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.