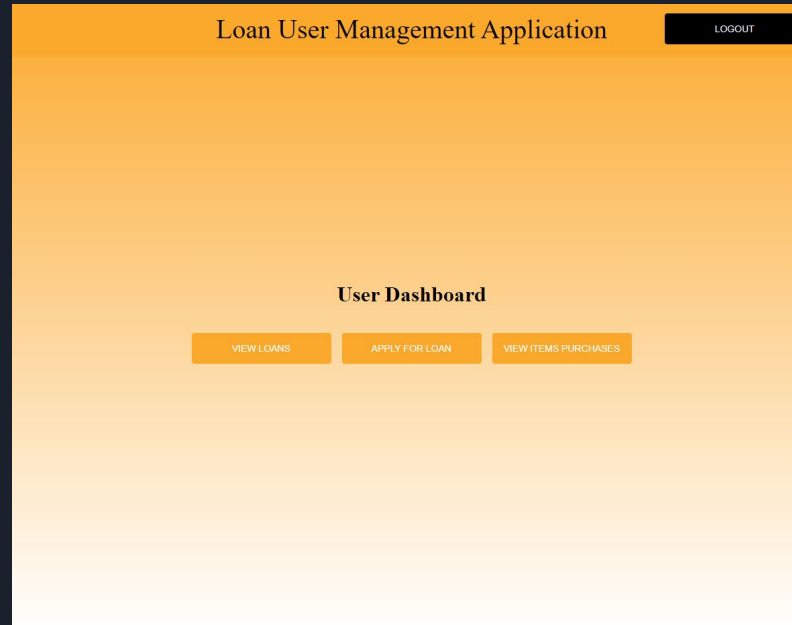
Screen 1 (top-left):

Loan User Management Application — LOGOUT

Loan Management Application

Select product and apply for loan

Employee Id	E0001
Item Category	crockery
Item description	glasses
Item Make	glass

FIND VALUATION

Screen 2 (top-right):

Loan User Management Application — LOGOUT

Loan Management Application

Select product and apply for loan

Employee Id	E0001
Item Category	crockery
Item description	glasses
Item Make	glass
Item Value	500

FIND VALUATION   APPLY FOR LOAN

Screen 3 (bottom-left):

Loan User Management Application — LOGOUT

Loan Cards Availed

Employee ID: E0001

Loan type	Card Issue Date	Duration
stationary	2022-11-09	1
crockery	2022-11-10	2

Screen 4 (bottom-right):

Loan User Management Application — LOGOUT

Items Purchased

Employee ID: E0001

Issue Id	Item Description	Item Category	Item Make	Item Valuation
1	pencil	stationary	plastic	20.0
2	glasses	crockery	glass	500.0
3	glasses	crockery	glass	500.0

Thank you!
Queries?