



## **Maintenance Guide for SpendSmart Application**

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## Purpose:

The Maintenance Guide for SpendSmart aims to facilitate the continued usage of the application post-completion. It includes instructions for implementing changes, updates, and improvements to ensure the longevity and effectiveness of the system.

## Operating Environment:

SpendSmart comprises two main components: SpendSmartServer and SpendSmartClient. SpendSmartServer serves as the backend, developed using Node.js and Express, and connects to a MongoDB database. SpendSmartClient is the frontend, built using React Native with Expo.

## Installation Instructions:

1. **Clone Repositories:** Start by cloning the SpendSmartServer and SpendSmartClient repositories from GitHub. Open your command line interface and navigate to the desired directory where you want to clone the repositories. Use the following commands:

For SpendSmartClient:

```
git clone https://github.com/Wael0tman211/SpendSmartClient.git
```

For SpendSmartServer:

```
git clone https://github.com/Wael0tman211/SpendSmartServer.git
```

2. **Install Dependencies:** Once the repositories are cloned, navigate into each directory (SpendSmartServer and SpendSmartClient) using your command line interface. Then, install the required dependencies using npm (Node Package Manager). Run the following commands for each repository:

```
cd SpendSmartServer
npm install

cd SpendSmartClient
npm install
```

3. **Start the Servers:** After installing dependencies, start the servers for both the backend and frontend. Run the following command in each repository's directory:

```
npm start
```

4. **QR Code Scanning:** When you start the SpendSmartClient, a QR code will be generated in your command line interface. To launch the application on your smartphone, you need to scan this QR code using the Expo Client app.

## Requirements:

- **Node.js and npm:** Ensure that Node.js and npm are installed on your system. If not, you can download and install them from the official Node.js website (<https://nodejs.org/>).
- **Expo Client App:** Install the Expo Client app on your smartphone from the respective app store. You can find it on the App Store for iOS devices or the Google Play Store for Android devices.
- **Expo CLI:** If you haven't installed the Expo CLI globally on your system, you can do so using npm. Open your command line interface and run the following command:

```
npm install -g expo-cli
```

## Compatibility:

SpendSmart is compatible with both iOS and Android devices. Users can access the application by scanning the QR code generated during the startup process using the Expo Client app on their smartphones.

## Additional Notes:

- make sure you have the necessary credentials and connection details for your MongoDB instance.
- Updates: Regularly check for updates and improvements to both SpendSmartServer and SpendSmartClient repositories on GitHub to stay up-to-date with the latest features and enhancements.
- Support: If you encounter any issues or have questions, refer to the documentation provided in the repositories or reach out to the project maintainers for assistance.

By following these detailed instructions, users can easily set up and maintain the SpendSmart application for continued usage and enjoyment.