Requirements Document for my Calendar Application

1. **Introduction**

The purpose of this document is to outline the functional and non-functional requirements for the development of a Windows-based calendar application. The application will provide users with a comprehensive tool for scheduling, reminders, and event management. Calendars can help users with managing their time

1. **Functional Requirements**
   1. **User Interface**

**The application should provide a user with an intuitive and modern user interface, that can have basic customisation options such as dark mode.**

* 1. **Event Management**
* **Users will be able to create, edit and delete events**
* **Option toolbox for creating events such as time/date and recurrence**
* **Categorisation of an event e.g Birthdays category could contain all birthday you place**
  1. **Reminders and Notifications**
* **Remind for upcoming events**
* **Customise reminders**
* **Send notifs through pop-ups and emails**
  1. **Login and Synchronisation**
* **Imports general data from the world to synchronise**
* **Able to support synchronisation across multiple devices**
  1. **Database and server handling**
* **Stores device data, normalised tables for each user and events**
* **Server handles notifications cross platform as well as synchronisation, and import of another user’s calendar.**

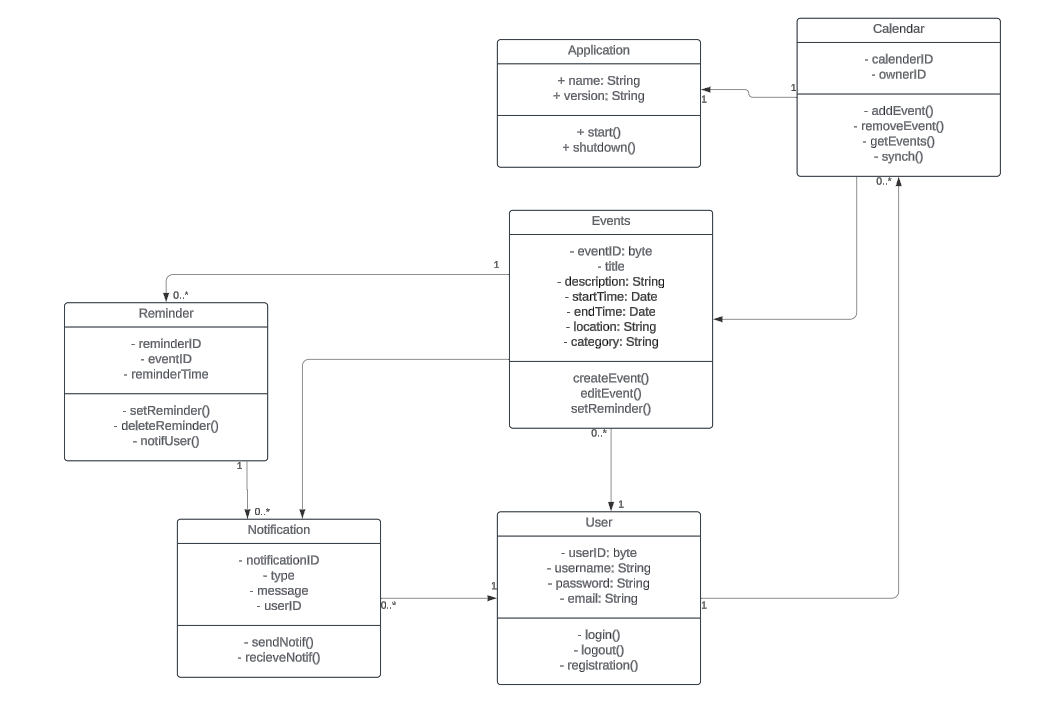
1. **Non-Functional Requirements**
   1. **Performance**

* **Load speed should be fast**
* **Should handle a large amount of events without decrease in performance**
* **Server availability during application start**
  1. **Usability**
* **User-friendly and accessible to all users**
* **Helpful documentation**
  1. **Reliability**

**Recovers well from errors and ensuring data integrity**

* 1. **Maintainability**
* **Molecular architecture to help with updates and maintenance**
* **Logging and diagnostics to help developers**
  1. **Security**
* **User authentication**
* **Encryption of user data**

**UML Class diagram**

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