

INTERNATIONAL ISLAMIC UNIVERSITY ISLAMABAD
FBAS – Computer Science Department

TakeCare.com



Final Year Project

Submit by

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TakeCare.com

1. Introduction

Health is a basic human right. It is basic facility to have access to a quality of health care. There are lots of problems related to a medical field that are facing now a days. As everyone has facing the problem of Covid 19 all over the world. Due to Covid-19 lot of burden is on hospitals and doctors. Patients are also having difficulties in getting appointments, buying medications and maintain his health records. we are still using a manual system that is a time-consuming process, heavy work burden due keeping records manually on paper. Due to Covid issue patient cannot visit the doctor regularly. So that why we need a system which directly connect the patient to the doctor on regularly. So, we have develop a system to provide the best services to the patients regarding his health issue, appointment issue, medicine availability from the stores. This is a web base application. This system can provide a Various service to both patient and doctor. This system will help to the patient to don't have to wait long hours for appointments. Patient will be able to get an appointment form doctor any time, any place. Doctor can check the patient history on his dashboard and recommends daily wise tips.

Modules

➤ Admin authentication

This module is primarily admin based. The system will check the admin username and password for authentication. After the verification for authorization the admin can be able to proceed the process. All works are done under his control.

➤ Patient/User Module

This module covers the details about the registration of patient which they can be register by itself by adding data like Username, full-name, password, email id and further details. After registration they can sign in by their unique email id or username and password.

➤ Doctor Module

This module covers the details about the registration of doctor. The doctor will apply in the system by giving his personal information, contact, doctor license number and license card image, educational detail, specialty and further details. After Applying message is show "Your account approval is within 7 working days after verification". When the doctor account is approved by admin, he will receive an email that the doctor account is activated now please log in and set your profile.

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➤ **Email Verification Module:**

In this module when new user is register then send a email for verification and for activation of account.

➤ **Appointment Module**

In this module we facilitate the patient for appoint a doctor online on his city are according his need (Specialization, Male or female)

➤ **Medical History Module**

In this module the patient history is record in system i.e., which doctor is assigned what type problem he has and descriptions.

➤ **Health Tip Module**

In this module doctor upload, the health tips and also suggest medicines and any patient can watch and read the health tips and also filter the tips according to symptoms

➤ **Medicine Store Module**

This module is based on online store. Where patient can search the medicine which needed then place the order.

➤ **Social Contact APIs Module**

In this module we ingratiate WhatsApp, