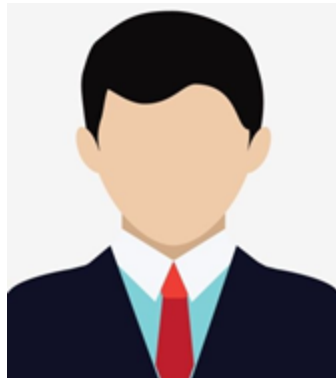


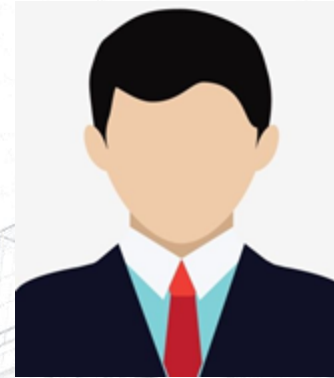
Medical Appointment Scheduling System



CEDRICK E. GARCIA



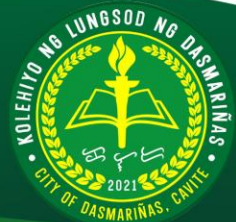
GABRIEL DAVID G. VILLALON



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JOSEPH C. PUHANTE



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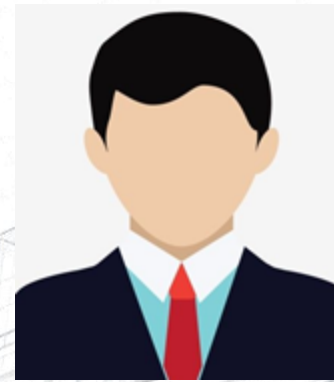
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**LOURENCE MCGYLLE RUIZ.
LUMAAD**



STEPHEN MELVIN A. DEL MUNDO



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Chapter 1 - Introduction

Problem Statement:

Manual appointment systems cause double-bookings, long wait times, and inefficiencies.

Patients struggle to book/reschedule appointments easily.

Solution:

Web-based system for automated scheduling,



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Chapter 1- Objectives of the Study

General Objective: Design and develop web-based Medical Appointment Scheduling System

Specific Objective:

- 1.Enable booking/cancelation.
- 2.Enable doctors to manage availability and view schedules



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Chapter 1- Purpose and Description

Purpose:

Replace manual logbooks with a scalable digital platform.
Improve patient satisfaction and clinic efficiency.

Target Users:

Patients, doctors, clinic admins, and IT staff.



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Chapter 1- Scope and Limitation

Scope:

Patient registration, log in, appointment booking, doctor scheduling, admin dashboard.

Limitations:

No billing/payment integration.



