



Loan Admin Management Application

Team 3
Batch 1



Team members

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Problem Statement

Build an Admin system to provides a facility for GIS Global Employees to purchase items from GIS Global Mart and facilitates a flexible loan to purchase the items. It should manage the below Admin activities:

- Admin login and validation through credentials
- Maintaining the customer data.
- Manage loan cards ie. add or delete or update loan cards
- Maintain the item master data.



Services

Admin Login Service

Customer Data Management Service

Loan Card Management Service

Item Master Management Service



Toolchain

Databases: MySQL

Presentation Layer: React

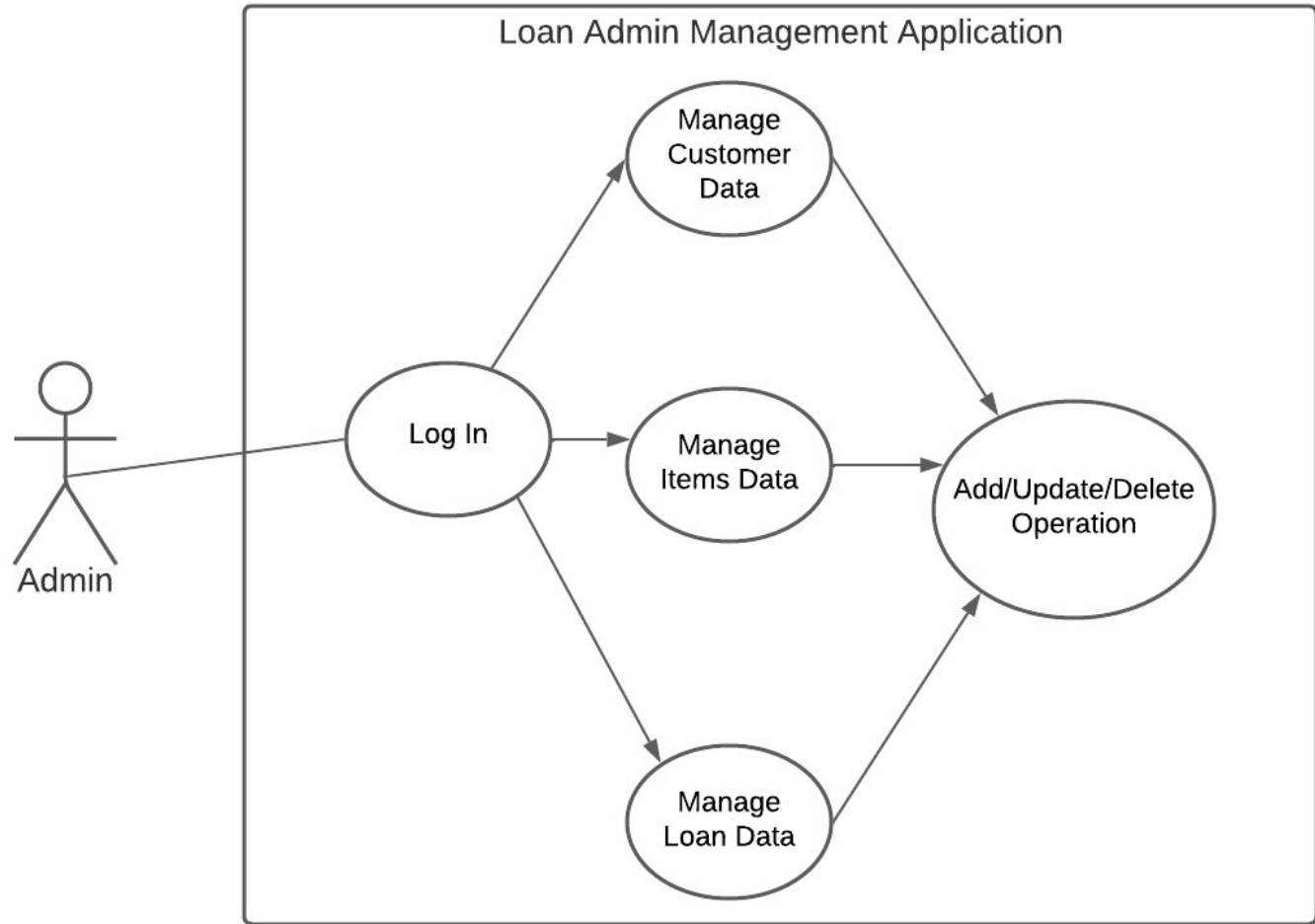
Backend processing: Springboot

Database Connectivity: Spring data JPA

Version control systems: Git

Build Tools: Maven

Use Case Diagram



Database Schema

admin
username VARCHAR(255)
password VARCHAR(255)
Indexes

loan_card
loan_id VARCHAR(255)
duration INT
loan_type VARCHAR(255)
serial_id BIGINT
Indexes

customers
emp_id VARCHAR(255)
birth_date VARCHAR(255)
department VARCHAR(255)
designation VARCHAR(255)
full_name VARCHAR(255)
gender VARCHAR(255)
joining_date VARCHAR(255)
Indexes

items
item_id VARCHAR(255)
description VARCHAR(255)
issue_status VARCHAR(255)
item_category VARCHAR(255)
item_make VARCHAR(255)
item_valuation BIGINT
Indexes



