**2.2 Design Requirements**

**2.2.1 Functions**

The functions of the EduTrack project are:

* **Track Assignments**: Allows users to input and monitor assignment due dates.
* **Schedule Study Sessions**: Enables users to plan and allocate time for study sessions.
* **Set Reminders**: Provides notifications and reminders for upcoming deadlines and tasks.
* **Monitor Progress**: Tracks academic performance and progress over time.
* **Organize Courses**: Allows users to add and manage courses and associated tasks.
* **Generate Reports**: Creates summaries and reports on study habits and performance.
* **Sync Calendars**: Integrates with external calendars to sync important dates.
* **Manage Tasks**: Enables users to create, update, and delete tasks related to their courses.

**2.2.2 Objectives**

The objectives of the EduTrack project are:

* **User-Friendly**: The application should be intuitive and easy to use for students.
* **Efficient**: The application should perform its functions quickly and without lag.
* **Reliable**: The application should function correctly and consistently without crashing.
* **Customizable**: The application should allow users to tailor it to their specific needs.
* **Engaging**: The application should have a visually appealing and interactive interface.
* **Informative**: The application should provide clear and useful information to help students manage their academic responsibilities.
* **Secure**: The application should protect user data and privacy.

**2.2.3 Constraints**

The constraints of the EduTrack project are:

* **Platform Compatibility**: The application must be compatible with major operating systems (Windows, macOS, Linux).
* **Data Security**: The application must use encryption to secure user data.
* **Performance**: The application must load and perform tasks within a specified time frame (e.g., less than 2 seconds for most operations).
* **Usability**: The application must pass usability testing with a score above a predetermined threshold.
* **Compliance**: The application must comply with relevant educational and data protection regulations.
* **Accessibility**: The application must meet accessibility standards to be usable by students with disabilities.
* **Scalability**: The application must handle a growing number of users without performance degradation.
* **Maintenance**: The application must be maintainable and allow for easy updates and bug fixes.