

Loan Management Application

DotNet Team 5

Adil
Safiya
Sindhu
Mehak
Yachika

Decorative geometric shapes in the bottom right corner, consisting of several overlapping squares and triangles in shades of blue and white.

Contributions

Adil :- Initial Registration Page, View Loans Page, Items Purchased Page, UI Changes

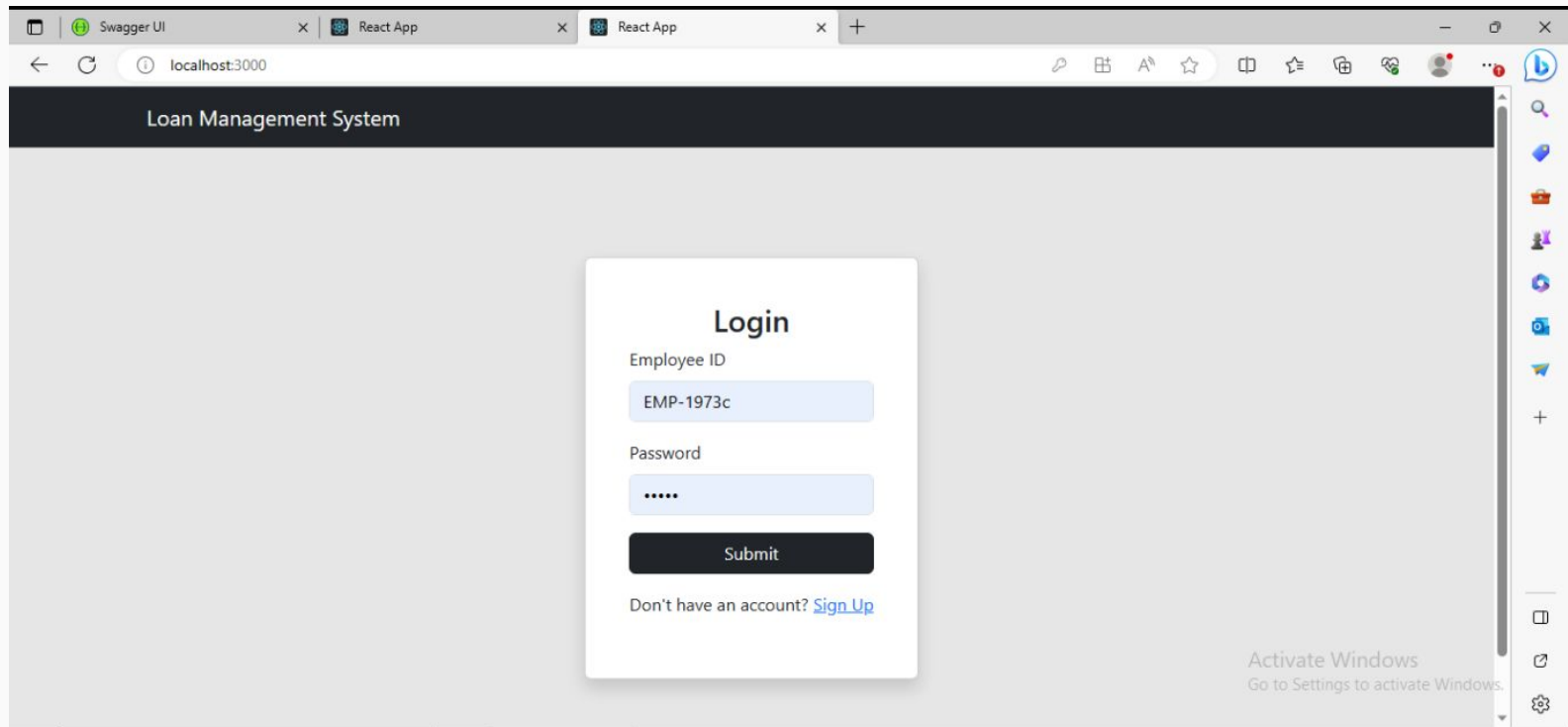
Safiya :- Employee APIs, Requests APIs, My Loans Page, Dashboard Pages, Loan Cards APIs, Test Cases

Sindhu:- Edit employee page, Admin approve requests page, Few routes on backend

Mehak:- Loan cards page, Item master page, login page, add & edit modals.