Tables Involved

admin
username
password

customer
emp_id
full_name
designation
department
gender
birth_date
joining_date

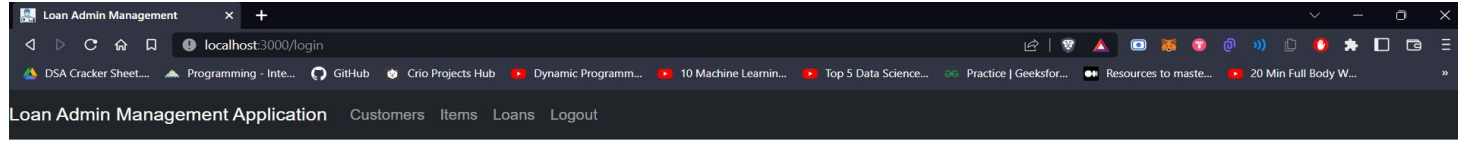
item
Item_id
Description
Issue_status
Item_make
Item_valuation

loan_card
loan_id
duration
loan_type
serial_id



Project Demo Screenshots

Admin Login Page



Admin Log in

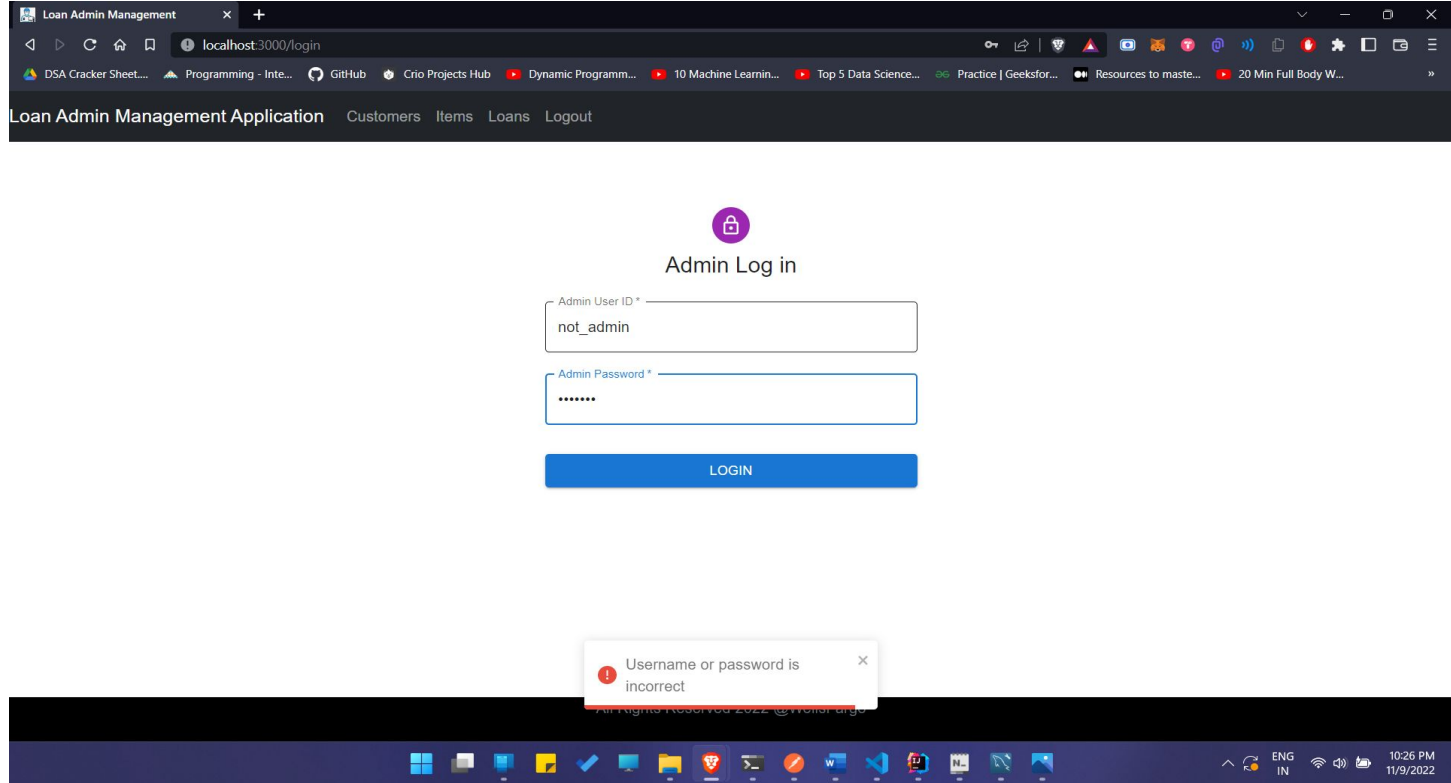
LOGIN

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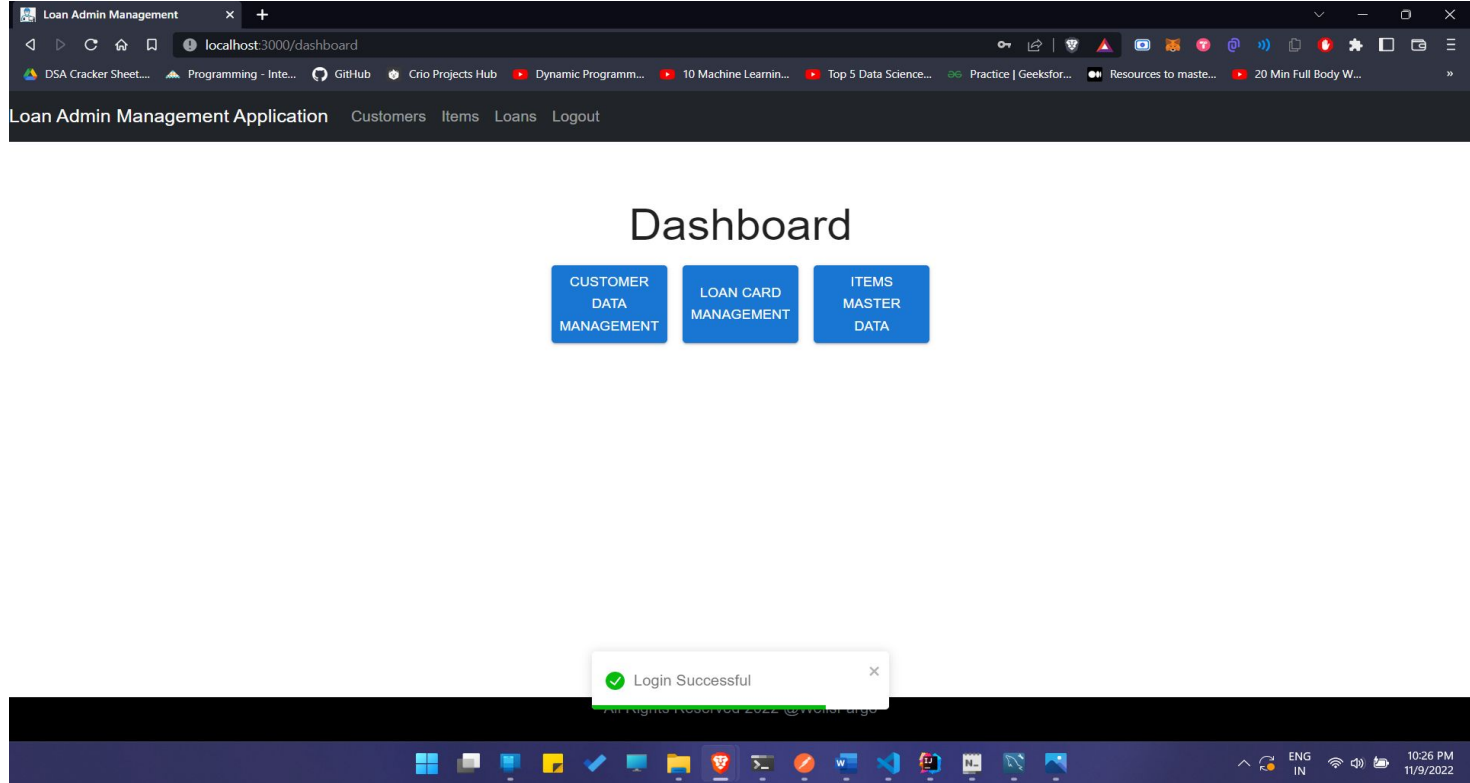


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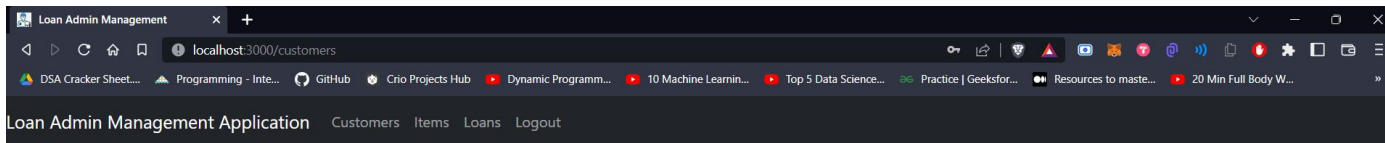
Admin Login Error Popup



Dashboard (Login Successful)