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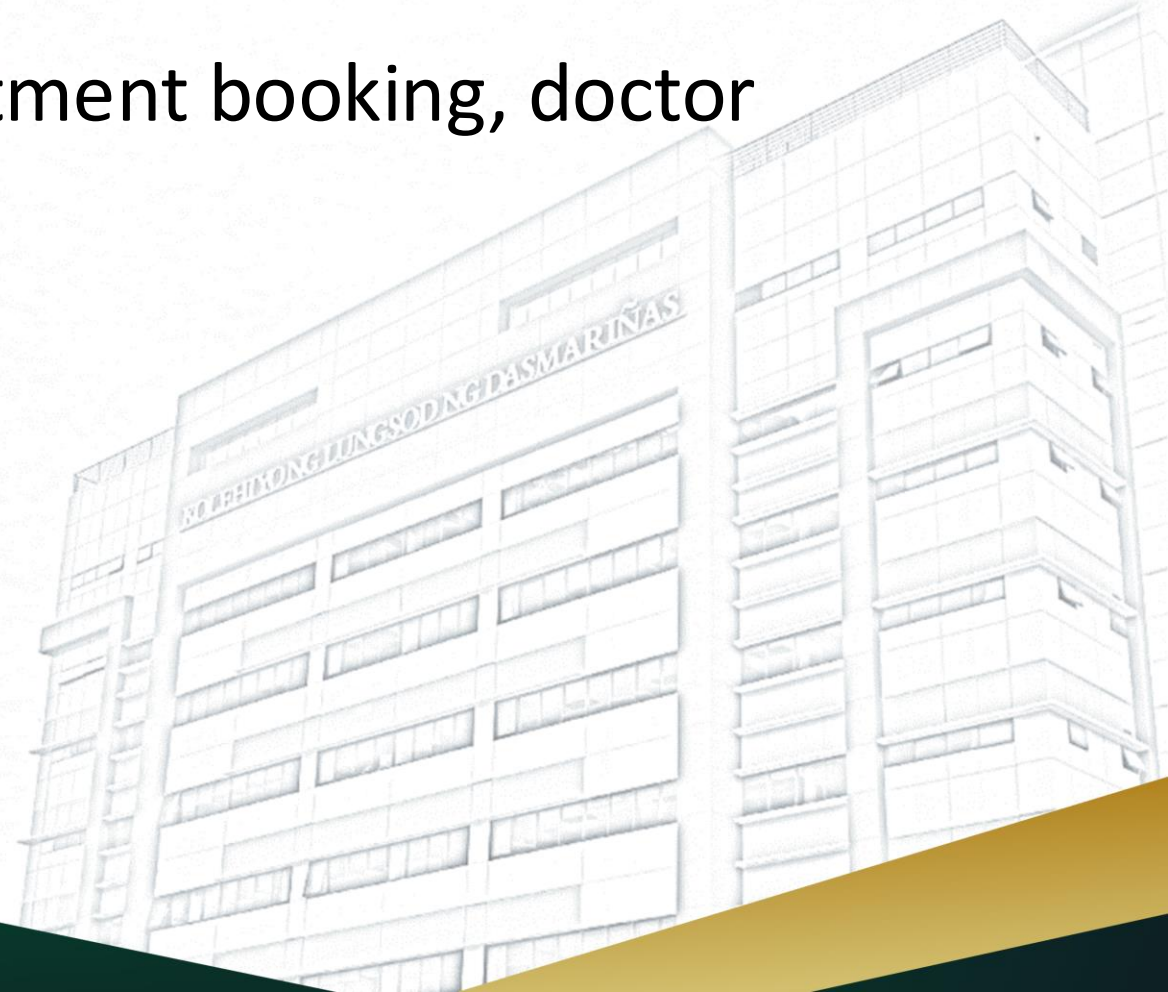
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Chapter 1- Introduction

Conceptual Framework

INPUT

- Knowledge of medical scheduling systems
- Programming skills
- Web development tools(HTML,CSS,JAVASCRIPT,PHP,MySQL, JAVA)

PROGRESS

- Research and data gathering
- System design and coding
- Testing and debugging
- User evaluation and revisions

OUTPUT

- A fully functional Medical Appointment Scheduling System evaluated using ISO standards.

Chapter 2 - Review of Related Literatures & Studies

Topic Outline:

Research by Akinode and Oloruntoba (2017) demonstrated that web-based systems using technologies like PHP and MySQL significantly reduce patient wait times in small clinics.

Feng Chen (2022) conducted a comprehensive review of healthcare scheduling, highlighting the effectiveness of AI and simulation models in optimizing appointment systems.



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Chapter 2 - Review of Related Literatures & Studies

Topic Outline:

J. Environ (2019) surveyed online appointment systems in Taiwanese hospitals, finding that most offered basic registration functions but lacked advanced features.

Strahl and Jonathan (2015) analyzed scheduling challenges at Oulu Hospital, identifying doctor tardiness and appointment variability as key issues affecting patient wait times.

These studies provide insights into the design and implementation of medical scheduling systems.

