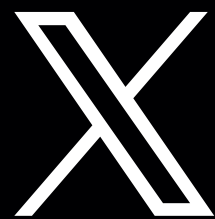


The background of the entire image is a dark, moody photograph of two hands shaking over a laptop. Overlaid on this are several graphic elements: a large white 'X' on the left, a teal wireframe sphere in the center, a grey gear and circuit icon in the top right, and a grey network diagram in the bottom left.

# X

# FARGO LOANS

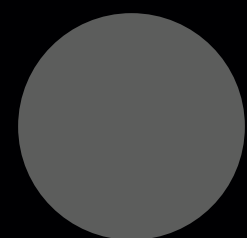
A B A N K I N G   A P P L I C A T I O N



# INTRODUCTION

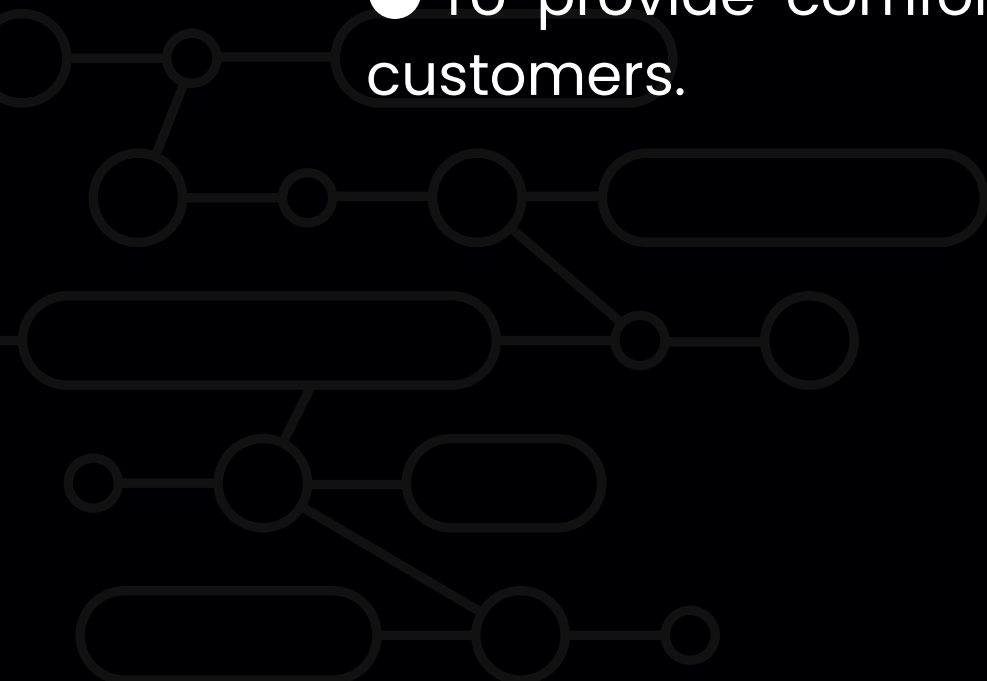
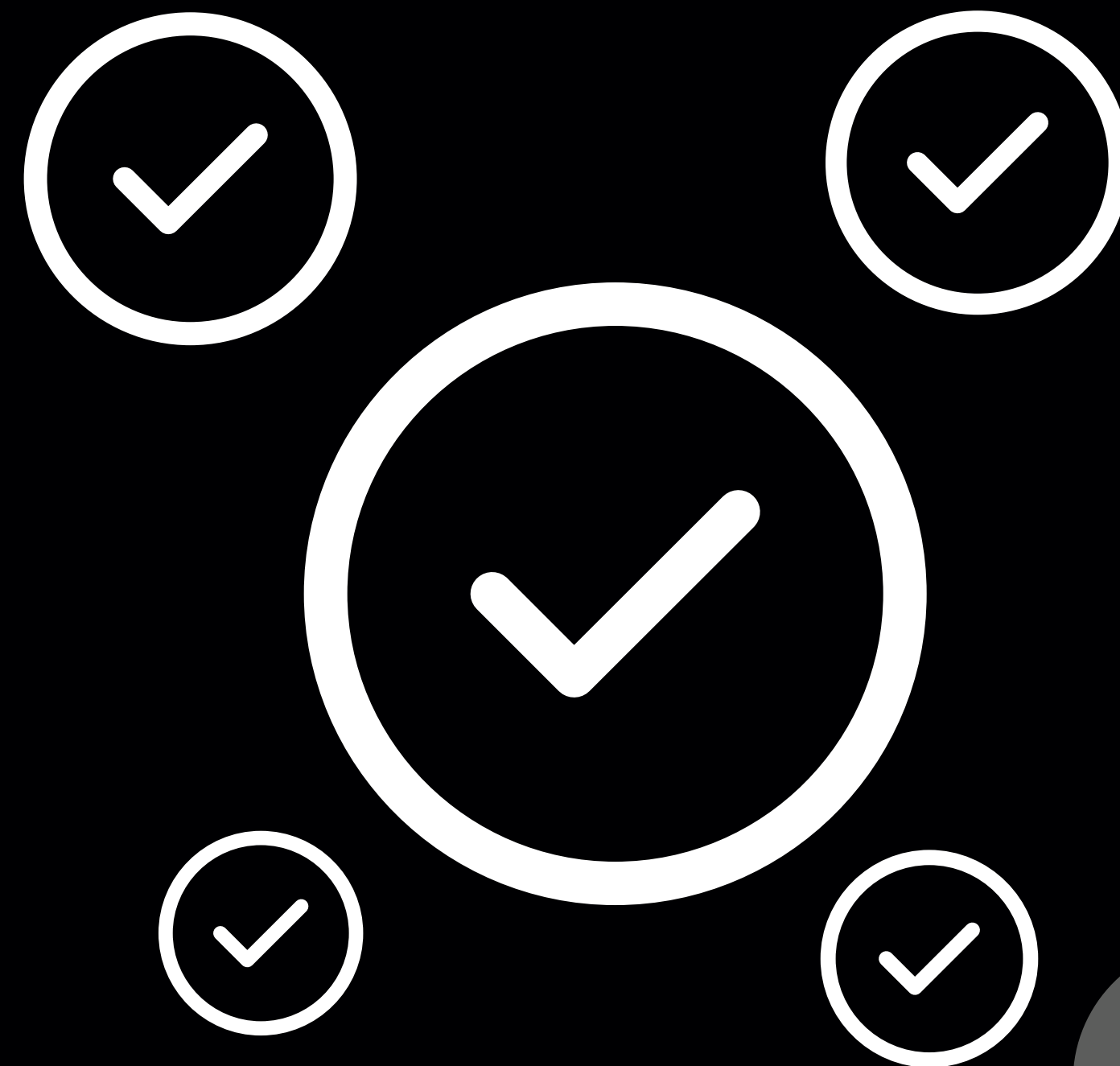
- The "Online Banking Portal" has been developed to overcome the problems in the existing manual Banking system.
- This software is built to reduce or eliminate the hardships faced while using the existing system.
- Moreover, this system is designed for the particular need of the company to carry out operations smoothly and effectively.
- The application is straightforward which helps the users to update the information while creating and using their accounts.
- It also provides an error message when the user enters invalid data.
- No formal knowledge is needed for the user to use this system. Thus it proves that the portal is user-friendly and can lead to error free, secure, reliable and fast Banking.





