# Centralized Schedule and Reminder Management System

#### Introduction

This project is designed to streamline the management of schedules and reminders. In today's fast-paced world, individuals are overwhelmed with numerous responsibilities and appointments, from vehicle maintenance tasks, such as annual registration, oil changes, and tire rotations, to personal commitments including dental check-ups, physical examinations, and children's appointments. We aim to develop a comprehensive system that centralizes schedule management, enabling users to categorize tasks, create specific items within each category, set reminders, and easily query upcoming events.

### **Project Objective**

To develop a comprehensive system that simplifies the management of schedules and reminders for a wide range of tasks and appointments, thereby helping users organize their personal and professional lives more efficiently.

## **Target Audience**

Individuals seeking a unified solution to manage personal and professional commitments, including vehicle maintenance, healthcare appointments, and family schedules.

## **System Capabilities**

- 1. User Account Management
  - Users can create and manage their accounts, including setting up personal information and preferences.
- 2. Category Creation
  - Allows users to create customizable categories for organizing different types of tasks and appointments (e.g., Vehicle Maintenance, Healthcare Appointments, Family Commitments).
- 3. Task Management
  - Within each category, users can create specific items or tasks (e.g., Annual Car Registration, Dental Check-Up).
  - Each item can have detailed information, including due dates, descriptions, and any relevant attachments.
- 4. Reminder Setup
  - Users can set customizable reminders for each item, choosing from various notification methods (e.g., email, SMS, push notifications).
  - Reminders can be set at different intervals leading up to the event (e.g., one week before, one day before).

#### 5. Events Query

- A feature that allows users to view a list of upcoming events and tasks, filtered by categories, due dates, or custom user-defined filters.
- A feature that allows users to search for events based on search criteria.

#### 6. System Access

- The minimum requirement is to develop a standalone system that runs on a computer
- Preferred access is from a web interface or a mobile application or both, ensuring users can manage their schedules and reminders on the go.

## **System Requirements**

- The interface must be user-friendly, allowing for easy navigation and task management.
- The system should send reminders reliably at the set times, ensuring users are adequately notified.

### Tools to Use for Design and Development

- 1. You must use some UML CASE tools to make your analysis and design, such as IBM Software Architect, Rational Rose, or StarUML.
- 2. You must use Microsoft Project to work out your workplan and use MS Project to keep track of the progress of your project.
- 3. You may use Microsoft Visio to draw Entity-Relation diagrams (ERDs), and data flow diagrams (DFDs).
- 4. You must use some Unit Test tools (e.g., JUnit, CppUnit, etc.) to perform automated testing.
- 5. You must use some version control system to keep the consistency of your code. Possible choices include GitHub, CVS, subversion, Microsoft team foundation server, etc.