Customer Master Data

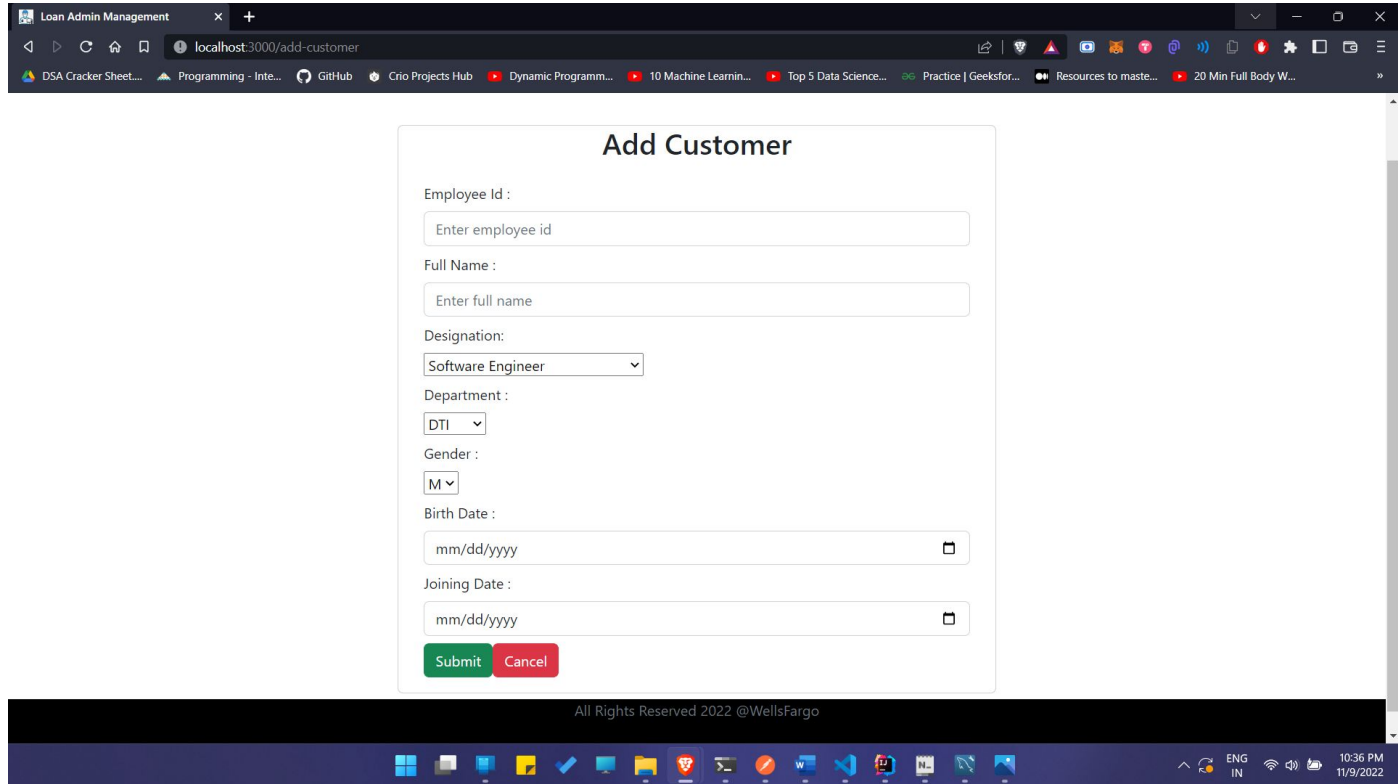


Customer Master Data Details

[Add Customer](#)

Employee Id	Employee Name	Designation	Department	Gender	Birth Date	Joining Date	Actions
E0001	John Doe	Lead Software Engineer	DTI	M	2022-11-07	2022-11-24	Update Delete
E0002	Ramesh Singh	Software Engineer	DTI	M	2022-09-28	2022-11-09	Update Delete

