Project Summary: Calendar Management Application

Objective:

The goal of this project is to develop a calendar application with various interactive features, including the ability to manage notes, reminders, and friend-related information in a calendar format. The project will involve implementing commands for adding, deleting, and displaying notes, along with advanced features like reminders and validation.

Features:

1. User Interface (UI):

   - A calendar is displayed with different colors for past, present, and future days.

   - Customizable color palettes are available for user preference.

2. Commands:

   - Add Note: Allows the user to add a note to a specific day.

   - Add Repetitive Note: Allows the user to add notes for a specific day every week.

   - Delete Note: Enables deletion of a note for a specific day.

   - Flag: Marks a day with a unique color.

   - Unflag: Removes the flag from a day.

   - Show: Displays a note for a specific day.

   - Show All: Displays all notes in the calendar.

   - Save: Saves all changes made to the calendar in a text file.

   - Load: Loads saved data from a text file upon restarting the program.

   - Add Reminder: Sets a reminder with the date and time for a task.

3. Reminder System:

- Sends an HTTP GET request when the reminder time arrives.

- Sends a response with a status code to confirm the reminder.

4. Friend Management:

  - Users can add friends with their names, phone numbers, and birth dates.

  - The phone number is validated to ensure it is in the correct format.

  - A reminder is set to notify when a friend's birthday arrives.

5. API Integration:

  - A reminder API is used to send requests for both reminders and friend birthday notifications.

  - The API validates phone number formats and handles errors with status codes like 403 for invalid numbers.

6. Exit and Refresh:

  - The program can be exited with a command, and the calendar will refresh after each command execution.

Technology Used:

- Programming Language: Python

- Libraries: Not specified, but may include standard Python libraries for file handling, HTTP requests, and user interface development.