Yachika:- Login page, Apply Loans page, Navbar, Items API.

Loan Management Application: Login Page



Loan Management System

Login

Employee ID

EMP-1973c

Password

.....

Submit

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

Activate Windows
Go to Settings to activate Windows.

Registration Page

Loan Management System

 **Register here!**

Please Enter Your Details:

Employee Name

Password

Confirm Password

Designation

Department

Gender

Date of Birth



Register

Already have an account? [Login](#)

Activate Windows

Go to Settings to activate Windows.

LAMA [Admin Dashboard]

LAMA Employees Loans Items Requests

Logout

Admin Dashboard

Welcome **Adil** (EMP-98ebc)



Employee Data



Loan Card Data















Item Data

Activate Windows
Go to Settings to activate Windows.

LAMA: Employee data details

LAMA Employees Loans Items Requests

Logout

Employee Id	Employee Name	Designation	Department	Gender	Date of Birth	Date of Joining	Edit	Delete
EMP-0ff95	Star	admin	PA	F	2000-11-11	2023-09-27		
EMP-79afc	Spongebob	PA	WF	M	2000-10-11	2023-09-27		
EMP-98ebc	Adil	admin	WF	M	2000-10-10	2023-09-26		
EMP-a02b3	Mehak	PA	WF	F	2000-10-10	2023-09-26		
EMP-ab6da	Yachika	PA	WFA	F	2001-06-13	2023-09-27		
EMP-c5243	Sindhu	PA	WFA	F	2001-01-10	2023-09-26		

Activate Windows
Go to Settings to activate Windows.

Edit Employee details

LAMA Employees Loans Items Requests

Logout

Employee Id	Employee Name	Date of Joining	Edit	Delete
EMP-0ff95	Star	2023-09-27		
EMP-79afc	Spongebob	2023-09-27		
EMP-98ebc	Adil	2023-09-26		
EMP-a02b3	Mehak	2023-09-26		
EMP-ab6da	Yachika	2023-09-27		
EMP-c5243	Sindhu	2023-09-26		

Edit details of Employee



Employee Name

Star

Designation

admin

Department

PA

Gender

Female



Date Of Birth

11-11-2000



Date of Joining

27-09-2023



Submit

Activate Windows
Go to Settings to activate Windows.







LAMA: Loans Card Data

LAMA Employees Loans Items Requests

Logout

All Available Loan Cards are Shown Below

Add Loan Card

Loan Id	Loan Type	Duration	Edit	Delete
CARD-1c53a	Crockery	2 Years		
CARD-958a2	Stationary	1 Years		
CARD-ba621	Furniture	5 Years		

Activate Windows
Go to Settings to activate Windows.

Add Loans

LAMA Employees Loans Items Requests

Logout

All Available Loans

Loan Id
CARD-1c53a
CARD-958a2
CARD-ba621

Edit details of Item



Loan Category

Duration in Years

Submit

Add Loan Card

Edit

Delete



Edit Loans

LAMA Employees Loans Items Requests

Logout

All Available Loans

Loan Id
CARD-1c53a
CARD-958a2
CARD-ba621

Edit details of Loan Card



Loan Type

Crockery

Duration in Years

2

Submit

Add Loan Card

Edit

Delete



Activate Windows
Go to Settings to activate Windows.


Edit items details

LAMA Employees Loans Items Requests

Logout

All Available Items are Shown Below

Add Items

Item ID	Category	Description	Make	Valuation	Edit	Delete
ITEM-5b968	Stationary	Pencil	Wood	₹ 33		
ITEM-67d92	Crockery	Cuttlery	Metal	₹ 8000		
ITEM-96fa0	Crockery	Plate	Ceramic	₹ 8000		
L001	Furniture	Sofa	Wood	₹ 8000		
L002	Furniture	Table	Marble	₹ 10000		
L003	Furniture	Chair	Wooden	₹ 20000		
L005	Furniture	Sofa	Wooden	₹ 10000		

Activate Windows
Go to Settings to activate Windows.

