



College of business and economics

School of business

Program: Business information technology

Module: Advanced java programming

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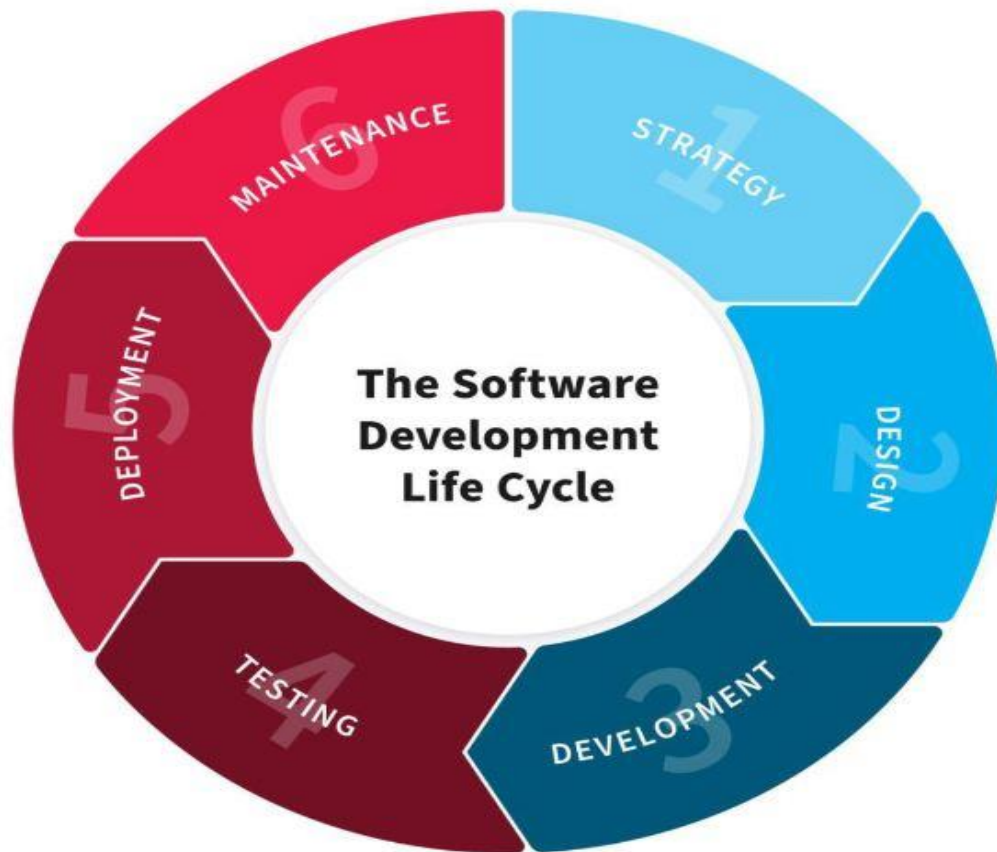
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Project name: Clinic Management System

Clinic Management System lifecycle:



The Clinic Management System is a suite of technically advanced software application, aiming to help & simplify the daily operations of a clinic.

It will just provide a suite of ready functionalities that makes it easy to manage and organize a clinic. By simplifying many operations like patient management, appointment scheduling, doctors' schedules, prescriptions management, payments, among others.

Planning phase

Clinic Management System is a system enabling clinics to manage information and data related to all aspects of healthcare. Processes, providers, patients, and more, which in turn ensures that processes are completed swiftly and effectively

Also HMS is a process of implementing all the activities of the hospital in a computerized automated way to fasten the performance.

Goals and functions of clinic management system:

It will just provide a suite of ready functionalities that makes it easy to manage and organize a clinic. By simplifying many operations like patient management, appointment scheduling, doctors' schedules, prescriptions management, payments, among others. Not only goals but also objectives,

Will be aiming to:

- *Improve security and confidentiality of patient data and records.*
 - *Reduce duplication of data and procedures/examinations, prescription or referrals.*
 - *Ensure better quality of care, education and research.*
 - *Design a system for better patient care.*

- *Reduce clinic operating costs.*
- *Provide MIS (Management Information System) report on demand to management for better decision making. Better coordination among the different departments.*
- *Provide top management a single point of control.*

Designing phase

This includes login, doctors, user, patients and room appointments. In this system, you can perform the actions that you usually see in the hospital, you can do the following features:

- *Login*
- *Add Patient*
- *Add Doctor*
- *Add Room*
- *Add User*
- *Update Patient*
- *Delete Patient*

Development phase

This management system has been developed to form a whole management system including Users, Doctors (consultants), Nurses, Patients, Bills, and Complains etc.

This project has GUI (Graphical User Interface) based software that will help in storing, updating and retrieving the information through various user-friendly menu-driven modules.

Testing phase

- *Verify that the portal for new patient registration has all the mandatory fields required for registering a patient.*
 - *Verify that after filling the patient details*
- *Verify that after patient checkup based on the requirement the details are updated in the patient details database.*
- *Verify that for existing patients based on the application number of the patient, their records are added/updated in the database.*
 - *Verify that the system has an admin for doctors as well.*
- *Verify that for each doctor's details like their timings, specialty, fee, patient visited, among others is visible to the authorized users.*
- *Verify that new details of new doctors can be added to the system.*
 - *Verify that the details of existing users can be updated in the system.*
- *Verify that the doctor's record can be deleted from the system.*
- *Verify the billing admin of the system calculates the bill based on the patient's unique application number from the data generated from different systems.*
- *Verify that authorized users can also see total day-wise billing done.*
 - *Verify the admin for hospital inventory, room and bed management.*
- *Verify that the admin has the record of all the equipment, machines and medicines and the same gets updated when used or added to the system.*
- *Verify that the admin has a record of rooms and beds availability and the same gets updated based on their allotment and departure to patients*

Deployment phase

First of all,

- *Start your xampp.*
- *Then go to localhost/phpmyadmin*
- *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.*

Maintenance phase

- *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.*
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