Integrated Telemedicine and E-Health with ERP System

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ABSTRACT

In Medicals and medicine is very essential and most required thing in the world .so here is the resource to reach to everyone i.e. Medical solution for all the roles required in the main purpose of this integrated system is to keep the expire medicines record as well as to notify with its need and expire date. I'll deal with the proof of concept of the most important part in telemedicine by doing many simulations on Software including the platform development, and those demonstrations are based on the actual data. In telemedicine you can buy medicine and also concern the doctor. It helps medical store owner to about medicine expiries and store details to maintain the medicine. The specific proposals are considered for the implementation of telemedicine screening complex on the application
Key Words: Classification algorithm, Database, E-commerce security, ERP System, Medical Consultant.

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1. INTRODUCTION

An ERP system is an attempt to integrate all functions across a company to a single computer system that can serve all those functions' specific needs. "Integration" is the key word for ERP implementation. It may also integrate key customers and suppliers as part of the enterprise's operation. It provides integrated database and custom-designed report systems. It adopts a set of "best practices" for carrying out all business processes. Issues gathered while communicating with the medical store owner

> Maintains of stock information
> Listing expire inventory.
> In E-Health doctor also able to consult patient directly with this system.

2. SYSTEM ARCHITECTURE

This diagram will provide a visual illustration of a system's various components and show how they communicate and interact with each other.
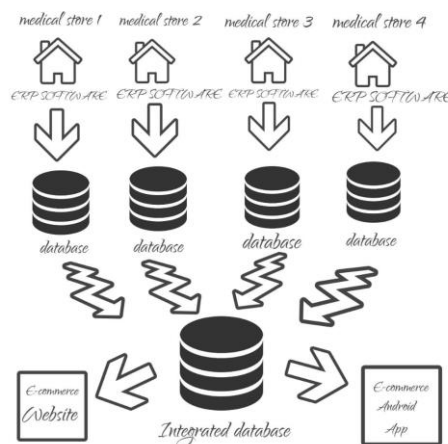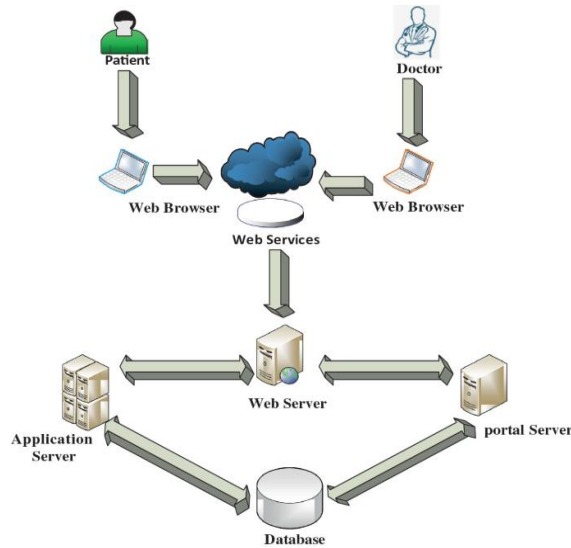

Figure1: E-Commerce Architecture Diagram

Figure2: Online Doctor Architecture Diagram

2.1   UML DIAGRAM
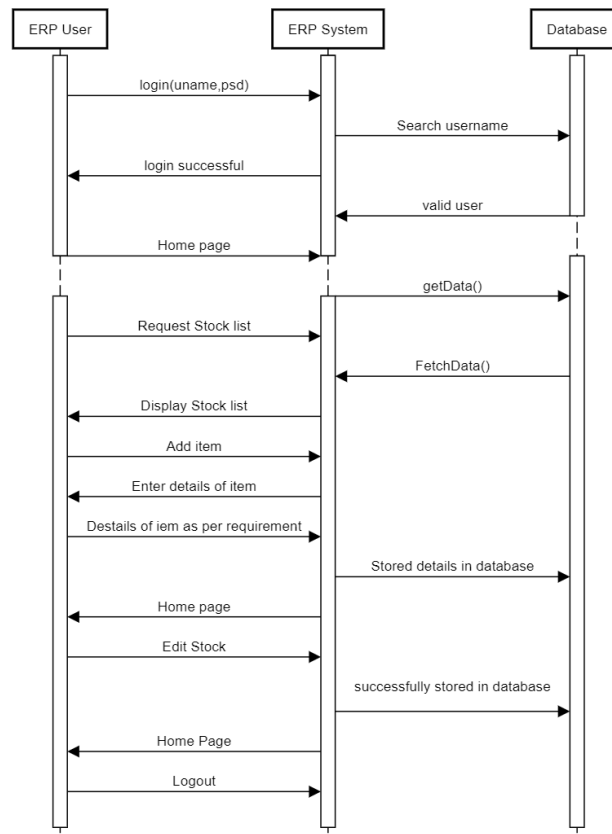### 2.1.1   Sequence Diagram

Figure 2: Sequence Diagram

2.2 SOFTWARE AND HARDWARE REUIREMENTS
Software Requirements:

Androd Studio/Visual studio 19

MySQL/XAMPP Server

Windows 7/8/10.

