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**Name of the GUI Application:** Daily Routine Planner for Single Parents

**Purpose of the Application:** The purpose of this application is to help single parents manage their daily routines effectively by providing a user-friendly platform to schedule tasks, set reminders, and organize activities for themselves and their children. This application aims to reduce the stress associated with managing a busy schedule and ensure that both the parent and children have a structured, balanced day.

**Reasons for Creating the Application:**

1. **Time Management:** Single parents often struggle with balancing work, household chores, and their children's activities. This application will help them manage their time more effectively.
2. **Stress Reduction:** By having a clear, organized daily routine, single parents can reduce the stress associated with juggling multiple responsibilities.
3. **Improved Productivity:** A well-structured schedule can enhance productivity by ensuring that essential tasks are prioritized and completed on time.
4. **Enhanced Childcare:** The application will help parents ensure that their children's needs are met, including school activities, homework, and extracurricular activities.

**Goals for the Application:**

1. **Task Scheduling:** Provide a platform for users to schedule daily tasks and activities.
2. **Reminders and Notifications:** Implement reminders and notifications to alert users of upcoming tasks and deadlines.
3. **User-Friendly Interface:** Design an intuitive and easy-to-use interface that allows users to quickly add, edit, and delete tasks.
4. **Customization:** Allow users to customize their schedules based on their unique needs and preferences.
5. **Data Persistence:** Ensure that the data entered by users is saved and can be accessed later, even after closing the application.

**Target Audience:**

* **Age:** Single Parents
* **Gender:** All genders
* **Socioeconomic Characteristics:** Middle to upper-middle class; single parents who may be working professionals, including those with flexible work hours or those who work from home.
* **Other Characteristics:** Individuals who have primary or sole responsibility for their children, including those with school-aged children.

**Outline of the Final Python Tkinter GUI Application:**

1. **Introduction Screen:**
   * Welcome message
   * Brief overview of the application's features
2. **User Registration/Login:**
   * User registration form (name, email, password)
   * Login form for returning users
3. **Main Dashboard:**
   * Overview of today's schedule
   * Quick access to add/edit/delete tasks
   * Summary of upcoming tasks and reminders
4. **Task Management:**
   * Add New Task:
     + Task name
     + Description
     + Date and time
     + Priority level (High, Medium, Low)
     + Recurrence (daily, weekly, monthly)
   * Edit Task
   * Delete Task
5. **Reminders and Notifications:**
   * Set up reminders for tasks
   * Customize notification settings (e.g., 30 minutes before, 1 hour before)
6. **Customization Options:**
   * Personalize the dashboard (e.g., color themes, layout)
   * Set preferences for task categorization (e.g., work, home, children)
7. **Data Persistence:**
   * Save user data locally or in a database
   * Ensure data is retrievable upon next login
8. **Help and Support:**
   * FAQ section
   * Contact support for assistance
9. **Logout:**
   * Option to safely log out from the application

By following this outline, the final project will provide a comprehensive and user-friendly tool for single parents to manage their daily routines effectively.