TailWaggr Installation Manual

Introduction

TailWaggr is a comprehensive pet management application designed to enhance the interaction between pet owners and their furry friends. Built using Flutter, it offers a seamless cross-platform experience, ensuring functionality across various devices. The backend is powered by Firebase, providing real-time data synchronization, authentication, and cloud storage capabilities. This manual guides you through setting up TailWaggr on your system, including the installation of necessary software and running the application.

Prerequisites

Before installing TailWaggr, ensure the following software is installed on your system:
- **Git**: For cloning the repository. (Version: 2.30.0 or later)
- **Flutter SDK**: The core framework for running and building Flutter applications. (Version: 2.10.0 or later)
- **Dart SDK**: Required for Flutter development. (Version: 2.16.0 or later)
- **Android Studio and Visual Studio or Visual Studio Code**: Recommended IDEs for Flutter development.
    - **Android Studio**: (Version: 2021.1.1 or later)
    - **Visual Studio**: (Version: 17.10.0 or later) (needed for android development)
    - **Visual Studio Code**: (Version: 1.60.0 or later)
- **Firebase CLI**: For deploying the application. (Version: 10.0.1 or later)

Installing Prerequisites

1. **Git**: Download and install Git from https://git-scm.com/.
2. **Flutter SDK**: Follow the installation guide on https://flutter.dev/docs/get-started/install.

3. **Dart SDK**: Usually comes with the Flutter SDK, but if needed, follow https://dart.dev/get-dart.
4. **IDE (Android Studio/VS Code)**:
    - Android Studio: https://developer.android.com/studio
    - Visual Studio: https://visualstudio.microsoft.com/
    - Visual Studio Code: https://code.visualstudio.com/
5. **Firebase CLI**: Install the Firebase CLI using the following command:
6. npm install -g firebase-tools

Installation

1. **Clone the TailWaggr Repository**: Open a terminal or command prompt and run the following command: git clone https://github.com/COS301-SE-2024/TailWaggr.git
2. **Navigate to the Project Directory**: cd TailWaggr/cos301_capstone
3. **Install Dependencies**: Run the following command to install the required dependencies: flutter pub get
4. **Run the Application**: To run Tailwaggr, use the following command: flutter run
5. **Deploy the Application**: Log into your firbase account (Argonauts is ours): firebase login
6. Deploy the application using the following command: firebase deploy
7. **Access the Application**: Once the application is running, you can access it on your emulator or connected device. If deploying the application, you can access it using tailwaggr.web.app.
8. **User Manual**: Refer to the User Manual for detailed instructions on using TailWaggr.