## OBJECTIVES

- To create a Remote banking platform where the customers can update their information,
- Check their balance and transact money to or from their accounts.
- The Application calculates the Balance of the customer after every transaction.
- To provide comfortable and User-friendly experience to the customers.





# FUNCTIONALITIES OF THE PROJECT

**01**

**Register and Logging in the Bank Accounts**

**02**

**Transaction Details and Monitoring by the Admin**

**03**

**Online Transactions**

**04**

**Automatic Balance updates.**

**05**

**Tracking and Displaying the user information.**

**06**

**Updating the user information.**



# SYSTEM REQUIREMENTS

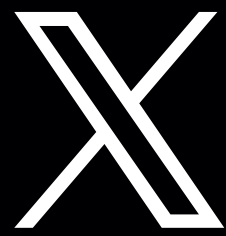
## Software

- JDK 1.8
- Tomcat Apache Server
- Eclipse
- MySQL Version 5.5

## Hardware

- Memory- 4GB/ Above
- Storage- 256 /Above

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud



# TECH STACK



## React

React is a JavaScript library for building efficient and dynamic user interfaces through a component-based approach

## SpringBoot

Spring Boot is an open-source, microservice-based Java web framework offered by Spring, particularly useful for software engineers developing web apps and microservices.

## REST API

A REST API is an API that conforms to the design principles of the REST, or representational state transfer architectural style.

## SQL Database

SQL (Structured Query Language) is a specialized language for managing databases, enabling efficient data retrieval, storage, and manipulation for diverse applications.

## POSTMAN

Entity Framework is a Microsoft technology simplifying database interaction by letting developers use .NET objects, enhancing data access and manipulation in applications.

# METHODOLOGIES & PRINCIPLES

## 6S PRINCIPLES



### Scalability

Using SQL for vertical scaling and using 3 tier architecture.



### Stability;

We are using REST API and react which has a large community and has long long-term support and our product has been tested and proven stable across multiple devices and browsers.



### Speed

Using optimal algorithms for all the functionalities (i.e. API calls, routing, database queries, tc)



### Skills

Development of this project involves a large variety of skills including computer science fundamentals, software development, designing, frontend and backend.



### Security

We are using JSON web token-based authorization to protect all the routes from unwanted access.



### Satisfaction

We aim to provide a complete web-based banking solution from a bank admin perspective.



## Database Schema

We use SQL server as our database. In springboot we use, data-jpa for accessing the databse. The following schemas are used:

Employee Table
Id*
Name
password
department
designation
doj
dob

Item Table
ItemId*
Category
Description

Loan Table
Id*
Category
Duration In Years

Issue Table
Id*
Empld*
LoanId*
ItemId*
item Make
item value
issue Status
issue Date





# PROJECT SCREENSHOTS





## **Login (Authentication / Authorization)**

For authentication, we use JWT token. When a user logs in using email, password, a JWT token is returned. That token is sent by the user in the header in each api requests. The token has an expiry of 10 mins.

Each JWT token is encoded, using the username and the role of the user. This information is stored in the backend database. Currently only the admin can call the api's except the login api so the database contains the credentials of each admin. When a user sends the JWT token in any api requests, the token is decoded in the backend using a secret key stored in the backend to get the email and role of the user. This role is checked to see if the user has sufficient permission to call the respective api.



# LOGIN PAGE

FargoLoans

Home

Login

Register

About Us

Search

Search

Employee Login

Email

Password

Login



# ADD EMPLOYEE

## Add Employee

Mahak Chhajer

Your Name

12-12-2000

Date of Birth

12-12-2023

Date of Joining

CT

Department

pa

Designation

Admin

☐ Yes ☒ No

\*\*\*\*\*

Default Password

A colorful illustration of a person with blue skin and yellow hair, wearing a green shirt and blue pants, carrying a large stack of colorful geometric shapes (a yellow circle, a blue circle, a red circle, a green circle, a yellow triangle, a blue triangle, a red triangle, a green triangle, a yellow square, a blue square, a red square, a green square) on their back. The person is walking towards the right. There is a speech bubble with two horizontal lines above the person's head. The background is white with some small green plants and a yellow sun.

Activat

Go to Set



# ADD LOAN CARD


## Add Loan Card

Furniture

12

Duration

Add Data

A colorful illustration of a person with blue skin and yellow hair, wearing a green shirt and blue pants, sitting on a large blue number 12. The person is holding a yellow star and a blue star. The background is white with some small plants and a speech bubble.

