Software Design

Progress Report No. 2

Product Road Map

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I.   Objectives

The objectives of this roadmap are to guide the development of a complete Salon Automation System that improves operational efficiency, client experience, and management oversight.

External Presence

Build a user-friendly website showcasing services, promotions, pricing, and stylist profiles.

Client & Appointment Management

Develop an automated booking system with stylist-specific availability, reminders, and customer preference tracking.

Internal Operations

Provide tools for CRM, staff scheduling, billing/POS, inventory monitoring, and marketing automation.

Technical Foundation

Develop a secure, scalable platform using React.js, Laravel PHP, MySQL, and hosting services.

II.   Methods

The project follows the Agile methodology of iterative development throughout the semester. Each phase is designed to deliver a Minimum Viable Product (MVP), test, and refine.

Phases:

Phase 1 - System Foundations: Requirement gathering, UI/UX design, database setup, frontend/backend setup, authentication.

Phase 2 – Core Salon Features: Online appointments, staff schedule management, client CRM, service listings.

Phase 3 - Business Operations Features: Billing/POS, inventory tracking, loyalty programs, marketing tools.

Phase 4 - Admin Tools & Optimization: Admin dashboard, analytics, optimization, and deployment.

Technical Architecture

Frontend: HTML, CSS, Javascript

Backend: Laravel PHP

Database: MySQL

Hosting: Web Hosting(Hostinger)

This project follows the Agile methodology for the iterative development of the Salon Management System. The progression goes from system set up and core features, to business operations and admin tools, delivering a refined MVP at each phase. It will be built using React.js, Laravel PHP, MySQL, and will be hosted on VPS/shared hosting to ensure scalability and efficiency.
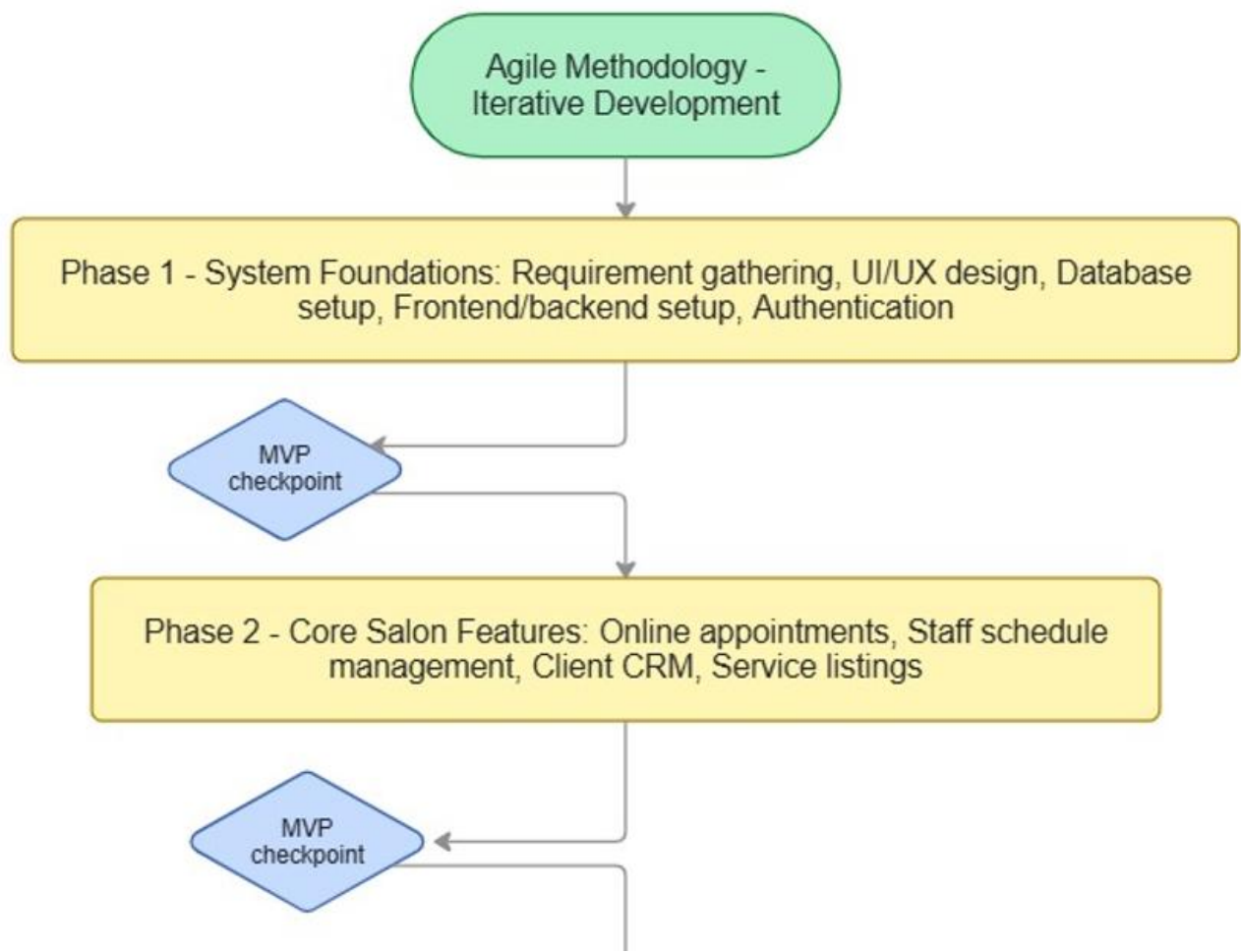

