Calendar Application Requirements

### **Objective:**

To develop a user-friendly calendar application that allows users to manage events, appointments, reminders, and other calendar-related tasks effectively. The application should integrate seamlessly across devices and provide features that enhance productivity.

### **Core Features:**

* Create, Update, Read, and Delete the events.
* Set Event Details (title, description, location, time).
* Recurring events with customizable frequency (daily, weekly, monthly, yearly).
* Download and upload calendar events.
* Public events on a shared database, and private events stored locally

### **Challenge:**

* Shared calendars for enterprises, teams or families.
* The events, appointments, reminders and other calendar items must have a scope of **public** or **private**.

**Functional Requirements:**

* **Must be able to upload and download files.**
  + Private events can be downloaded to a file **Should have**
  + **.ics** file format for sharing private files
* **Basic calendar functions must be applicable, adding, take down, events.** 
  + Google calendar type model.  **Must have**
* Easy to use visuals and functionality **Should have**
* Creating, deleting, and editing events **Must have**
* Making events private or public. **Should have**
* Apply labels to events and filter by them, colour code labels **Could have**
* **Calendar should be able to filter by day/month/week**
  + A drop-down menu to select the view mode **Should have**
  + Changing the visual display for the user. **Must have**
* **Collaborative calendar. Multiple people should be able to access one calendar with public and private events. Profiles, accounts.**
  + Owner-only edit access **Should have**
  + Each client has a unique ID to identify the owner of a public event **Should have**
  + Public events are stored in the database **Should have**
  + Public/Private events **Must have**
  + Refresh button to re-grab database for public events **Could have**

**Non-Functional Requirements**

* Easy to use
  + Should be intuitive for a first-time user to add and modify events
* Portability
* Security
  + Stored on computer
  + The database is easily connectable
* Maintainability
* Reliability
* Scalability
* Performance
* Reusability
* Flexibility

### **Key stakeholders:**

* **Tania Shimabukuro,** *CEO, Global Technology*
* **Eric Rapos,** *Director, Global Technology*

**Must-Have**

* Public/Private events
* Changing the visual display for the user
* Add, Edit, Delete events
* Visuals similar to google calendar

**Should-Have**

* Download/Upload files in .ICS format
* Public events are stored in a collective database
* 3 view modes (monthly, weekly, daily)

**Could-Have**

* Password and login system
* Team creating software

**Can’t-Have**

* Paid server
* Real time updates from other users.