Activate Windows  
Go to Settings to activate Windows



# VIEW LOAN CARDS

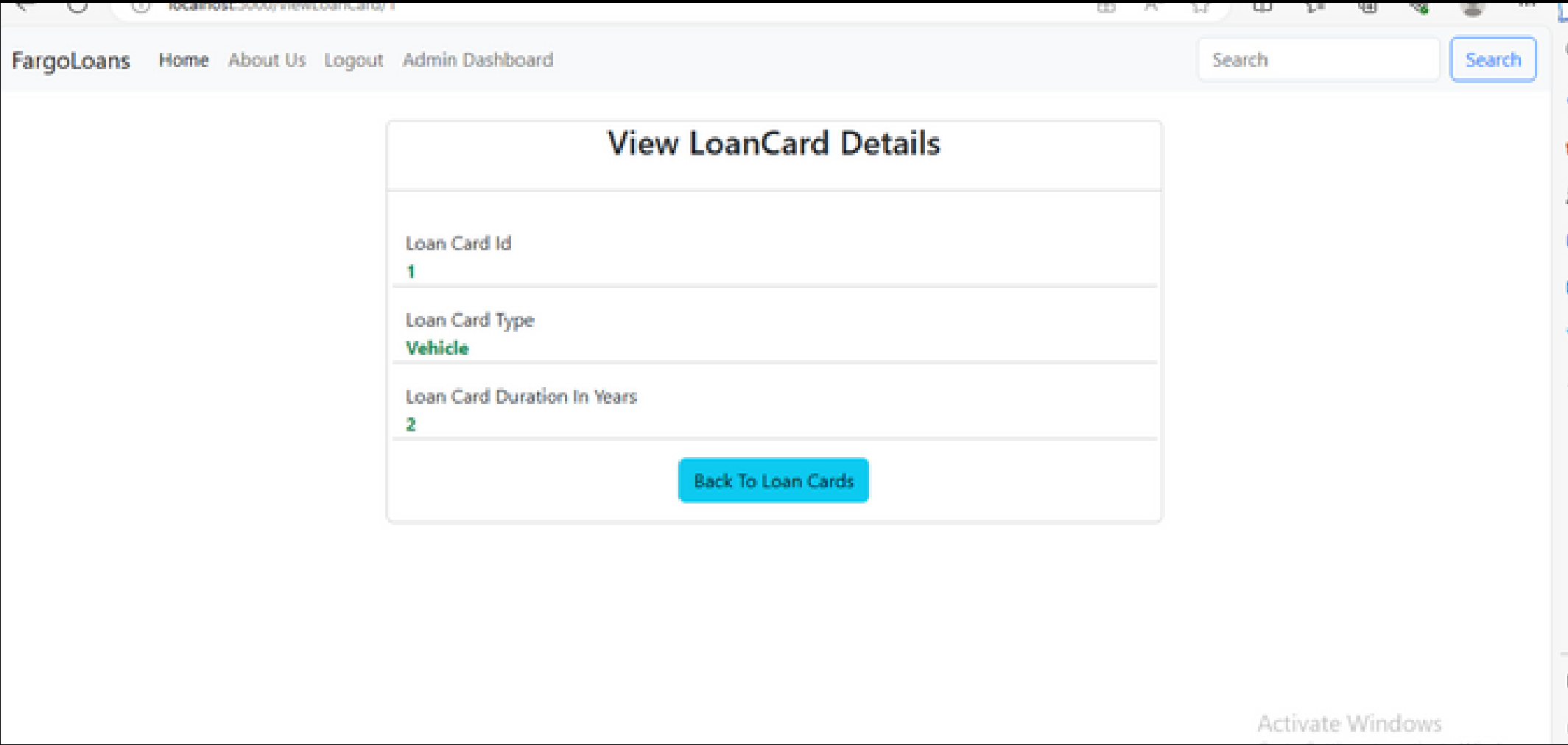
## Loan Card List

Add Loan Card

Loan Id	Loan Type	Loan Duration In Years	
1	Vehicle	2	<div><div></div><div></div><div></div></div>
2	Furniture	12	<div><div></div><div></div><div></div></div>



# VIEW LOAN CARDS





# UPDATE LOAN CARDS

## Update Loan Card

Loan Type

3

Duration

Update

A colorful illustration of a person with blue skin and yellow hair, wearing a green shirt and blue pants, balancing a stack of various colorful geometric shapes (a yellow circle, a blue circle, a red circle, a green circle, a yellow star, and a blue star) on a blue bar. The person is holding a blue briefcase and has a speech bubble above their head.

Activate Windows  
Go to Settings to activate Windows





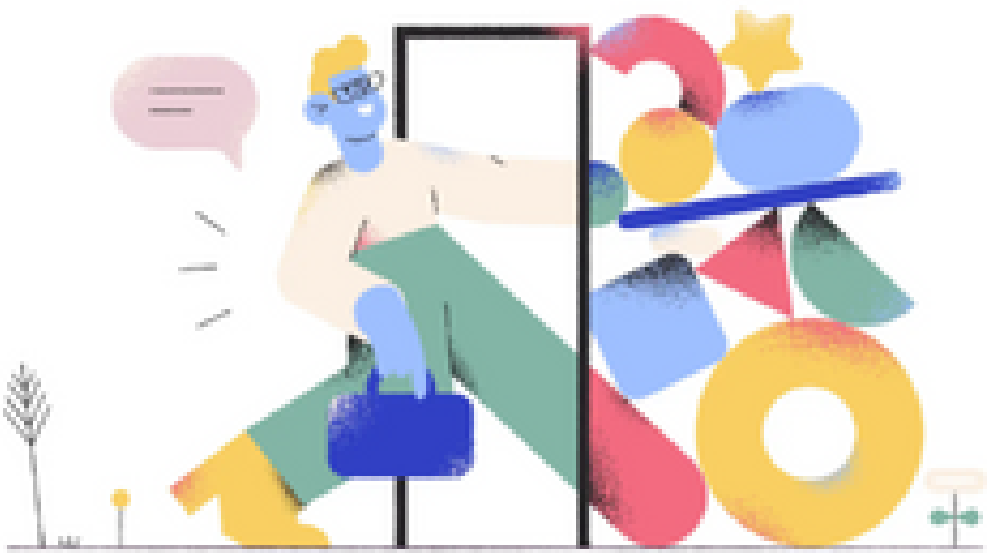
# ADD ITEM

## Add Item Card

Item Category ▼

Item Description

Add Data





# ITEM MASTER

FargoLoans

Home

About Us

Logout

Admin Dashboard

Search

Item List

Add Item

Item ID	Item Category	Item Description	
1	Electronics	Iphone	<div><div></div><div></div><div></div></div>
2	Furniture	Chair	<div><div></div><div></div><div></div></div>
3	Furniture	Table	<div><div></div><div></div><div></div></div>



# EMPLOYEE HOMEPAGE

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## Fargo Loans

[View Loans](#) [Apply for Loans](#) [View Items Purchased](#)

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# EMPLOYEE APPLY FOR LOAN

Apply For Loan

Category

Furniture

Duration

12

Item Description

Chair

Chair

Table

item value

10000

Item Make

Wooden

Apply

A colorful illustration of a person with blue skin and yellow hair, wearing a green shirt and blue pants, sitting on a blue chair. A speech bubble with two horizontal lines is next to them. To the right is a stack of colorful geometric shapes: a yellow circle, a blue circle, a red circle, a green circle, and a yellow star.

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# ADMIN ACCEPTS/ REJECTS LOAN

FargoLoans

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Search

Search

Review Loans

Employee Id	Employee Name	Item Make	Item Value	Loan Type	Duration In Years	
2	mann	Wooden	10000	Furniture	12	<div><div></div><div></div></div>
2	mann	Glass	30000	Furniture	12	<div><div></div><div></div></div>

Activate Windows

Go to Settings to activate Windows



# EMPLOYEE VIEW ALL LOANS

FargoLoans

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Search

Search

Loan Applied List

Loan Id	Loan Type	Loan Duration In Years	Loan Amount	Loan Issue Status
2	Furniture	12	10000	ACCEPTED
2	Furniture	12	30000	WAITING

Activate Windows

Go to Settings to activate Windows.



# EMPLOYEE VIEW ITEMS

React App

React App

+

localhost:3000/empViewItems

← ↻ 🔒

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FargoLoans

Home

About Us

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Search

Item Purchased List

Item Id	Item Category	Item Description	Item Value	Loan Issue Status
2	Furniture	Chair	10000	ACCEPTED
3	Furniture	Table	30000	ACCEPTED



# MEET OUR TEAM

01

MANN DOSHI

02

ARYAN  
KHARBANDA

03

MAHAK  
CHHAJER

04

SIDDHESH  
PATIL

Ads

**THANK YOU**

**Are there any Questions?**

