

Loan Management System

Presentation by Batch 9, Team 4

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Project Overview

Loan Management System (LMS) provides a facility for Employees to purchase items from an internal Mart and facilitates a flexible loan option to purchase and then repay the loan within specific duration.

Any employee can apply for loan and the admin acts as the approver for the loan requests.

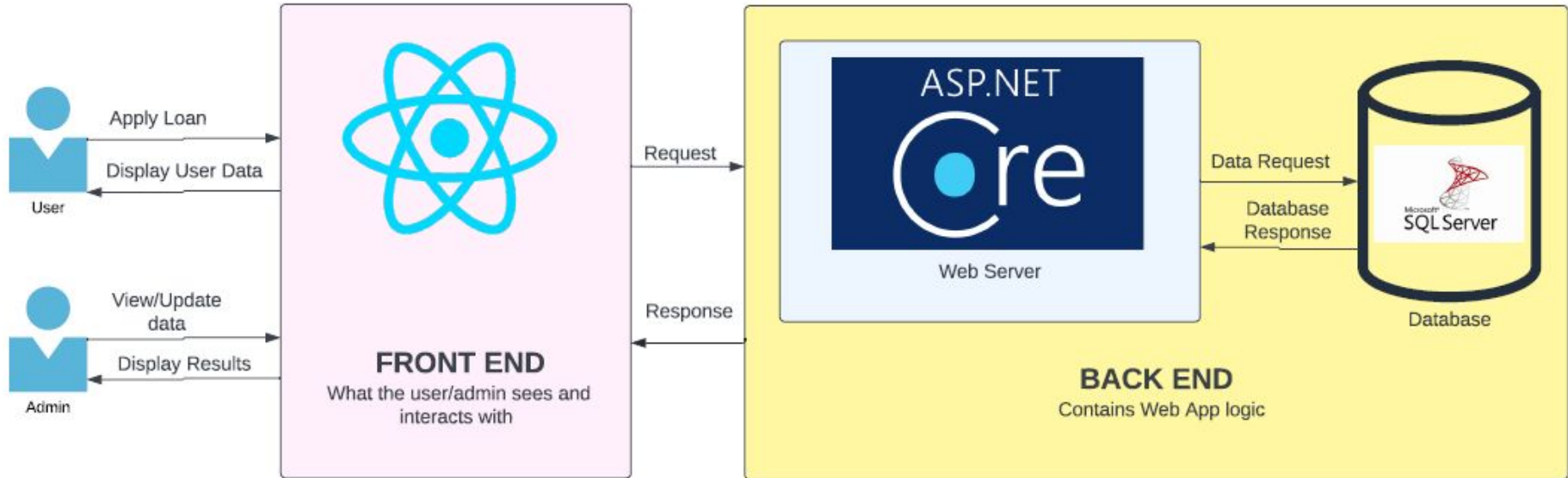


Project Functionalities

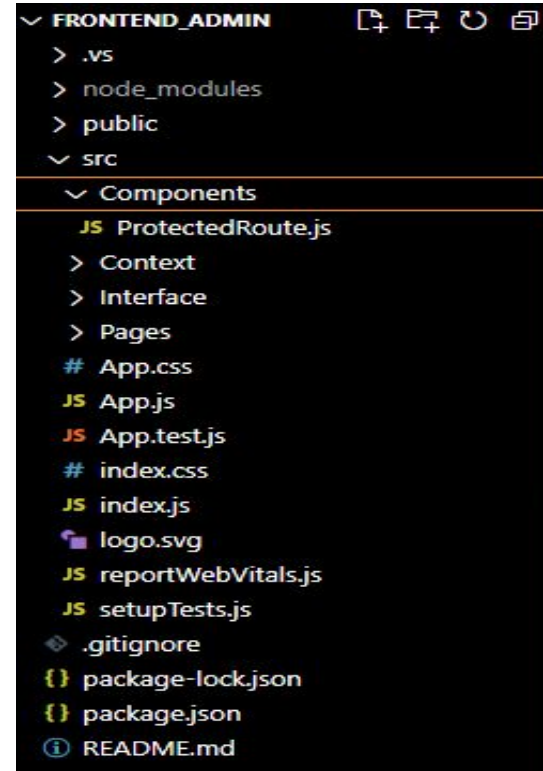
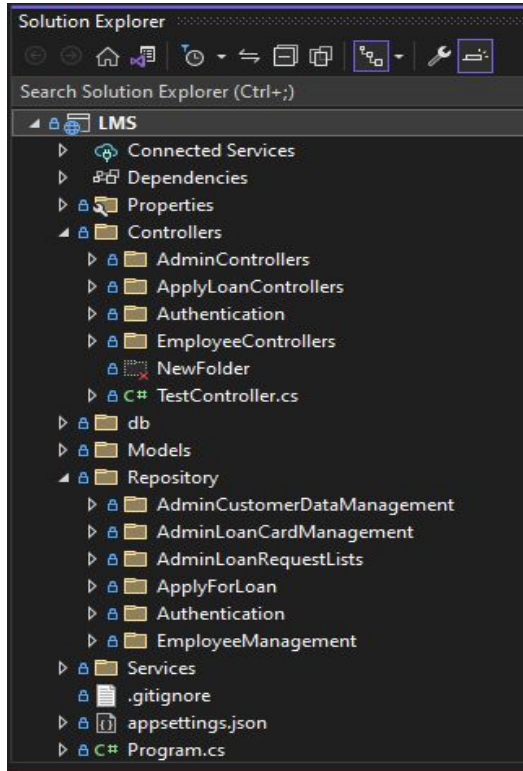
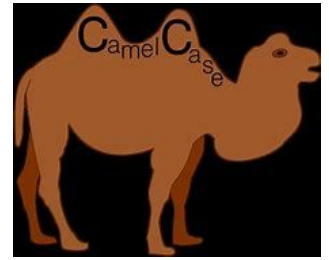
Following are the major functionalities of this Project:-

- Employee can register themselves on the application and login using credentials.
- Employee can apply for loan and view existing loans
- Admin can view all loans and can approve or reject them.
- Admin can manage loan cards ie, can define loan item and their valuations.
- Admin can maintain Item Master Database, Loan Master Database and Customer Master Database

Project Architecture





CodeBase



User Interface

Sign In





☐ Remember Me

Submit

Don't have an account? [Sign Up](#)


Fill up the form to
register

Employee Name:

Employee Designation:

Employee Department:

Gender:

Date of Birth: 

