**PROJECT ID: 21PJ-IT-20**

**SYNOPSIS**

### On

**E-Pharma System**

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**LUCKNOW, UTTAR PRADESH (SESSION: 2019-2020)**

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# OBJECTIVE AND SUBOBJECTIVE

# The ultimate goal of e-pharma system is to provide all the medical related solutions through one smart phone application. The application aims to achieve this goal by realizing these objectives:

# To provide an application based platform where doctors and patients can directly interact with labs and pharmacies for their respective benefits.

# Patients would be able to seek consultations, fix appointments with doctors or for sample collection for diagnosis and contact nearby pharmacies for drug related queries.

# Doctors would be able to gain commercial & social benefits by directly interacting with pharmacies and labs and can also cater their social responsibility.

# To create an application that is user-friendly, informative and beneficial, especially for senior citizens.

# By giving separate login interfaces for both patients and doctors.

# By providing a 24×7 CHATBOT facility.

# To help the patients, especially during emergencies and epidemics.

# ABSTRACT

# The main aim of developing this application is to provide all the medical related solutions through a single application. E-Pharma is a platform where patients and doctors can interact directly. Patients can self-diagnose from the direct doctor-patient relations, consumer experience in online purchases, the ease of mail-order trade and distance selling. The patient can consult with the doctor and can also order medicines which were prescribed by their doctors with just one click. Patients can also compare the prices of the tests in nearby labs.

Nowadays, Internet is used worldwide and due to this we have so many opportunities to use technology in best way like in medical related solutions. E-Pharms app will provide quick delivery and a user-friendly environment for the patients. Patients can take quick treatments in order to improve their health. Patients can interact with chatbot by telling their problems and also via- phone and e-mail.

The application will be helpful, informative and beneficial for a vast majority of people and has the potential of easing people’s lives in diverse ways.

**INTRODUCTION**

This report outlines the online platform where patients and doctors can interact directly. This project specially aims to help the older persons to order medicines online and get delivered at home. This will save their time and provide them rest. This will provide 24/7 service to the patients in just one click. Online pharmacy is going to be the next big evolution that will impact billions of life and bring a healthy behavioral change to safer and more convenient tomorrow. Our project also provide other services such as finding doctor, booking a lab test, viewing reports, ordering medicines etc. This project has been conducted by the students of Inderprastha Engineering College, Ghaziabad under the guidance of Dr. Kamal Upreti.

**LITERATURE REVIEW**

Online medicine purchase is popular worldwide due to convenience. The Indian pharmacy market is huge, estimated by industry to be around Rs1.2 lakh crore in size and out of that the online pharmacy market, estimated to be a fraction of that at Rs 700-800 crore [1].

E-Pharmacy is expected to grow at a CAGR of over 20%, crossing the US$ 3 Billion mark by 2024[2]. The advantages of online pharmacies are privacy , avail great choice, lower prices and convenience mainly. E-Pharmacy improves consumer convenience and access and this will give benefits to elderly patients suffering from chronic ailments because they need to visit pharmacy to buy medicines. This also help patients to take direct advice from certified doctors without visiting hospitals and paying huge amount.

According to [3]. WHO is really concerned with internet sales which may bypass national drug regulatory authorities, allow medical products on to the market which are un approved, fraudulent, unsafe or ineffective even.

Role, responsibilities and liabilities of ecommerce at market place and product sellers need must be clearly defined [4]. Increasing internet and smart phone users prove that India have a bright future of online pharmacy, although this will bring few challenges with opportunity[5].

At present the leading ePharmacy players are- 1mg, Netmeds, MChemist, Myra, Medlife etc. Today around 150 startups are currently operating as online pharmacy.

The retail Pharma market in India have mainly three broad segments - branded generic drugs, non-prescription drugs and patented products. Branded generic drug is the highest contributing segment of the Indian pharmaceutical sector, with around 70% market share in terms of revenue whereas non-prescription medicines and patented drugs constitute 21% and 9%, respectively. Out of that the anti-infective market share is around 15.17%, followed by cardiac drugs market at 12.47%, gastrointestinal drugs market at 11.75%, vitamins / minerals / nutrients market at 8.78%, and anti-diabetic market at 8.13% [6].

**METHODOLOGY**

As the internet continues to grow in popularity, immense new opportunities arise, when it comes to immediate access to expert advice and information from health professionals. In this matter, online pharmacies are extremely beneficial(7). Patients who need to seek advice about their symptoms or discuss possible side-effects of treatments, can receive help in a timely and discreet manner. The online doctor and pharmacist can offer professional advice, resolve problems, diagnose and help with new and repeat prescriptions. Patients with long-term illnesses can also benefit from an online pharmaceutical service, as those who require multiple medications can get advice about dosage and timing requirements for their treatment.

Here is a list with five reasons why one can count on us:

1. **Efficient delivery and a simple ordering process.**

Our website provides quick delivery and a simple ordering procedure, helping to avoid the hassle of a long waiting period.

1. **Quick treatment with just one click.**

We intend to use technology in the best way, in order to improve the health and wellbeing of the patients. Our health professionals evaluate the condition with a series of questions and they approve a suitable prescription for the patient. Even more, one can benefit from quick access to a pharmacist via phone, e -mail or live chat; images can also be uploaded with your request.

1. **Expert advice and guidance.**

**We offer** instant access to expert services, professional doctors and pharmacy staff.

1. **Completely convenient.**

Our website offers some of the very best prices on medicines and pharmaceutical products, together with a fantastic service. We stock a great range of branded and non-branded products.

1. **Discreet services.**

Some people may feel more comfortable purchasing their treatment online, or simply want to discuss with a professional about prescriptions and health online or over the phone, rather than in person.

**RESOURCES**

**HARDWARE**

* A physical memory (RAM) of 4 GB and above are required
* Android mobile phone
* Hard disk capacity: Maximum 5 GB
* Laptop
* USB Cable

**SOFTWARE**

* Operating System : Windows
* Android Studio
* Chatbot
* Structured query language (SQL)

**PROJECT PLANNING**

**(SCHEDULING)**

**STAGE 1:** The requirement specifications from the first phase are studied in this

stage and the system design are conducted. This application provides a registration and login for both doctors and patients. The E-Pharmacy is easy to use and order. The customer selects the required medicines and orders them by a single click. Before it, the customer needs to create a login account and fill all the details like name, address, phone no…etc. Doctors can register by giving his necessary details like fee, category, etc. After successful registration, the doctor can log in by giving username and password.

**STAGE 2:** The client can able to view the status of the medicines. The business goal for the application is to provide the medicines to all the people & admin will provide the supplier details. Through this application people to consult the Doctor using Android phone. Doctor provides side effect, free and common tablet prescription which will be available in all medical stores. Emergency situations call can be established to the nearest Ambulance Station.

**STAGE 3:** Analysis of existing system is also carried out in this phase and the

limitations of the existing system are analysed and improved upon. Some new features

are also introduced during this stage like Lab Test, Wellness Product and Pharma

Guideline. Now user can also book Lab Test and buy several products online. Pharma

Guideline provides all information about medicines and their side effects.

**STAGE 4:** This application can be improved in the future by adding the following

functionalities: Video calls to discuss the problems with doctors and get online

prescriptions. Sharing the medical test reports of patients to doctors through this

application.

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