Add Customer

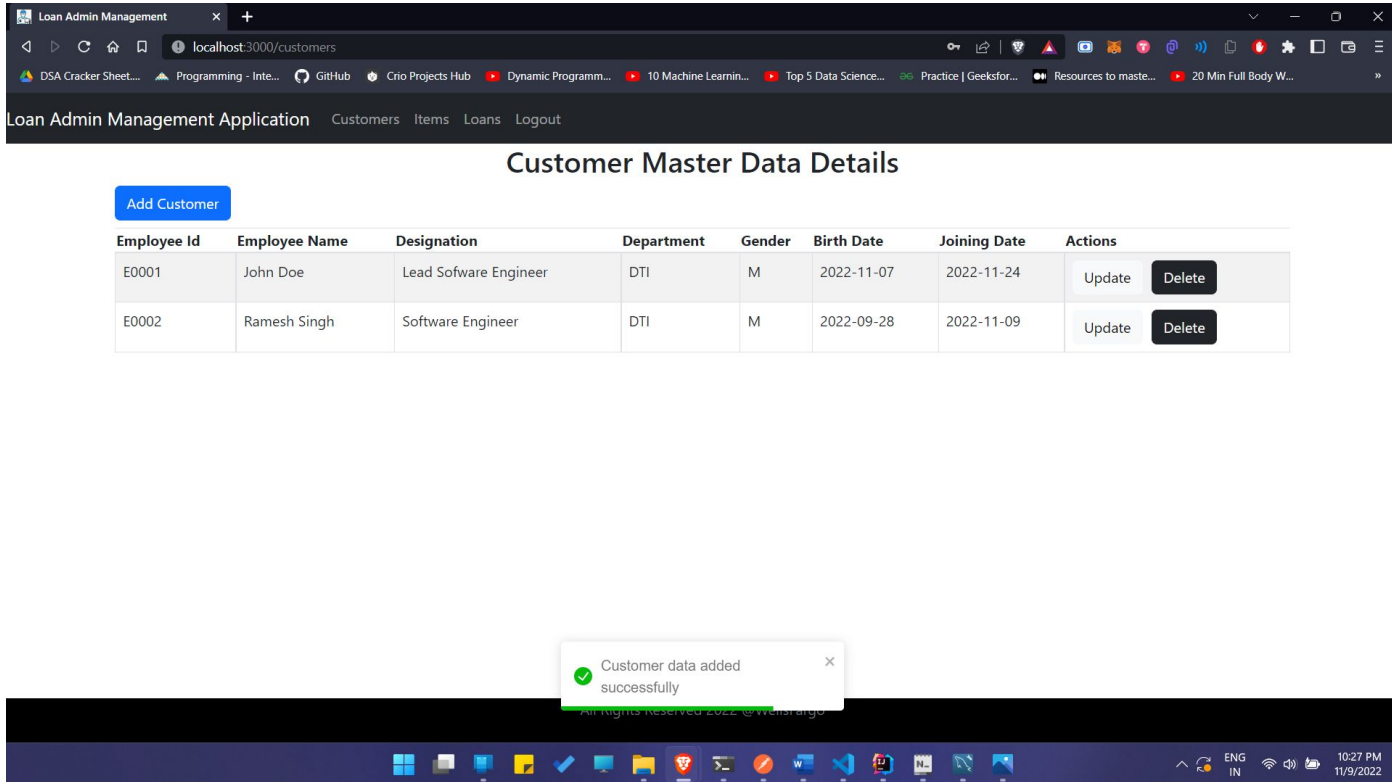


The screenshot shows a web browser window titled 'Loan Admin Management' with the address bar displaying 'localhost:3000/add-customer'. The browser's tab bar includes several open tabs: 'DSA Cracker Sheet...', 'Programming - Inte...', 'GitHub', 'Crio Projects Hub', 'Dynamic Programm...', '10 Machine Learn...', 'Top 5 Data Science...', 'Practice | Geeksfor...', 'Resources to maste...', and '20 Min Full Body W...'. The main content area displays a form titled 'Add Customer' with the following fields and controls:

- Employee Id :** A text input field with the placeholder text 'Enter employee id'.
- Full Name :** A text input field with the placeholder text 'Enter full name'.
- Designation:** A dropdown menu currently showing 'Software Engineer'.
- Department :** A dropdown menu currently showing 'DTI'.
- Gender :** A dropdown menu currently showing 'M'.
- Birth Date :** A date input field with the placeholder text 'mm/dd/yyyy' and a calendar icon on the right.
- Joining Date :** A date input field with the placeholder text 'mm/dd/yyyy' and a calendar icon on the right.
- Buttons:** At the bottom of the form are two buttons: a green 'Submit' button and a red 'Cancel' button.

At the bottom of the browser window, a footer text reads 'All Rights Reserved 2022 @Wells Fargo'. The Windows taskbar at the very bottom shows the time as 10:36 PM on 11/9/2022, along with system icons for language (ENG IN), network, and volume.

Customer Added Successfully



The screenshot displays a web browser window with the title "Loan Admin Management" and the URL "localhost:3000/customers". The browser's address bar shows the URL, and the page header includes the application name and navigation links: "Customers", "Items", "Loans", and "Logout".

Below the header, the page is titled "Customer Master Data Details". A blue button labeled "Add Customer" is positioned above a table. The table contains two rows of customer data, each with an "Update" button and a "Delete" button in the "Actions" column.

Employee Id	Employee Name	Designation	Department	Gender	Birth Date	Joining Date	Actions
E0001	John Doe	Lead Software Engineer	DTI	M	2022-11-07	2022-11-24	<button>Update</button> <button>Delete</button>
E0002	Ramesh Singh	Software Engineer	DTI	M	2022-09-28	2022-11-09	<button>Update</button> <button>Delete</button>

A green notification box at the bottom center of the screen displays the message: "Customer data added successfully".

