# Project Proposal: Flutter Todo-App Development

### Team Members:

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## Introduction

We propose the creation of a Todo-App utilizing Flutter, with the goal of offering users an intuitive platform to streamline task management.

## App's Reason to Exist

Our Todo-App addresses the need for a user-friendly, feature-rich task management tool. Unlike existing solutions, our app combines task management with weather information and a user profile, offering a comprehensive experience. Users can sign in anonymously or with Google, making it very accessible.

## App Features/Screens

### **Index/Login Screen:**

Users are welcomed and given sign-in options (anonymous or Google). Firebase Authentication will be used for user management and access.

### Welcome Screen/ToDos:

After signing in, users will be presented with a personalized to-do list. Users can add, edit, and remove tasks. We will (potentially) implement multi-tab functionality to move completed tasks to a "Done" tab.

### Create Todo Screen:

Users can create new to-dos with titles and descriptions. The "Add" button will add the to-do to the main to-do list page.

### Weather Screen:

We will integrate a weather API to display weather data for Montreal (by default). Users can search for other cities to update the weather information.

### Profile Screen:

Users can view their profile picture, registration date, and sign out from the app. Firebase Firestore will store user data, including profile pictures.

### Side Menu:

All screens (except login) will have a side menu for easy navigation, allowing users to access all app sections and sign out. We will likely use Flutter's Drawer widget for this functionality.

## Feasibility Analysis

We believe our team can complete this project in three weeks due to the following factors:

* **Experience:** Our team has prior experience with Flutter and Firebase, which will facilitate development.
* **Modular Approach:** We will adopt a modular approach, allowing parallel development of app sections. This approach will enhance productivity and collaboration.
* **Prioritization:** We will focus on implementing core features first, ensuring essential functionality is ready within the timeframe.

## Contextualized Wireframes

Attached to this proposal are wireframes depicting the app's user interface for each screen. These wireframes serve as a visual reference for the app's design and layout.

## Business Acumen/Entrepreneurship

We recognize the potential of our app beyond task management. We aim to enhance user retention and potentially explore monetization options, such as:

* **Freemium Model:** Introduce a free version of the app with essential features while offering premium upgrades for a subscription fee. Premium users could enjoy advanced task management options, exclusive weather data insights, and a customizable user experience.
* **Targeted Advertising:** Leverage user data (in an ethical and privacy-compliant manner) to offer targeted advertising opportunities within the app based on the kinds of tasks the users enter.
* **In-App Purchases:** Create an in-app marketplace where users can purchase task-related add-ons, themes, or productivity tools. This approach enhances user engagement and opens avenues for additional revenue.

In short, we have an opportunity to not only deliver a feature-rich task management solution but also establish sustainable revenue streams that drive the continued growth and improvement of our app.Top of Form

Conclusion  
  
In conclusion, our Todo-App project is well-structured, with a clear purpose and defined features. We are confident in its feasibility within the three-week timeline, thanks to our team's expertise and a well-planned development strategy. We will do our best to deliver a feature-rich, user-friendly Todo-App that goes beyond traditional task management.