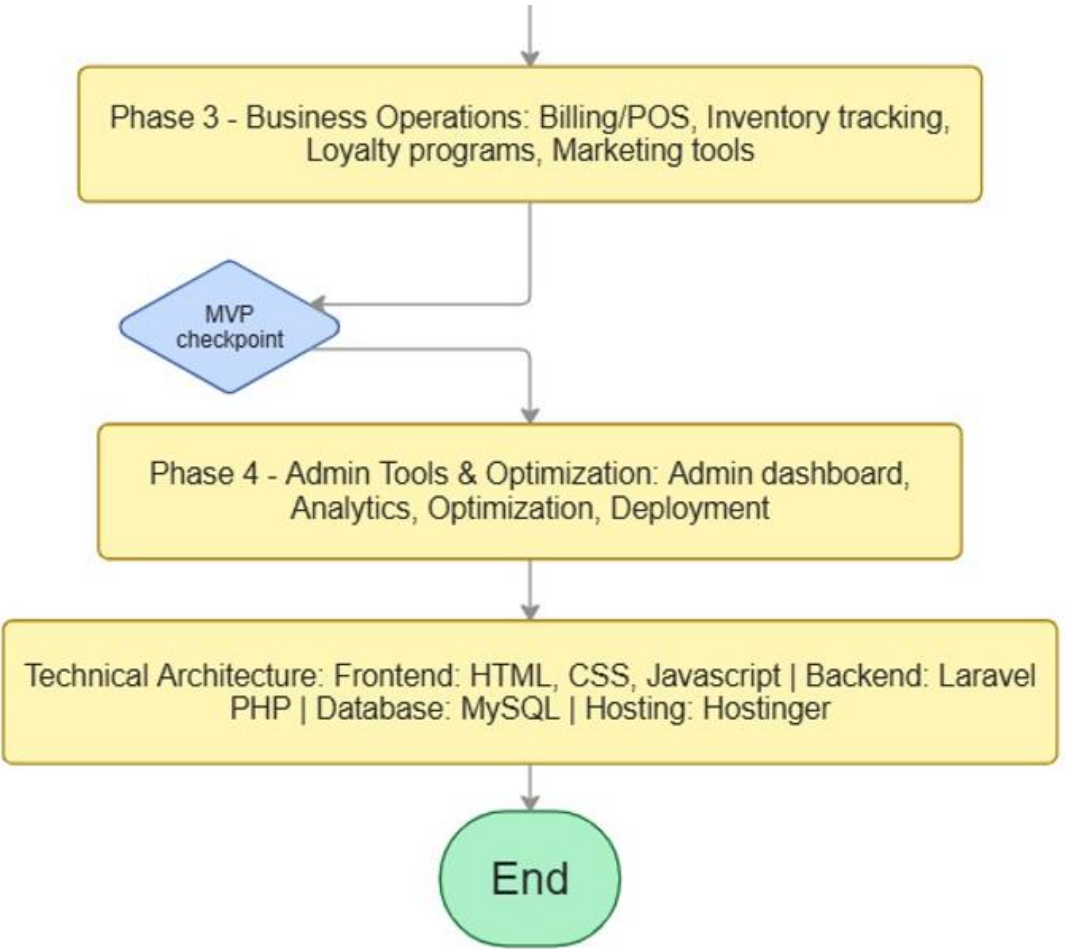Figure 1 Screenshot of program

Figure 2 Screenshot of program

This Agile development plan has divided the Salon Management System project into four iterative phases: System Foundations to Core Salon Features to Business Operations to Admin Tools & Optimization. Each phase delivers a working MVP before progressing, hence ensuring steady and tangible progress. The tech stack for full implementation is clearly defined: HTML/CSS/JS frontend, Laravel backend, MySQL database, and Hostinger hosting.

III. Conclusion

This roadmap thus provides the structured plan necessary for developing a functional Salon Automation System. Agile iterations ensure that a scalable, secure, user-friendly platform that enhances operations, customer engagement, and data-driven decision-making is realized.

References

[1] Co Arthur O.. "University of Caloocan City Computer Engineering Department Honor Code," UCC-CpE Departmental Policies, 2020.