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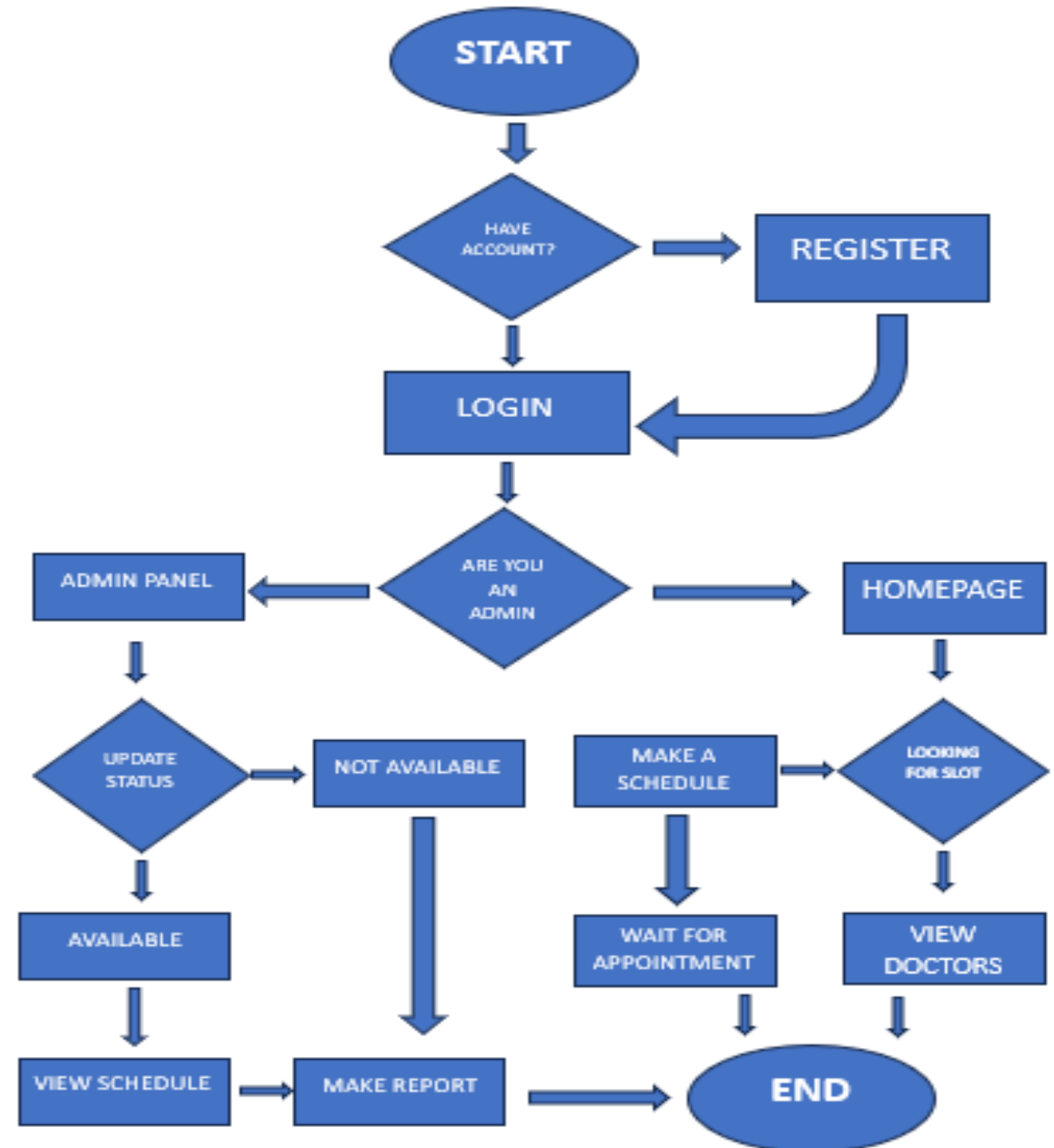
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Chapter 3- Methodology

Requirements Analysis



Chapter 3- Methodology

Requirements Documentation

Hardware:

1. Laptop or Desktop Computer
2. Internet connection

Software:

1. NET Beans / Any IDE
2. MySQL / PostgreSQL (Database)
3. XAMPP / WAMP / Live Server (for local testing)

A. Other Tools:

1. ERDPlus / Lucidchart (for diagrams)
2. Trello (Project management)
3. GitHub (Version control)



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Chapter 3- Methodology

Project Development

The **Build-and-Fix Model** was used in the development of the Medical Appointment System.

- a. **Build Phase:** An initial working version was created with basic functions (e.g., patient registration, doctor scheduling, booking appointments).
- b. **Fix Phase:** Through self-testing, bugs and shortcomings were identified and corrected. Additional features were added based on observed needs.
- c. **Finalization:** The system was polished until it met the desired functional standards.



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Chapter 3- Methodology

Implementation Plan

Local Setup

Install required software (XAMPP/WAMP, database). Configure the local server environment.

Testing Phase

Test core functionalities (registration, booking, scheduling).
Fix bugs and refine features.



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Chapter 3- Methodology

Implementation Plan

- **Demonstration Preparation:**
 - Prepare the system for presentation or demonstration purposes by ensuring stable performance on the local machine.
 - Set up sample data (patients, doctors, schedules) to show system features during evaluation.
- **Documentation:**
 - Document all steps for setting up and running the system locally.
 - Prepare a user guide or manual if needed for easier understanding during evaluation.
- **Final Submission:**
 - Compile the final version of the system, including the source code, database backup, and documentation.
 - Submit or present the project according to academic requirements.



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End Presentation

Thank You



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