Hardware Requirements:

1. Intel core i7, 2 GHz

2.3 USER INTERFACE

Application provides the detailed information and detail of medicines to maintain the medical owner the detail of medicine which helps to to give the correct information of medicines.

Through which the medical owner easily supply the medicines hence the user whomever using a where application will get nearest location where his or her all medicines he or she can purchase.

I present a E-commerce and EHealth web app integrated into 1 database were user book appointment for consultation also buy an medicine prescribed by doctor. It will help in user to contact doctor in emergency and payment gateway is also safe. Doctor also able to see the patient report directly in web app and daily medicine dosage taken by the patient.
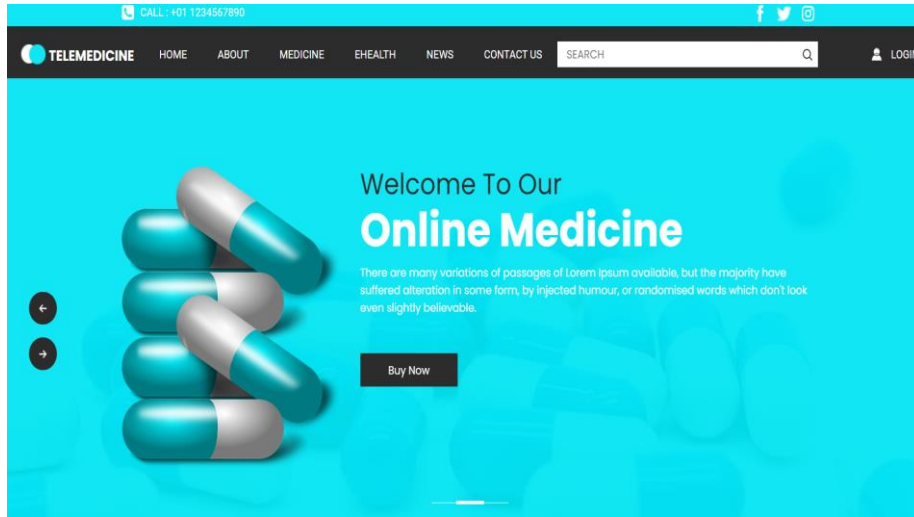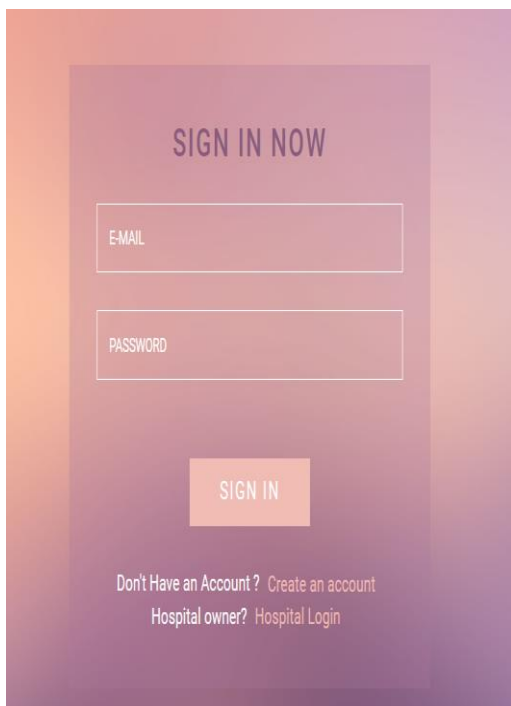