LAMA: Request

LAMA Employees Loans Items Requests

Logout

Request ID: REQ-6d498

Table

Make: Marble

Category: Table

Value: ₹ 10000

Request Date: 2023-09-27

Repayment Tenure: 5 Years

Status: Pending Approval

Submit

Request ID: REQ-a0274

Chair

Make: Wooden

Category: Chair

Value: ₹ 20000

Request Date: 2023-09-27

Repayment Tenure: 5 Years

Status: Pending Approval

Submit

Activate Windows
Go to Settings to activate Windows.

LUMA [User Dashboard]

LUMA [View](#) [Orders](#) [My Loans](#)

[Logout](#)

User Dashboard

Welcome **Sindhu** (EMP-c5243)



[View Loans](#)



[Orders](#)



[My Loans](#)

Activate Windows
Go to Settings to activate Windows.

LUMA: View loans

LUMA [View](#) [Orders](#) [My Loans](#)

[Logout](#)

Choose Loan-Card for Sindhu (EMP-c5243)



Crockery

Duration: 2 Years

[Apply for Loan](#)



Stationary

Duration: 1 Years

[Apply for Loan](#)



Furniture

Duration: 5 Years

[Apply for Loan](#)

Activate Windows
Go to Settings to activate Windows

LUMA: Apply for loans

LUMA [View](#) [Orders](#) [My Loans](#)

[Logout](#)

Choose Item for Sindhu (EMP-c5243) from Furniture Category

Sofa

Item Id: L001

Category: Furniture

Make: Wood

[Apply](#)

Table

Item Id: L002

Category: Furniture

Make: Marble

[Apply](#)

Chair

Item Id: L003

Category: Furniture

Make: Wooden

[Apply](#)

Sofa

Item Id: L005

Category: Furniture

Make: Wooden

[Apply](#)

Activate Windows
Go to Settings to activate Windows.

Item Purchased

LUMA

[View](#) [Orders](#) [My Loans](#)

[Logout](#)

ITEM-96fa0

Plate

Category: Crockery

Make: Ceramic

Valuation: ₹ 8000

ITEM-5b968

Pencil

Category: Stationary

Make: Wood

Valuation: ₹ 33

Activate Windows
Go to Settings to activate Windows.

All Loan Cards Requested by **Spongebob** (EMP-79afc)

Sofa

Item ID: L001

Make: Wood

Category: Furniture

Valuation: ₹ 8000

Request ID: REQ-68d3e

Request Date: 2023-09-27

Request Status: Rejected

Return Date TBD

Loan ID: CARD-ba621

Duration: 5 Years

Table

Item ID: L002

Make: Marble

Category: Furniture

Valuation: ₹ 10000

Request ID: REQ-6d498

Request Date: 2023-09-27

Request Status: Pending Approval

Return Date TBD

Loan ID: CARD-ba621

Duration: 5 Years

Plate

Item ID: ITEM-96fa0

Make: Ceramic

Category: Crockery

Valuation: ₹ 8000

Request ID: REQ-88f85

Request Date: 2023-09-27

Request Status: Approved

Return Date: 2025-09-27

Loan ID: CARD-1c53a

Duration: 2 Years

Chair

Item ID: L003

Make: Wooden

Category: Furniture

Valuation: ₹ 20000

Request ID: REQ-a0274

Request Date: 2023-09-27

Request Status: Pending Approval

Return Date TBD

Loan ID: CARD-ba621

Duration: 5 Years

Pencil

Item ID: ITEM-5b968

Make: Wood

Category: Stationary

Valuation: ₹ 33

Request ID: REQ-c6f5a

Request Date: 2023-09-27

Request Status: Approved

Return Date: 2024-09-27

Loan ID: CARD-958a2

Duration: 1 Years

Activate Windows
Go to Settings to activate Windows.

