

CROSS-PLATFORM MOBILE DEVELOPMENT

ASSIGNMENT 2

SANDU CRUCERESCU - INGMAR IMMANUEL FALK

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1 Introduction

Our concept revolves around a family/couple sharing application named "Syncup." This innovative app will facilitate users in sharing various essential aspects of their lives, including shopping lists, calendars, to-do lists, and expenses, among other features, which we'll delve into shortly.

"Syncup" derives its name from its core purpose: to synchronize daily activities and planning among users. While some of the features offered by our app may already exist individually on Google and Apple platforms, a common challenge lies in achieving seamless interoperability between these applications. Furthermore, these existing apps tend to focus on isolated functions, such as Google Calendar, whereas "Syncup" will consolidate all these individual features into a single, cross-platform application. This approach creates synergies between different aspects of users' lives, allowing, for instance, the integration of shopping lists with expense tracking.

2 Target User

3 Product Niche

Our app is designed to stand out in a pool of many management apps. There are two major platforms Google and Apple, both have management apps like GApps and Apples own applications which can be managed through a family plan. The downside of these platforms is for one apple apps do not work on Google, and in order for user to use the GApps they have to download around a dozen or so apps which in return multiplies the number of applications with the same functionality on their devices. Our app aims to reduce clutter of applications on ones device and have the same amount of functionality. Our application will also implement missing functionality from other applications to make it more intuitive and user friendly. In addition the application will be able to connect to a bank account(for example: a shared one) and display statistics on monthly payments, in addition to this different budgets can also be created which will notify the users if the threshold is about to pass.

4 Features & Functionality

4.1 Features

We will have different actors in our application, each with different features and functionality. The actors are as follows:

- Group Member
- Group Admin

Depending on their level of authorization, users will have different rights and access to the application's features.

| | User | Requirement | Goal |
|----|--------------|--------------------------|------------------------------------|
| 1 | Group Member | View Calendar | View plans and Events |
| 2 | Group Member | Edit Calender | Add/Remove/Edit plants/activies |
| 3 | Group Member | View Shopping List | View items to be bought |
| 4 | Group Member | Edit Shopping List | Add/Remove/Edit items to be bought |
| 5 | Group Member | View To-Do List | View tasks to be done |
| 6 | Group Member | Edit To-Do List | Add/Remove/Edit tasks to be done |
| 7 | Group Admin | Add/Remove Group Mem-ber | Add/Remove Group Mem-ber |
| 8 | Group Admin | Add/Remove Group Admin | Add/Remove Group Admin |
| 9 | Group Admin | Manage Permissions | Manage Permissions |
| 10 | Group Admin | Assign Budets | Assign Budets/Allowance |

4.2 Requirements

4.2.1 Hardware Requirements

Android or IOS device. Screen size of 6.1 inches or larger.

4.2.2 Software Requirements

Android 10 and IOS 13.0 or later.

5 Development Plan