

Research Proposal on
MediXpert – A Pharmaceutical E-commerce

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Submitted To:

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Motivation:

The Covid-19 pandemic shows us how important and difficult it is to take care of our health in present days. In regular health care, the urgency of medicine became a major problem during this pandemic. Peoples hardly thought of buying medicine online before. But because of travel restrictions and lockdowns across the globe e-commerce is an easiest solution for everybody. Same as for pharmaceutical sector. Specially during this kind of pandemic pharmaceutical e-commerce is a primary and emergency need of people. This e-commerce can enable an easy and efficient way of buying medicine.

Objectives:

- To make it easier for customer to purchase medicine staying at home.
- Time saving for people for whom it is difficult to make time to go to store.
- People living away from their family can send medicine to parent easily.
- To provide pharmaceutical company a digital marketplace.
- Building awareness in the society.

Introduction:

MediXpert is an easy and user-friendly pharmaceutical e-commerce platform where user can order different kind of medicines and others healthcare products. E-commerce websites are being more popular among the user for normal situation and more effective at pandemic situation. The MediXpert or online pharmacy is an online platform that sells medicines over online and delivers them through mail at customers doorstep [1-3]. The ability of consumers to obtain prescription medications via the internet has grown exponentially over the past decade [4].

During this pandemic we realized the necessity of these kind of website the most. This system will help people to get medicine during strict lockdown as Covid-19 has not yet disappeared. Social awareness is important to have a healthy society. This website will also work on building awareness on health issues among the general people.

MediXpert will not only help people to buy necessary and rare medicines but also it will work on how people can stay healthy without medicine.

Methodology:

We use Spiral Model to design our platform. The Spiral Model is an incremental development model with more emphasis placed on risk analysis. It has four phases: Planning, Design, Construct and Evaluation. At first, requirements are gathered from the users and the objectives are identified. Afterwards, gathered requirements are evaluated to design our project. After that, we will develop our project using HTML, CSS, BOOTSTRAP, JAVASCRIPT, PHP and MySQL. We will use white-box testing method to test our software. Furthermore, the software will be tested by our users in real working environment. We will collect the feedbacks from the users and use them in further improvement. The process will continue until the completion of the project.

This project will have two modules. One is admin and another is user. This two module's workflow diagram is following below:

Admin work flow diagram:

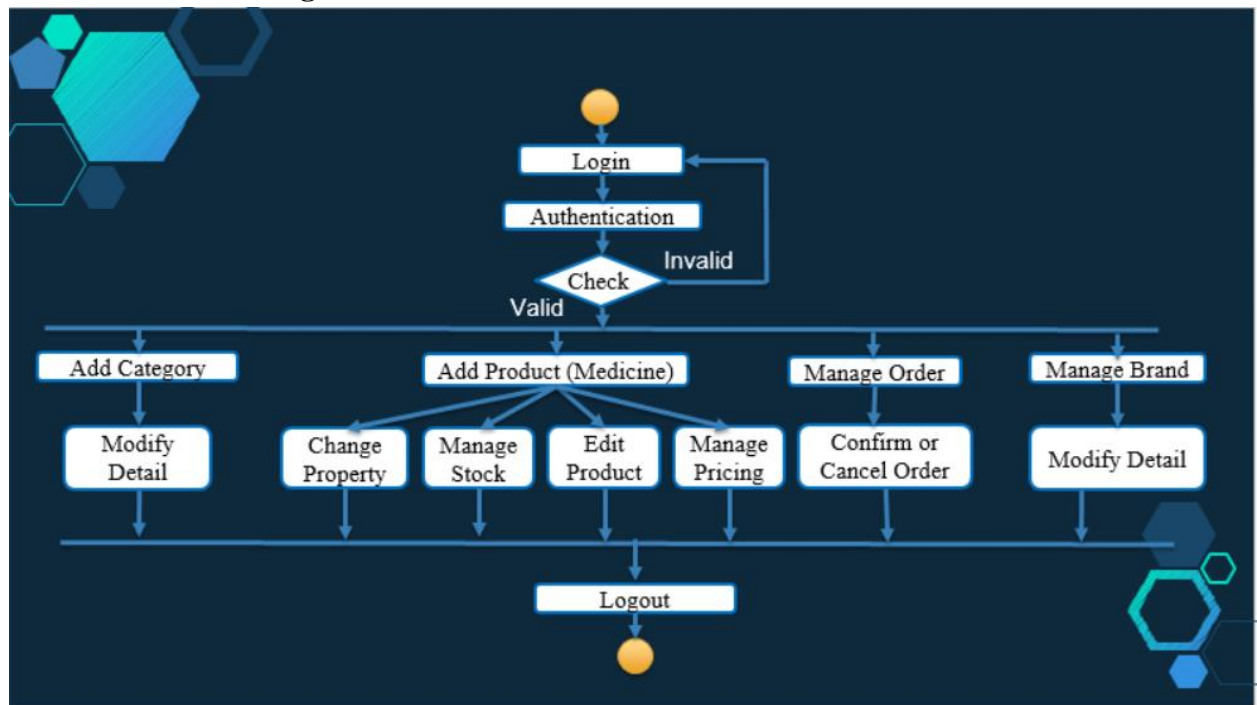


Figure-1: Admin work flow diagram

In Figure-1 we can see the functionalities and responsibilities performed by admin. After login admin is going to monitor whole system. Admin will manage necessary category of medicines and will add different drug to those categories. Admin have to manage every order and full process of delivery system.

User workflow diagram:

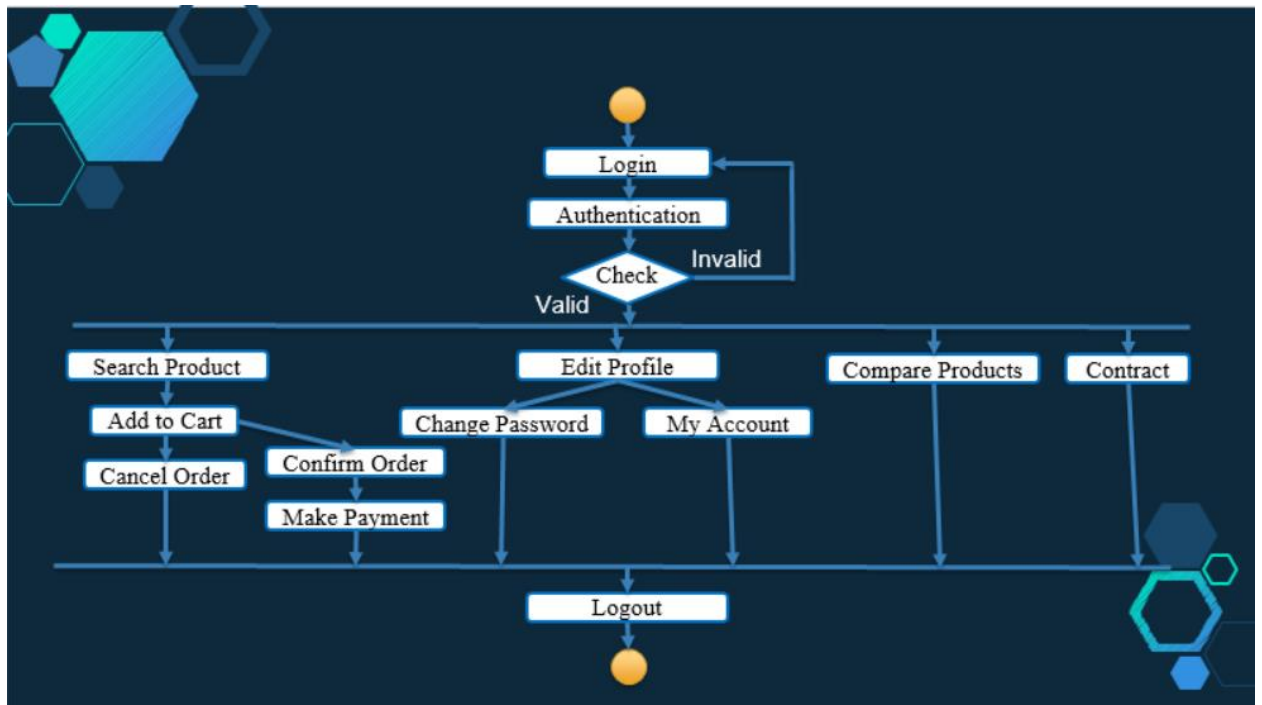


Figure-1: User workflow Diagram

Figure-2 we can see the functionalities of users. Every user needs to registered first and after authentication user will create a profile with their address and contact details and after that user can add their necessary drug in cart. Then user can confirm their order and make payment.

Discussion:

MediXpert will be an ultimate solution for people in terms of buying medicine. It will also help people to aware about their health. MediXpert can be a model of online platform in healthcare system. The target is to take the health care sector of our country in an advanced digital level.

References

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