Customer Updated Successfully



Customer Master Data Details

[Add Customer](#)

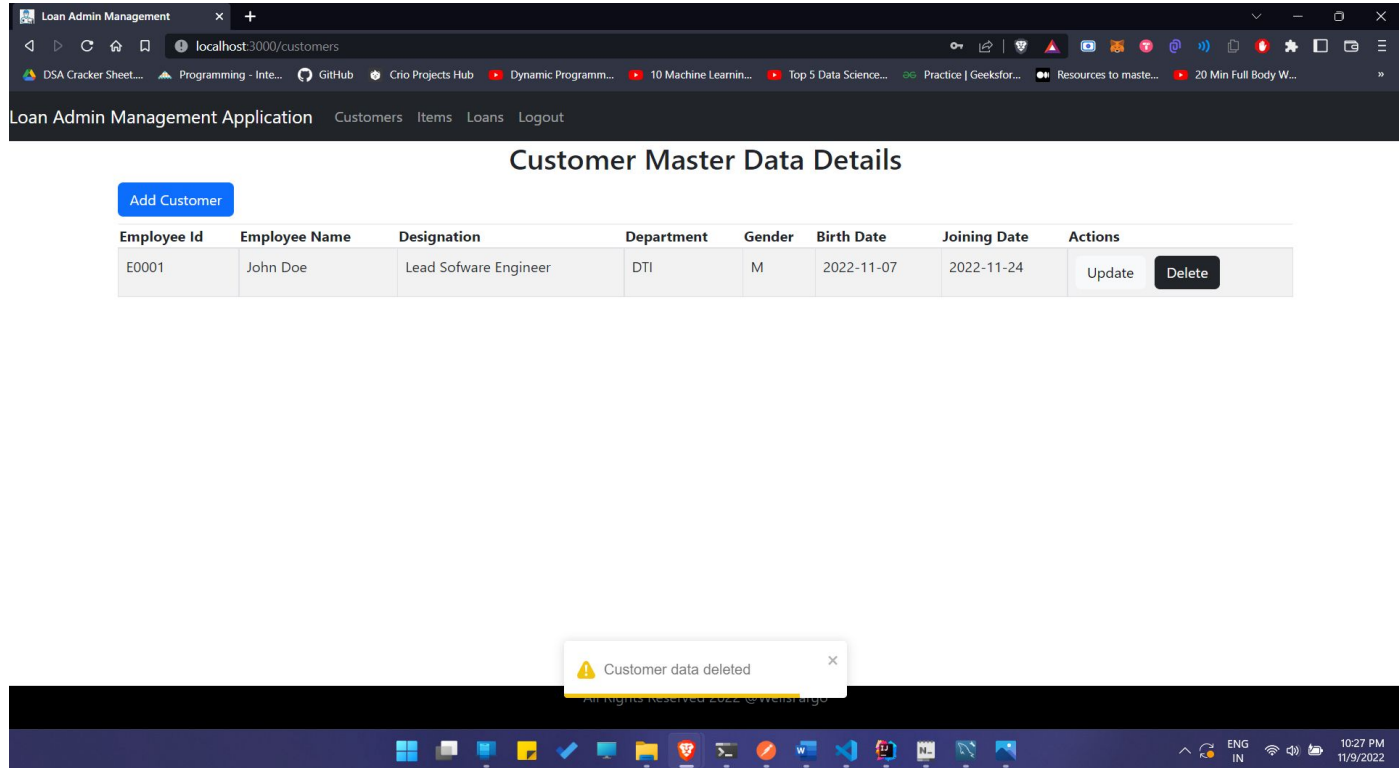
Employee Id	Employee Name	Designation	Department	Gender	Birth Date	Joining Date	Actions
E0001	John Doe	Lead Software Engineer	DTI	M	2022-11-07	2022-11-24	Update Delete
E0002	Ramesh Singh	Software Engineering Manager	DTI	M	2022-09-28	2022-11-09	Update Delete

✓ Customer data updated successfully!

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Customer Deleted



The screenshot shows a web browser window with the title "Loan Admin Management". The address bar displays "localhost:3000/customers". The browser's tab bar includes several open tabs, such as "DSA Cracker Sheet...", "Programming - Inte...", "GitHub", "Crio Projects Hub", "Dynamic Program...", "10 Machine Learn...", "Top 5 Data Science...", "Practice | Geeksfor...", "Resources to maste...", and "20 Min Full Body W...". The application's navigation bar contains the text "Loan Admin Management Application" and links for "Customers", "Items", "Loans", and "Logout".

