Table on contents:

1- Always pink
2- Logo

3- Brief Introduction (Motivation, Problem Definition, Objectives)

Breast cancer is the most often diagnosed cancer in women, with over 2.1 million new diagnoses each year globally. Patients with breast cancer need individualized treatment to get the best results. Clinical Decision Support Systems (CDSSs) are a key advancement in medical practice that aid and support healthcare workers in clinical decision-making, enhancing the quality of decisions and overall patient care while lowering costs. CDSSs are becoming more widely used and available in breast cancer care in healthcare settings. However, there may be variations in how CDSSs are created, the information they include, the actions they advocate, and how they are utilized in reality. This systematic review investigates the availability, intended usage, and medical aspects of numerous CDSSs and expected outputs concerning breast cancer therapeutic decisions, an area that is known to have varying degrees of subjectivity in clinical practice.

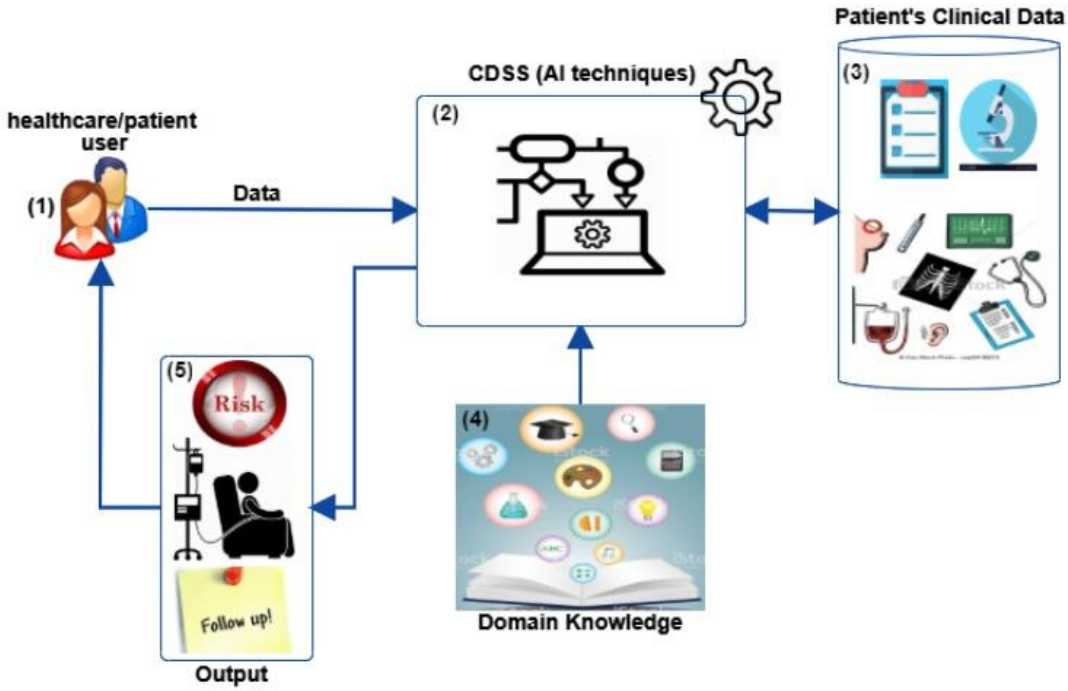
Objectives:

- computer-based programs that analyze data within EHRs
- provide prompts and reminders to assist health care providers.
- implementing evidence-based clinical guidelines at the point of care.
- Make the process easier and faster via the mobile application.
- Patient can track his treatment plan and its updates from home

4- System description

4.1 System overview

The system that links our clinic hospital management system of breast cancer that contains all the required deportments with our mobile application that used via the user. Moreover, the system automatically computer an AI processes in order to generate a clinical decision support for the decision-making teams in order to enhance the accuracy of the results of each case and enhance the numerical statistical by default to contribute to minimizing the death ratio.



