

CS 641: Mobile Web Content Development – Fall 2023 71435

Group 2

Presented:

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Cashback Calculator Project

This project is a cashback calculator implemented using React Native for the frontend and Firebase for backend services.

Overview

The cashback calculator application allows users to calculate rewards based on their expenditure and store their card details securely. It utilizes Firebase for authentication and Firestore for storing user-related information and card details.

Prerequisites

Before running the project, ensure you have the following installed:

- Node.js and npm
- React Native CLI
- Firebase Account

Firebase Setup

1. **Create Firebase Project**

- Go to the [Firebase Console](<https://console.firebase.google.com/>) and create a new project.

2. **Firebase Configuration Setup**

- Obtain your Firebase configuration details (API keys, authDomain, etc.) from the Firebase console.

3. **Set Up Authentication**

- Enable Firebase Authentication (email/password) in the Firebase console.

4. **Set Up Firestore**

- Enable Firestore in the Firebase console to use it as the database.

Project Setup

1. **Clone the Repository**

```
``bash
git clone https://github.com/your-username/cashback-calculator.git
cd cashback-calculator
```

Install Dependencies

npm install

Your Dependencies should include:

```
"@firebase/auth": "^1.3.2",
"@react-native-async-storage/async-storage": "^1.18.2",
"@react-native-firebase/app": "^18.6.0",
"@react-native-firebase/auth": "^18.6.0",
"@react-navigation/native": "^6.1.9",
"@react-navigation/native-stack": "^6.9.16",
"@react-navigation/stack": "^6.3.20",
"@react-navigation/web": "^1.0.0-alpha.9",
"expo": "~49.0.15",
"expo-status-bar": "~1.6.0",
"firebase": "^10.5.2",
"metro-core": "^0.80.1",
"react": "18.2.0",
"react-native": "0.72.6",
"react-native-linear-gradient": "^2.8.3",
"react-native-vector-icons": "^10.0.1",
"react-native-web": "^0.19.9",
"react-navigation": "^4.4.4",
"react-navigation-stack": "^2.10.4",
"react-navigation-web": "^0.0.0",
"@expo/webpack-config": "^19.0.0"
```

Configuration Setup

Create a .env file at the project root and add your Firebase configuration details.

```
API_KEY=your_api_key
AUTH_DOMAIN=your_auth_domain
DATABASE_URL=your_database_url
PROJECT_ID=your_project_id
STORAGE_BUCKET=your_storage_bucket
```

MESSAGING_SENDER_ID=your_sender_id
APP_ID=your_app_id

Run the Application:

npx expo or expo start