APIs written

Authorization

POST

/api/Authorization/login



POST

/api/Authorization/register



Employee

GET

/api/Employee/all



GET

/api/Employee/{id}



PUT

/api/Employee/{id}



DELETE

/api/Employee/{id}



EmployeeLoanCard

GET

/approved/all



GET

/approved/{employee-id}



APIs written

EmployeeRequest

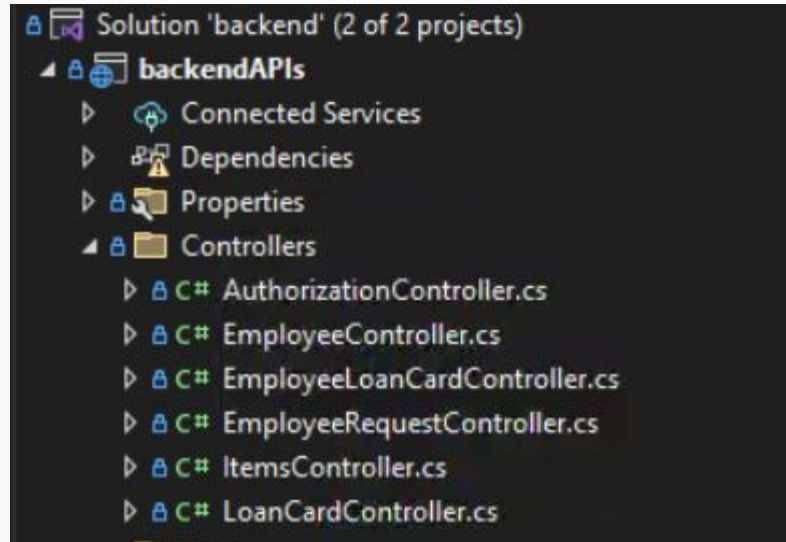
GET	/api/EmployeeRequest/all	✓	🔒
GET	/api/EmployeeRequest/requests	✓	🔒
GET	/request-id/{request-id}	✓	🔒
GET	/employee-id/{employee-id}	✓	🔒
GET	/status/{status}	✓	🔒
GET	/item-id/{item-id}	✓	🔒
GET	/my-loans/{employee-id}	✓	🔒
POST	/api/EmployeeRequest/add	✓	🔒
PUT	/api/EmployeeRequest/{request-id}	✓	🔒
DELETE	/api/EmployeeRequest/{request-id}	✓	🔒

Activate Windows
Go to Settings to activate Windows.

