MDN Mobile App – Project Specification for Cursor Gencode

1. Project Overview

Objective: Build a React Native mobile app (Android & iOS) that provides seamless access to MDN Web Docs using WebView. The app will allow users to navigate, bookmark, and save articles for offline reading while supporting a dark mode by default. The app's font size will follow the device/system settings.
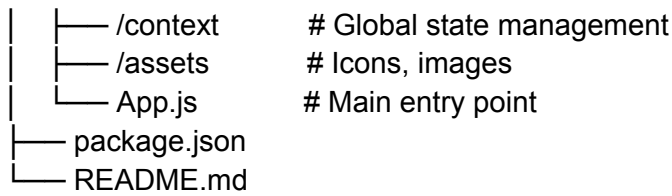
2. Features

2.1 Core Features

- **WebView-based MDN Display** (Using `react-native-webview`)
- **Navigation Controls** (Back, Forward, Refresh)
- **Search MDN Content**
- **Bookmark Articles** (Store URLs locally)
- **Save Articles for Offline Reading** (Cache selected pages)
- **Dark Mode by Default** (UI elements will follow a dark theme)
- **Font Size Based on Device/System Settings**

3. Tech Stack

- **Framework:** React Native (Expo or CLI)
- **Navigation:** React Navigation
- **WebView:** react-native-webview
- **Storage:** AsyncStorage (for bookmarks), react-native-fs (for offline content)
- **State Management:** Context API or Redux
- **Dark Mode:** react-native-appearance or system-based styling

4. Folder Structure

```
/MDNApp
├── /src
│   ├── /components     # Reusable UI components
│   ├── /screens        # Home, Bookmarks, Saved Articles, Settings
│   ├── /services       # Storage & WebView utilities
```

```
|      ├──── /context        # Global state management
|      ├──── /assets         # Icons, images
|      └──── App.js          # Main entry point
├──── package.json
└──── README.md
```

5. UI Screens & Functionality

5.1 Screens

1. **Home Screen (WebView)**

   ○ Load MDN Web Docs (`https://developer.mozilla.org/`)
   ○ Navigation buttons (Back, Forward, Refresh)
   ○ Floating action button (FAB) for bookmarking/saving
   ○ Dark mode applied by default

2. **Bookmarks Screen**

   ○ List of saved MDN article URLs
   ○ Click to open in WebView

3. **Saved Articles Screen**

   ○ List of cached articles
   ○ Open in WebView (offline mode)

4. **Settings Screen**

   ○ Clear saved articles
   ○ Dark mode remains enabled by default (no toggle)

6. Development Plan (Stepwise Implementation)

Step 1: WebView Setup (1-2 Days)

● Initialize React Native project
● Install and configure `react-native-webview`
● Load MDN site in WebView

Step 2: Navigation & UI (2-3 Days)

● Add bottom navigation (React Navigation)
● Implement WebView navigation controls

- Apply dark mode UI styling

Step 3: Bookmarking System (3-4 Days)

- Implement AsyncStorage-based bookmarking
- Add a Bookmark button

Step 4: Offline Reading (1 Week)

- Implement article saving using `react-native-fs`
- Display saved content in offline mode

Step 5: UI Enhancements & Performance Optimization (1 Week)

- Ensure font size follows device/system settings
- Optimize performance

7. Deployment & Testing

- Debug using Expo/React Native Debugger
- Test on Android & iOS
- Package for Play Store & App Store