Register and Continue

Loan Data Management

Add New Loan Data

Loan Type 

Loan Duration

ADD NEW LOAN

GET LOAN DATA FOR ALL CUSTOMERS

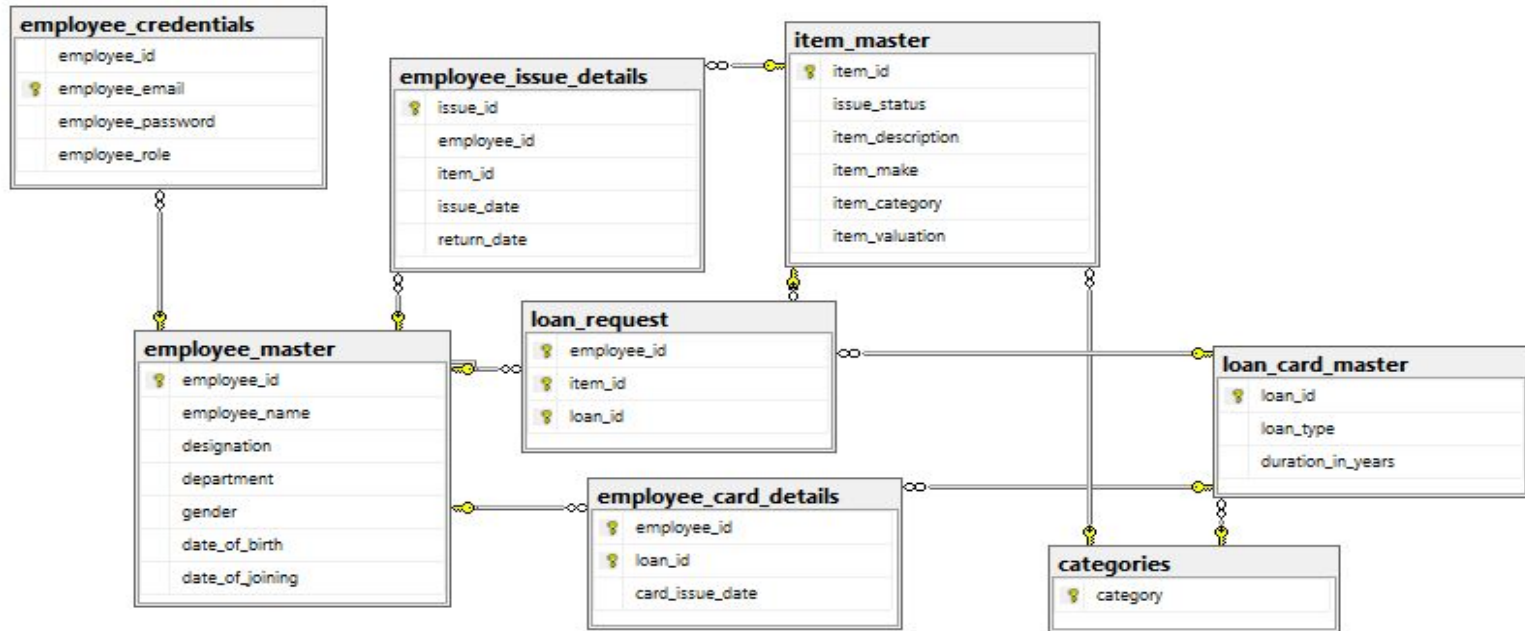
LOGOUT

Loan Request List

Employee Name	Designation	Department	Gender	Item Description	Item Make	Item Category	Item Valuation	Action	
arya	Manager	Finance	Male	hellop		Furniture	45678	Approve	Decline
pavana	Manager	Sales	Female	dummy		Furniture		Approve	Decline
pavana	Manager	Sales	Female	dyiluu	Metal	Furniture		Approve	Decline
arya	Manager	Finance	Male	fghj	Glass	Furniture		Approve	Decline
arya	Manager	Finance	Male	hellop	Metal	Furniture		Approve	Decline
arya	Manager	Finance	Male	fghjkj	Glass	Furniture		Approve	Decline
arya	Manager	Finance	Male	wer		Furniture		Approve	Decline

Database Integration

We used Database-First approach to start with the development process.



Challenges

- Lack of experience with the given tech stack among team-mates.
- Limited time to discuss, assign and work on any given functionality.
- Limited scope for errors and learn from them due to less time.

Future Scope

- Register functionality can be extended to allow more authorised users to request admin account. This request can be approved by existing admins.
- User functionality to display all items that are available or if not available currently, then their tentative date of availability.
- Scope for better and more intuitive user interface.
- Admin functionality to view the total loan amount for all active loans.
- Application can utilise machine learning algorithms to suggest items during apply loan process based on user's past behaviour.

Individual Contribution

Name	Contribution
Anjan	Database Schema, Customer Management API, Loan Data Management API, Item Data Management API, Employee Apply for Loan API, API to Get Loans and Items by Emp ID, API Testing, Apply Loan UI, Dynamic fetching of categories and materials to UI from backend
Garima	Register API, Apply Loan UI, Display Loans and Items UI, Admin Customer Management UI, Admin Loan Data Management UI, Admin Item Data Management UI
Rajat	Login API, Register API, Item Data Management API, API Testing, Database Schema
Subhradeep	Register UI, Login UI, styling of all pages including- forms and tables
Sweta	Admin Customer Management UI, Admin Loan Data Management UI, Admin Item Data Management UI, UI styling

Thanks!

