Group 2

MediPal
Software Development Plan
Version 1.0

Revision History

Date	Version	Description	Author

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Software Development Plan

1.   Introduction

MediPal is an application dedicated to keeping track of the user's medication schedule, doctor's appointments and daily healthcare reminders.

Main features include taking the user's medication name, dosage and consumption time input to create scheduled reminders, history log of past medications and reminders for follow-up appointments and health check-ups.

2.   Project Overview

2.1   Project Purpose, Scope, and Objectives

Purpose: To assist individuals, teenagers and adults alike, with managing their daily health tasks more reliably and independently.

Objective: Develop and release a mobile application by mid August that enables users to schedule and receive medication reminders, log taken doses, and get appointment notifications.

Scope:

- Mobile application (Android) – may be ported as a web application
- User profile
- History logs of medications taken
- History logs of appointments
- …

2.2   Assumptions and Constraints

- **Budget:** zero-budget project
- **Staff:** project is developed by 5 people, there are no plans of changing the members
- **Schedule:** No strict schedule for the development of the project, everyone nay work on the project on any day of the week as long as the weekly goal is reached

2.3   Project Deliverables

- **Wireframes and UI mockups** – 13/06/2025
- **Develop medication reminder module; basic UI & notification system –** 17/07/2025
- **Appointment scheduling, calendar sync (optional), health reminders –** 21/07/2025
- **chatbot prototype and history log; internal integration testing** – 27/07/2025
- **Final release build (Android)** – 05/08/2025
- **User documentation and help guide** – 05/08/2025

3. Project Organization

3.1 Organizational Structure
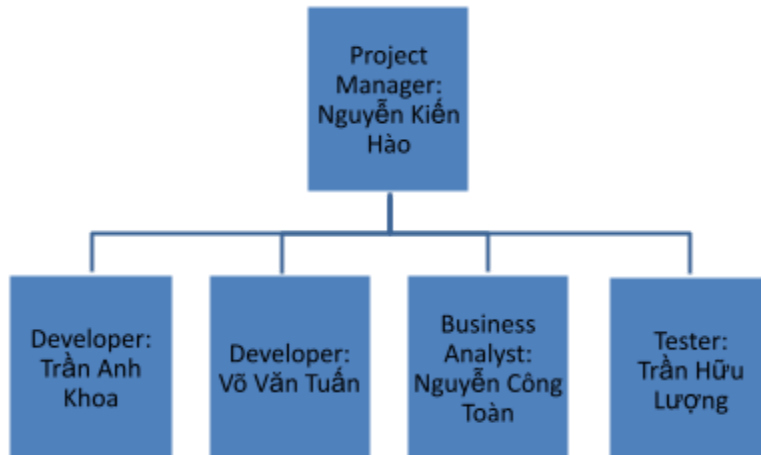
3.2 Roles and Responsibilities

The project team consists of five members, each assigned to a predefined role based on their strengths and contributions. The **Project Manager** (Hào) oversees progress and coordination. The **Business Analyst** (Toàn) gathers user needs and defines system requirements. The **Developers** (Tuấn and Khoa) are responsible for implementing and testing application features. The **Tester** (Lượng) ensures that the system meets functional expectations through rigorous testing.

Name	Role
Nguyen Kien Hao	Project Manager
Tran Anh Khoa	Developer
Vo Van Tuan	Developer
Tran Huu Luong	Tester
Nguyen Cong Toan	Business Analyst

4. Management Process

4.1 Project Estimates

- **Estimated Duration**: ~12 weeks

- **Estimated Effort**: 5 team members × ~5–7 hours/week × 12 weeks ≈ 300–400 person-hours

- **Estimated Cost**: No financial cost incurred; all work done by student team. Free tools and resources (e.g., GitHub, Android Studio, …) are used.

- **Re-estimation Points**:
  - After each iteration review
  - When major blockers or scope changes occur
  - Before final release demo

4.2 Project Plan

Resources

- **Personnel:** 1 PM, 1 BA, 2 Devs, 1 Tester

- **Tools:** GitHub, Google Docs/Sheets, Trello, Jira

- **Platforms:** Android (target version 9.0+)

Project Methodology: Agile with 3 main sprints (iterations)

4.2.1 Phase and Iteration Plan

Phases Overview

Phase	Start Date	End Date	Objectives
Phase 1: Planning	19/05/2025	01/06/2025	Role assignment, project proposal, requirement analysis
Phase 2: Design	02/06/2025	29/06/2025	UI/UX design, database design, system architecture
Phase 3: Development	01/07/2025	27/07/2025	Feature implementation in iterations (medication, appointments, etc.)
Phase 4: Testing & Finalization	28/07/2025	10/08/2025	System testing, bug fixes, documentation, final demo

Iteration Breakdown

Iteration	Timeframe	Objectives
Iteration 1	01/07/2025 – 17/07/2025	Develop medication reminder module; basic UI & notification system
Iteration 2	18/07/2025 – 21/07/2025	Add appointment scheduling, calendar sync (optional), health reminders
Iteration 3	22/07/2025 – 27/07/2025	Finalize chatbot prototype and history log; internal integration testing

4.2.2   Releases

- **Alpha release (17/07/2025):** Prototype with some basic features for internal testing
- **Full release (05/08/2025):** final version of the app to be released to the public

4.2.3   Project Schedule

Timeframe	Activity
19/05/2025 – 25/05/2025	Role assignment, initial project planning
26/05/2025 – 01/06/2025	Requirement analysis, finalize project scope
02/06/2025 – 13/06/2025	UI/UX mockups, database schema design
14/06/2025 – 29/06/2025	App architecture setup, prepare sprint backlog
01/07/2025 – 16/07/2025	Iteration 1: Medication tracking module
17/07/2025	Alpha demo and review
18/07/2025 – 21/07/2025	Iteration 2: Appointments, daily reminders
22/07/2025 – 25/07/2025	Iteration 3: Chatbot + history log + integration testing
26/07/2025 – 27/07/2025	Final bug fixing, UI polish, test case execution
28/07/2025 – 05/08/2025	Documentation, project report, deployment
06/08/2025 – 10/08/2025	Final demo and submission

4.3 **Project Monitoring and Control**

4.3.1 Reporting

Project status is reported via the following means:

- Weekly face-to-face meeting or Google Meet
- Informal chats on Messenger and Discord for minor reports
- Weekly status report documents

4.3.2 Risk Management

4.3.3 Configuration Management

- **Google Drive:** storing and sharing documents and files
- **GitHub:** managing source code and related files