**Project Description**

To support daily productivity, our project is a digital calendar software that includes task management and tailored recommendations. With an integrated to-do list for daily tasks and a daily routine tailored to each user's preferences and habits, this program will help users with their daily activities.

. Professionals, students, and everyone else wishing to successfully manage their daily calendar and tasks are among the intended user base. The calendar application will exploit AI algorithms that study user behavior and preferences to provide highly customized recommendations for optimum productivity. Users can prioritize tasks at different levels so they can be alerted when important due dates are approaching. Moreover, the tool will be equipped with data visualizations that enable one to track progress while also helping identify areas where time is not well managed from.

**Requirements Summary**

User Authentication: The system must support secure user authentication to protect personal data.

Personalized Recommendations: The application should use algorithms to provide personalized daily routines based on user input, habits, and preferences.

To-Do List Integration: Users must be able to create, update, and delete to-do lists, with tasks linked to specific dates and times.

User-Friendly Interface: The interface must be intuitive, allowing easy navigation and task management without a steep learning curve.

Notifications and Reminders: The system should send notifications and reminders for upcoming tasks and recommendations to ensure users stay on track.

Data Synchronization: The application should sync data across multiple devices, ensuring users have access to their schedules and tasks anywhere, anytime.

Customization Options: Users should be able to customize their calendar views (daily, weekly, monthly) and the appearance of the interface.

Analytics and Insights: Provide users with insights and analytics on their productivity patterns and task completion rates to help them improve over time.

**User Scenario:**

Throughout the day, Raphael seamlessly uses her calendar app for scheduling and the "DAY’S" app for task management. He can prioritize tasks, maintain organization, and successfully manage her personal and professional lives thanks to the integration of the two.

**Prototype Description:**

The prototype for our digital calendar software, designed to support daily productivity, integrates task management with personalized recommendations. This application is intended for professionals, students, and anyone looking to effectively manage their daily schedules and tasks.

**A screenshot of a phone

Description automatically generated**

**A screenshot of a login form

Description automatically generated**

**Home page**

**Login Page**

**A screenshot of a phone

Description automatically generatedA screenshot of a calendar

Description automatically generated**

**A screenshot of a computer

Description automatically generated**

**Home page with user inputs**

**Notifications and Search bar**

**Rationale:**

The chosen prototype was selected to address the core needs identified in our project description: integrating a digital calendar with task management and personalized recommendations to enhance productivity for a diverse user base. This approach directly aligns with the requirements to create a user-friendly, highly functional, and customizable application that leverages AI to provide tailored productivity solutions.

**Advantages:**

**Comprehensive features:**

* User Authentication: Ensures secure access to personal data.
* Personalized Recommendations: AI-driven suggestions enhance user productivity by tailoring tasks and schedules.
* To-Do List Integration: Seamlessly combines scheduling and task management.
* User-Friendly Interface: Intuitive design minimizes the learning curve and improves user adoption.
* Notifications and Reminders: Keeps users on track with timely alerts.
* Data Synchronization: Provides consistency across multiple devices.
* Customization Options: Allows users to personalize their experience, improving satisfaction.
* Analytics and Insights: Helps users track and improve productivity through detailed data.

**Enhanced User Experience:**

* The integration of AI and data visualizations creates a dynamic and responsive tool that evolves with the user's habits and needs.
* Customization and intuitive navigation cater to a wide audience, from professionals to students.

**Disadvantages:**

**Complexity of AI Implementation:**

* Developing and fine-tuning AI algorithms for personalized recommendations may require significant resources and expertise.

**User Interface Design:**

* Creating an intuitive yet comprehensive interface that includes all desired features without overwhelming the user requires careful design and usability testing.

**Device Compatibility:**

* Ensuring seamless synchronization and consistent performance across various devices and operating systems can be technically demanding.

**Changes to the requirements:**

During the development of our prototype, we did not alter any of our initial requirements or usability criteria. Our comprehensive planning ensured that the original specifications—secure user authentication, AI-driven personalized recommendations, seamless to-do list integration, an intuitive interface, notifications and reminders, data synchronization, customization options, and productivity analytics—adequately addressed the needs of our user base and project goals. The robustness of our design and clarity of our objectives meant that our prototype met all outlined criteria without the need for adjustments, ensuring a consistent and effective development process.

**Initial Evaluation Plan**

Students at Mapua Malayan Colleges Mindanao will be invited to test the prototype, with the goal of recruiting 18 participants. Following their testing session, students who consent to participate will receive a survey via Google Forms. The survey will include questions developed by the development team to assess other important factors, in addition to usability criteria based on the 10 Usability Heuristics. A Likert scale will be used in the survey to collect and evaluate feedback, enabling a thorough interpretation and assessment of the students' responses. This feedback will provide valuable insights into the effectiveness of the prototype's features and user interface. The results will be instrumental in guiding further improvements and ensuring that the final product meets the needs of its users.