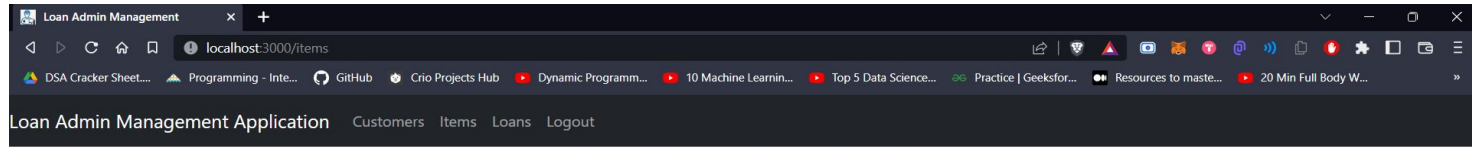
Customer Master Data Details

[Add Customer](#)

Employee Id	Employee Name	Designation	Department	Gender	Birth Date	Joining Date	Actions
E0001	John Doe	Lead Software Engineer	DTI	M	2022-11-07	2022-11-24	Update Delete

A confirmation message box is displayed at the bottom of the screen, stating "Customer data deleted" with a yellow warning icon and a close button. The Windows taskbar at the bottom shows the system clock as 10:27 PM on 11/9/2022, along with language and connectivity icons.

Items Master Data

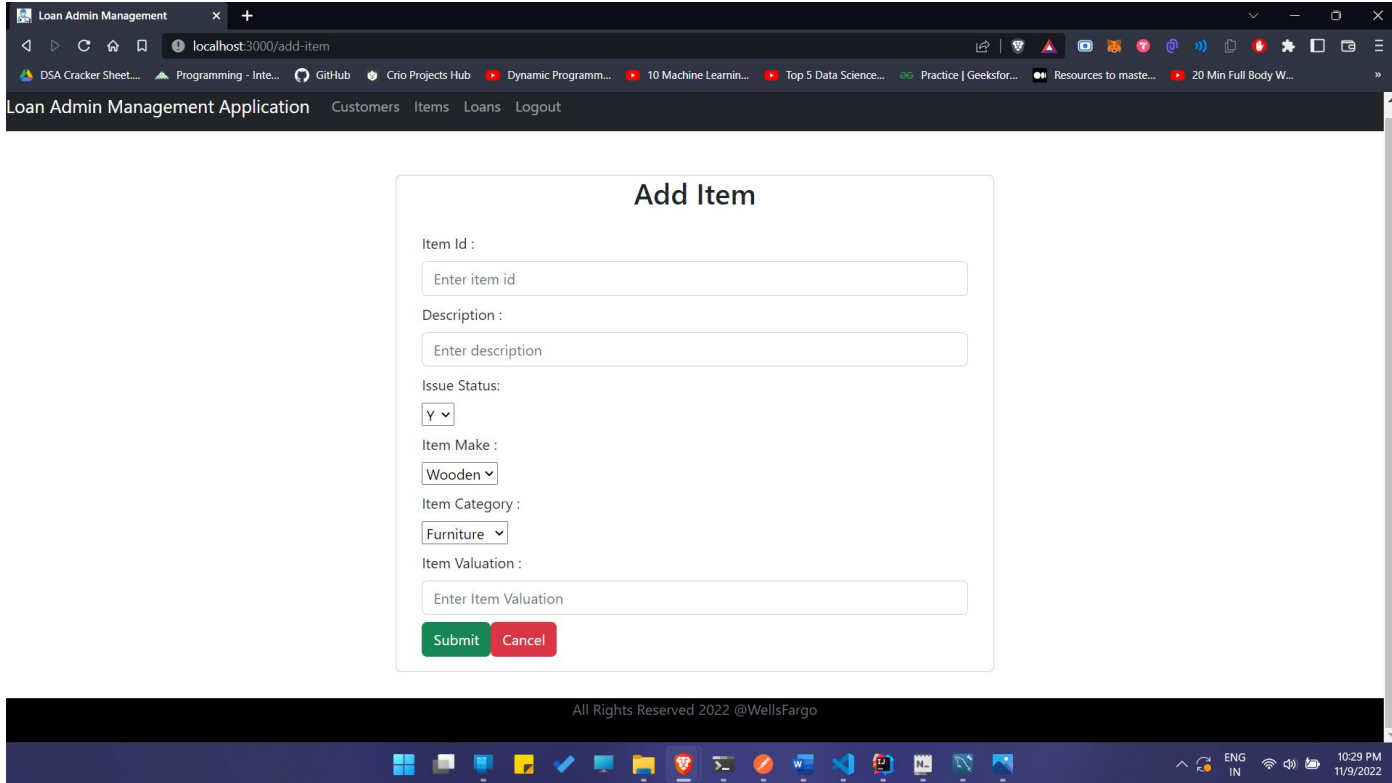


Item Master Data Details

[Add Item](#)

Item Id	Description	Issue Status	Item Make	Item Category	Item Valuation	Actions
I0001	Teak Wood	Y	Wooden	Furniture	50000	Update Delete
I0002	China Wood	Y	Wooden	crockery	20000	Update Delete
I0003	Glassware	Y	glass	crockery	100000	Update Delete