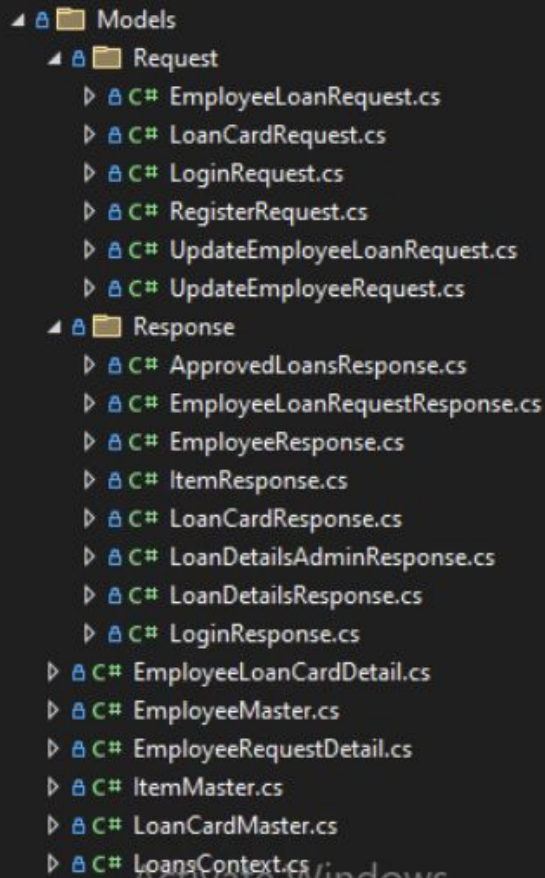
APIs written

Items			^
GET	/api/Items	✓	🔒
POST	/api/Items	✓	🔒
PUT	/api/Items	✓	🔒
DELETE	/api/Items	✓	🔒
GET	/api/Items/findById	✓	🔒
LoanCard			^
GET	/api/LoanCard/all	✓	🔒
GET	/api/LoanCard/{id}	✓	🔒
PUT	/api/LoanCard/{id}	✓	🔒
DELETE	/api/LoanCard/{id}	✓	🔒
POST	/api/LoanCard/add	✓	🔒

Backend Folder Structure



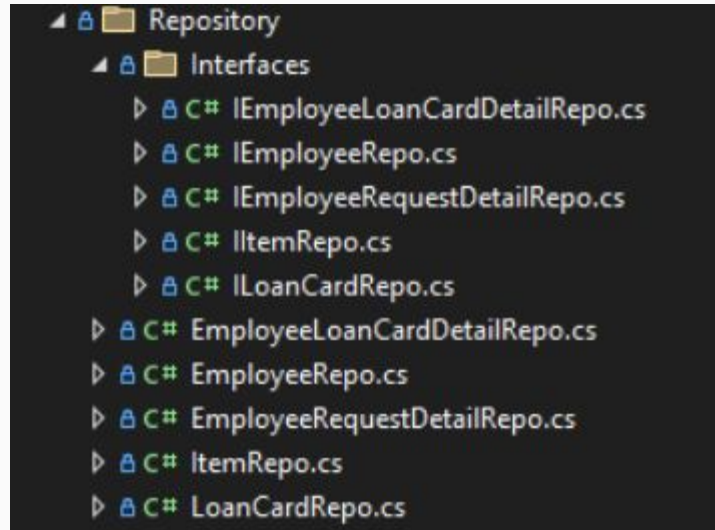
Backend Folder Structure



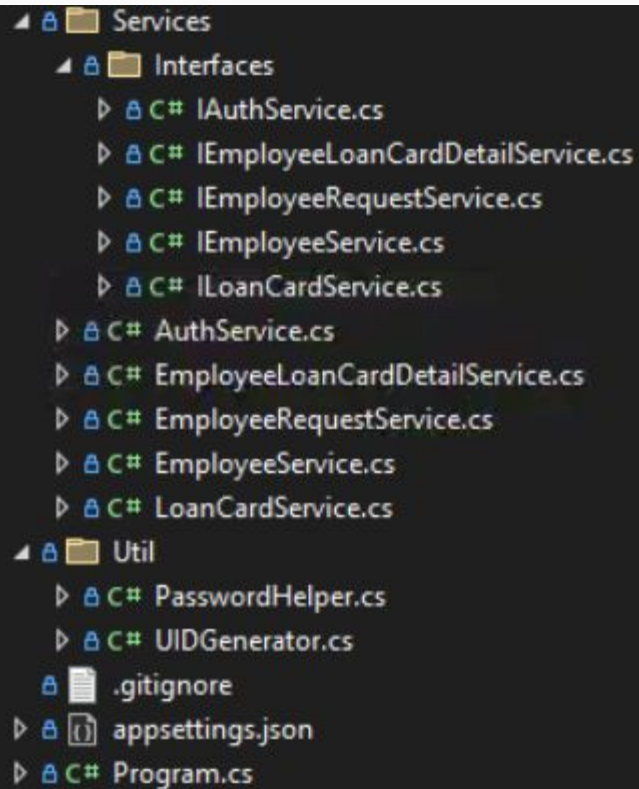
A screenshot of a file explorer window showing the following directory structure:

- Models
 - Request
 - EmployeeLoanRequest.cs
 - LoanCardRequest.cs
 - LoginRequest.cs
 - RegisterRequest.cs
 - UpdateEmployeeLoanRequest.cs
 - UpdateEmployeeRequest.cs
 - Response
 - ApprovedLoansResponse.cs
 - EmployeeLoanRequestResponse.cs
 - EmployeeResponse.cs
 - ItemResponse.cs
 - LoanCardResponse.cs
 - LoanDetailsAdminResponse.cs
 - LoanDetailsResponse.cs
 - LoginResponse.cs
 - EmployeeLoanCardDetail.cs
 - EmployeeMaster.cs
 - EmployeeRequestDetail.cs
 - ItemMaster.cs
 - LoanCardMaster.cs
 - LoansContext.cs

Backend Folder Structure



Backend Folder Structure



```

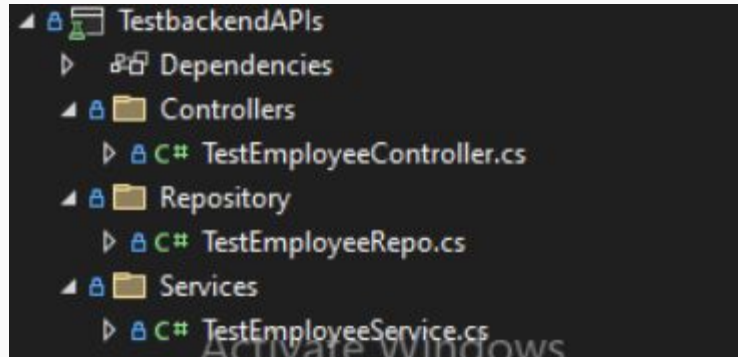
└─ Services
  └─ Interfaces
    ├── IAuthService.cs
    ├── IEmployeeLoanCardDetailsService.cs
    ├── IEmployeeRequestService.cs
    ├── IEmployeeService.cs
    └── ILoanCardService.cs
  ├── AuthService.cs
  ├── EmployeeLoanCardDetailsService.cs
  ├── EmployeeRequestService.cs
  ├── EmployeeService.cs
  └── LoanCardService.cs
  └─ Util
    ├── PasswordHelper.cs
    └── UIDGenerator.cs
  ├── .gitignore
  ├── appsettings.json
  └── Program.cs

```

The image shows a file explorer window with a dark background. The tree view displays the following structure:

- Services
 - Interfaces
 - C# IAuthService.cs
 - C# IEmployeeLoanCardDetailsService.cs
 - C# IEmployeeRequestService.cs
 - C# IEmployeeService.cs
 - C# ILoanCardService.cs
 - C# AuthService.cs
 - C# EmployeeLoanCardDetailsService.cs
 - C# EmployeeRequestService.cs
 - C# EmployeeService.cs
 - C# LoanCardService.cs
- Util
 - C# PasswordHelper.cs
 - C# UIDGenerator.cs
- .gitignore
- appsettings.json
- Program.cs

Backend Folder Structure



Test Cases

test Explorer

Ready

13 13 0

Test	Duration	Traits	Error
TestbackendAPIs (13)	459 ms		
TestbackendAPIs.Controllers (4)	172 ms		
TestEmployeeController (4)	172 ms		
TestDeleteEmployee("EMP-1234")	155 ms		
TestGetEmployeeByld("EMP-1234")	8 ms		
TestGetEmployees	5 ms		
TestUpdateEmployee("EMP-1234")	4 ms		
TestbackendAPIs.Repository (5)	273 ms		
TestEmployeeRepo (5)	273 ms		
TestAddEmployee	232 ms		
TestDeleteEmployee("EMP-1235")	21 ms		
TestGetAllEmployees	14 ms		
TestGetEmployeeByld("EMP-1234")	2 ms		
TestUpdateEmployee	4 ms		
TestbackendAPIs.Services (4)	14 ms		
TestEmployeeService (4)	14 ms		
TestDeleteEmployee("EMP-1234")	8 ms		
TestGetAllEmployees	2 ms		
TestGetEmployeeByld("EMP-1234")	2 ms		
TestUpdateEmployee("EMP-1234")	2 ms		

Group Summary

TestbackendAPIs

Tests in group: 13

Total Duration: 459 ms

Outcomes

13 Passed

THANK YOU