COLLEGE OF BUSINESS AND ECONOMICS

SCHOOL OF BUSINESS

BUSINESS INFORMATION TECHNOLOGY

ADVANCED JAVA PROGRAM

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NO:

LEVEL 2

GRP 3 SUBGRP 3

PROJECT NAME: CLINIC MANAGEMENT SYSTEM

PLANNING

A Clinic Management System is an integrated information system for managing all aspects of a medical clinic's operations such as medical, financial, administrative, legal, and compliance.

Main objective of clinic management is to provide choicest level of wellness and improve care coordination while providing cost friendly services.

The Problems You Can Solve with Clinic Management Software

Perfecting the Patient Experience: Ultimately, patient experience is defined by the overall level of service quality and not just the treatment delivered.

Optimizing the Patient Journey: When it's time for your practice to go paperless with clinic management software, the most crucial goal is not to lose patients. While you could cope with the help of spreadsheet tools like excel enables you to actually interact with your patients.

Analyzing Big Data: Medical practices only maintain the highest standards by constantly evaluating the work that goes on within their walls.

HOW ITS DESIGNED THE CLINIC MANAGEMENT SYSTEM

The project clinic management is a software developed to simplify the communication process between the doctor and the receptionist. The software would be operated by two

admins one is doctor and the other is receptionist. Receptionist would be responsible for assigning token numbers to the patient visiting the clinic and save it in the database along with their details. These token numbers along with respective patient details are sent to doctor. The doctor can thus view patient details and after checking up the patient, the recommended medicines for the particular patient are fed into the database by the doctor and are sent to receptionist. The receptionist can then generate bill and feed into the database. The system also maintains patient's history so that doctor or receptionist can view them anytime. The system can thus reduce complexity in maintaining patient's records.

- Login
- Add Admin
- Add Doctor
- Add Receptionist
- Add Patient

DEVELOPMENT

This clinic management system has been developed to form clinic management system include admin, doctor, patient and receptionist.

MySQL as the database management system \DBMS\.

Creating database schemas and data models that align with the system's functional requirements \admin, doctor, receptionist, and patient\.

Connecting to MySQL using "mysql-connector-java-8.0.26" driver.

Creating the admin, doctor, receptionist, and patient tables and fields in the database using SQL scripts.

Defining relationships between tables.

For project

Open Apache Net Beans IDE and create a new Java project for the CLINIC MANAGEMENT SYSTEM.

Develop the interface of the system using Java Swing.

Develop the system and implement the necessary methods to handle the insertion of information, data manipulation and validation.

Handling the communication between the application and the database.

Implementing a login system to ensure the confidentiality and security of student data.

Ensure data is being stored, retrieved, and manipulated correctly.

This project have Graphical User Interface based software that will help in storing, retrieving and updating the information through various User.

TESTING

- Testing if the components of the system, such as the database and the user interface works correctly.
- Develop integration tests for the entire system to ensure that all the components are working together correctly.
- Testing the system as a whole to ensure that it is meeting the functional and technical requirements.
- Fix any defects or bugs that are identified during testing.
- Collect feedback from users and use it to make improvements to the system

DEPLOYMENT

TO describe, installation, testing, deployment and performance this project you must have the following tools;

- ✓ Start up xampp.
- ✓ Then go to localhost
- ✓ Create a database and name it as the SQL file given in your project folder.
- ✓ Then import the SQL file to the created database.
- ✓ After this open your NetBeans and then Run the project.
- ✓ Have MYSQL Connector.
- ✓ Run the system on the local computer to ensure that it is working as expected.

MAINTENANCE

- Continuously monitor the system for any issues or bugs.
- Regularly conduct tests on the system to ensure that it does not break and is still working as expected.
- Provide user support and troubleshoot any issues that arise.
- Collect feedback from users and use it to make improvements to the system.
- Continuously fix any defects or bugs that are identified.