Add Item



Loan Admin Management Application Customers Items Loans Logout

Add Item

Item Id :

Description :

Issue Status:

Item Make :

Item Category :

Item Valuation :

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Loan Master Data

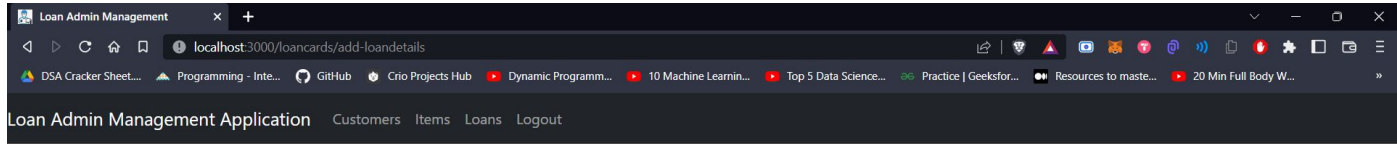


Loan Master Data Details

[Add](#)

Loan id	Loan Type	Duration	Actions	
L0001	Furniture	3	Update	Delete
L0002	Furniture	3	Update	Delete
L0004	Car	3	Update	Delete

Add Loan Data



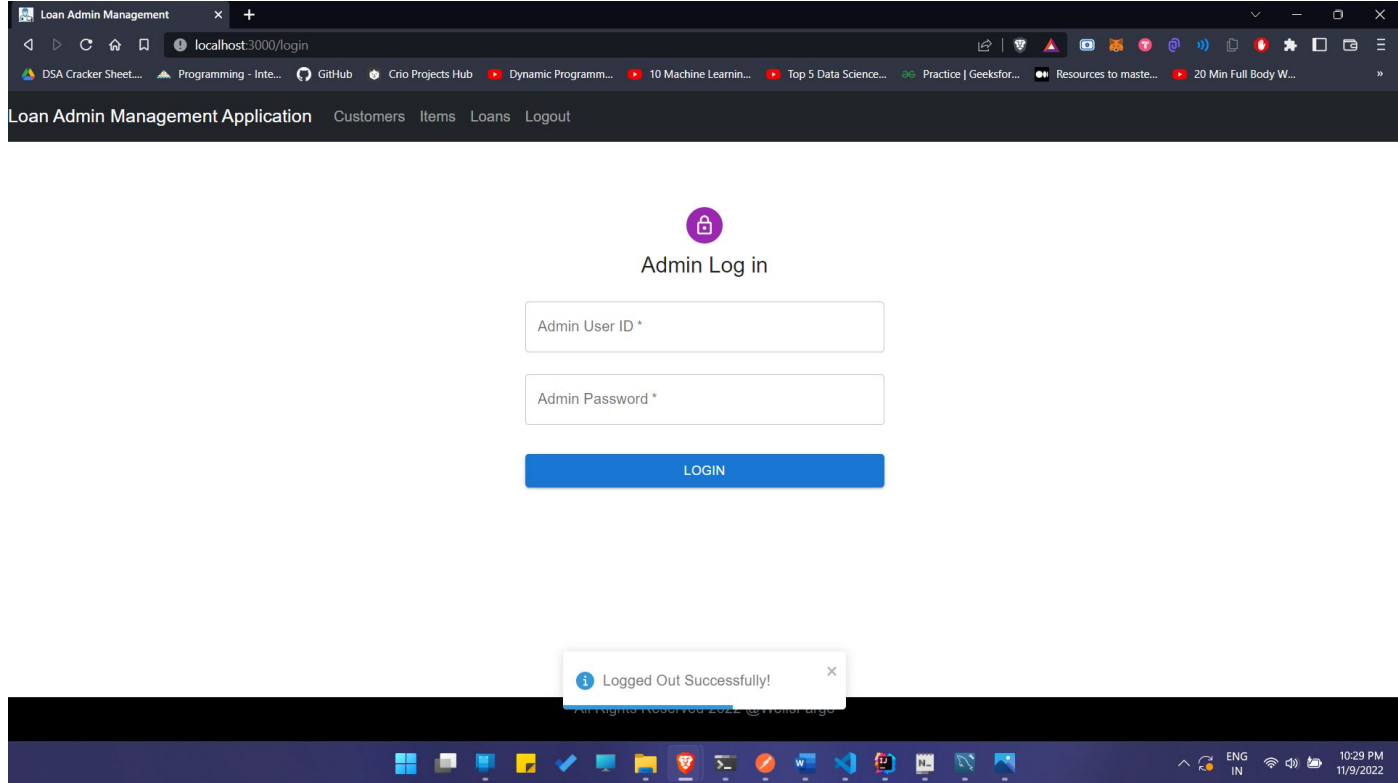
Loan Card Master data Details

Loan id:

Loan Type: Furniture ▾

Duration:

Logout



Thank you!