Technologies used:

• PHP

• HTML

• FLUTTER

• MySQL

• Fhir

• Firly

• XAMPP

• Visual studio

4.2 system users:

- Doctor
- Admin
- Patient

4.3- Requirements

4.3.1- Functional

Registration process: adding patients and assigning ids to them

- patient health records management:
- decision support system: providing Ai module for predicting breast cancer

information management system:

- calendar
- prescription
- financial module

App:

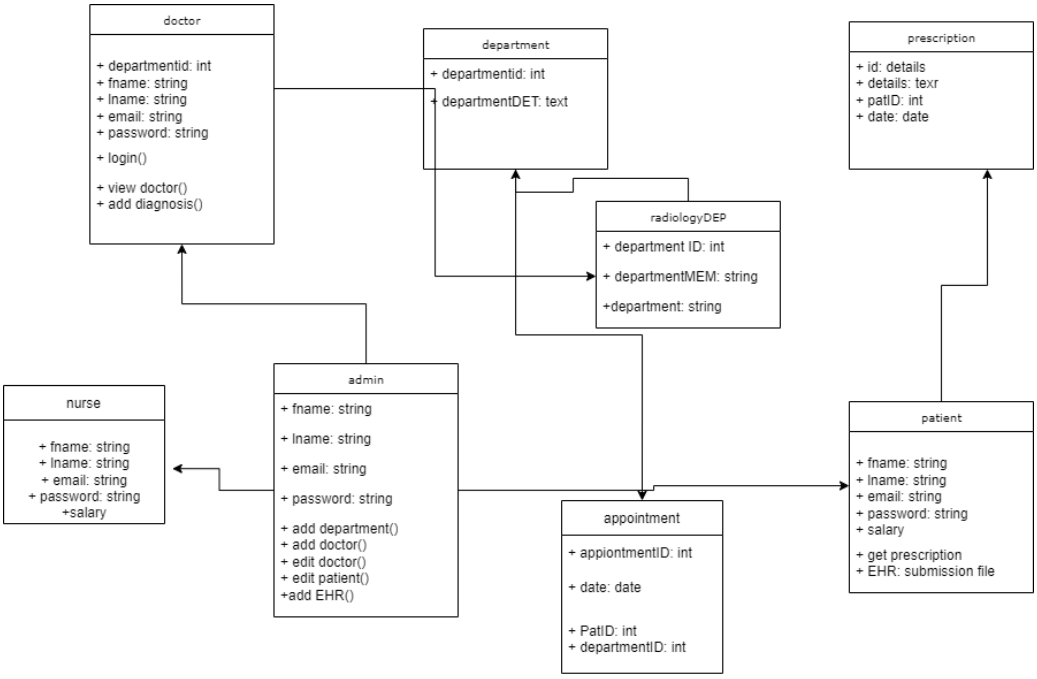
- accessing patient data

4.3.2- Non-Functional

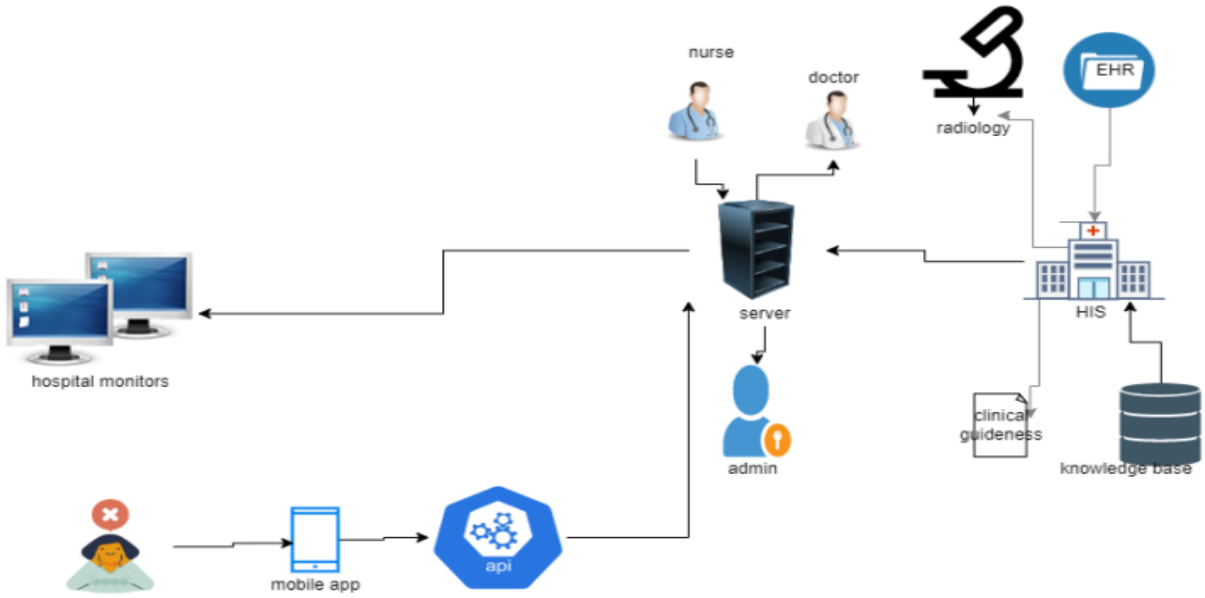
Nonfunctional requirements describe the typical characteristics of our online shopping system. Non-Functional requirements are also known as quality attributes.

