Prankster Mobile Application

A React Native App with Appwrite Authentication

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Abstract

Prankster is a mobile application designed for entertainment, allowing users to securely log in and explore prank-related content. Built using React Native and Expo Router, the app features user authentication powered by Appwrite, a secure backend-as-a-service. This document outlines the project's architecture, functionality, and technology stack.

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1. Introduction

Prankster is a cross-platform mobile application that introduces users to a fun, lighthearted platform to share and explore pranks. The main aim is to provide an intuitive, secure, and scalable environment for users using modern frontend and backend technologies.

2. Technology Stack

- React Native (v0.76.9) Cross-platform mobile development.
- Expo Router (v4.0.20) File-based navigation system.
- Appwrite (v17.0.2) Open-source backend for authentication and user management.
- TypeScript (v5.3.3) Strongly typed JavaScript for safer development.

3. Features

- 1. User Authentication: Secure sign-up and login using Appwrite.
- 2. Navigation: Smooth screen transitions using Expo Router.
- 3. UI/UX: Clean, responsive layout built with React Native's styling system.
- 4. **Modular Structure:** Screens and services separated into logical directories for scalability.

4. Appwrite Integration

To integrate Appwrite:

- Register at Appwrite Cloud.
- Create a new project and platform.
- Enable Email & Password authentication.
- Replace the endpoint and project ID in appwrite.ts.

5. Screens Overview

5.1. Login Screen

Allows users to log in with email and password. If authenticated, users are navigated to the Home screen.

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5.2. Sign Up Screen

Registers new users using Appwrite's create() API and stores the user data securely.

5.3. Home Screen

Initial landing screen post-login.

6. Conclusion

Prankster is a scalable foundation for a fun-oriented mobile app. By leveraging modern frameworks and secure backend services, it ensures a smooth user experience with the potential for future expansion.