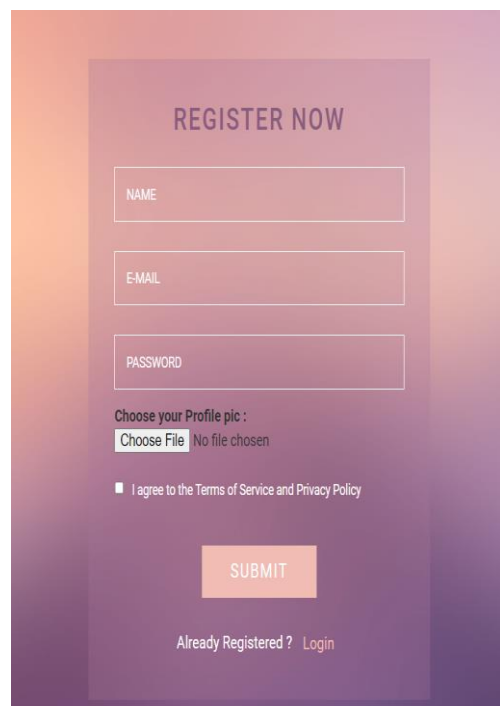**Figure 4: OUTPUT 1**

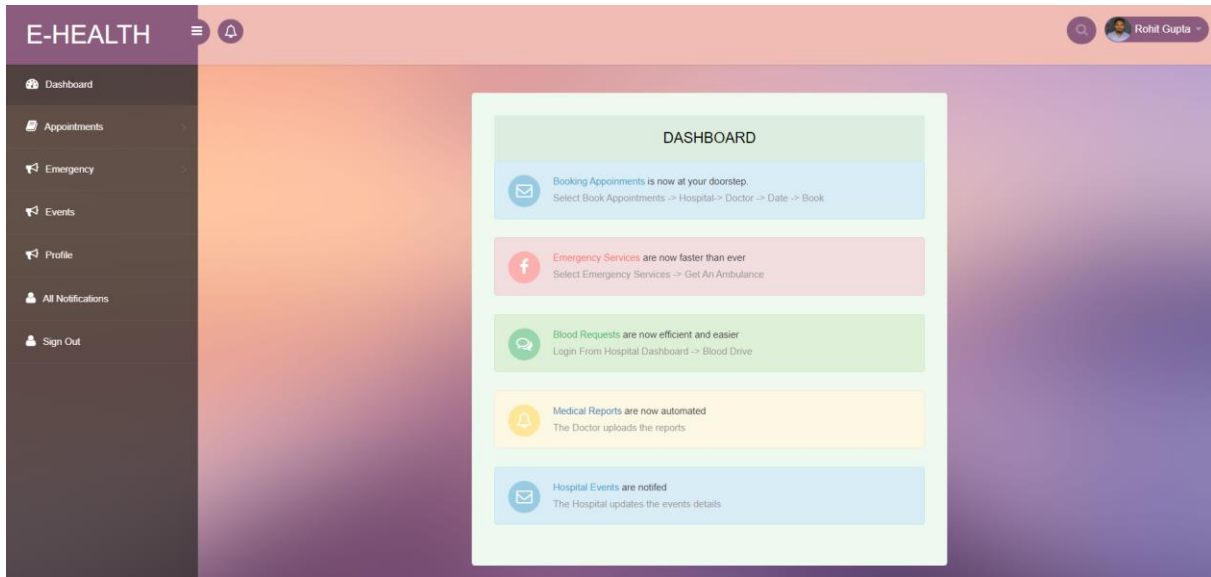**Figure 5: OUTPUT 2**

Figure 6: OUTPUT 3

Figure 7: OUTPUT 4

3. TESTING

It has all the testing record for user interface we have completed. It has gone through a numbers of testing with login and signup page. We have followed black box testing and unit testing on User Interface.

3.1 USER INTERFACE TEST CASE

Table 1: GUI Test Cases

Test case	Login Screen- Sign up
Objective	Click on sign up button then check all required/ mandatory fields with leaving all fields blank
Expected Result	All required/ mandatory fields should display with symbol "*". Instruction line "* field(s) are mandatory" should be displayed
Test case	Create a Password >>Text Box Confirm Password >>Text Box
Objective	Check the validation message for Password and Confirm Password field
Expected Result	Correct validation message should be displayed accordingly or "Password and confirm password should be same" in place of "Password mismatch".

3.2 LOGIN TEST CASES

Table 2: Login Test cases

Test Case ID	Test Case	Test Case I/P	Actual Result	Expected Result	Test case criteria(P/F)
001	Enter The Wrong username or password click on submit button	Username or password	Error comes	Error Should come	P
002	Enter the correct username and password click on submit button	Username and password	Accept	Accept	P

3.3 REGISTRATION TEST CASES

Table 3: Registration Test cases

Test Case ID	Test Case	Test Case I/P	Actual Result	Expected Result	Test case criteria(P/F)
001	Enter the number in username, middle name, last name field	Number	Error Comes	Error Should Comes	P
001	Enter the character in username, middle name, last name field	Character	Accept	Accept	p
002	Enter the invalid email id format in email id field	Kkgmail,com	Error comes	Error Should Comes	P
002	Enter the valid email id format in email id field	kk@gmail.com	Accept	Accept	P
003	Enter the invalid digit no in phone no field	99999	Error comes	Error Should Comes	P
003	Enter the 10 digit no in phone no field	9999999999	Accept	Accept	P

4. CONCLUSIONS

The web-based appointment system could significantly increase patient's satisfaction with registration and reduce total waiting time effectively. However, further improvements are needed for broad use of the system. The details of the medicine are maintained properly that means inventory check up and E-commerce. Using our application there will be no wastage of the products and medicine and timely get updates

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