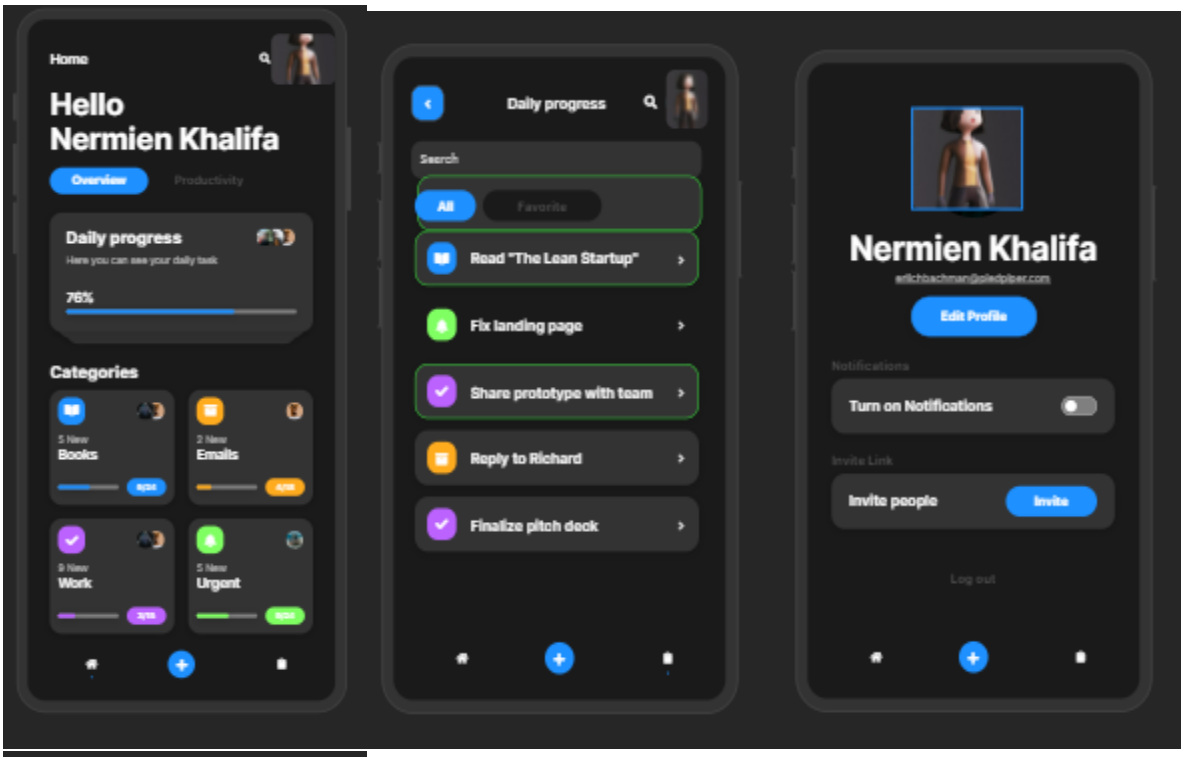
- ✓ Extensibility: Ensuring that the platform is extended in such a way to make future development feasible.
- ✓ Speed of web services: Defining how long web services will take to provide a response.
- ✓ Accessibility: Ensuring that the platform meets the basic accessibility standards throughout.
- ✓ Reliability and availability: Defining the agreed uptime of the platform under normal conditions. The application should be accessible from anywhere in the world via the Internet. The application should guarantee its availability to the users. The maximum downtime due to any failure (server crash or failure due to code) must not be more than a day.
- ✓ Security: it is especially important that patients can rely on it for a safe environment.
- ✓ Privacy: There will be privacy data for users when the system is initially scoped.
- ✓ Extensibility: ensuring that the platform is extended in such a way to make future development feasible.
- ✓ Scalability and performance: If we need to serve more users, we just add an additional server

4.4- UML Diagrams



4.5- High-Level Architecture (system Components, Interfaces, Databases, Transfer Protocols, … etc.)


nurse
doctor
radiology
EHR
server
HIS
hospital monitors
admin
clinical guideness
knowledge base
mobile app
api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Hello
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Overview
Productivity
Daily progress
Here you can see your daily task
76%
Categories
5 New
Books
3 New
Emails
9 New
Work
5 New
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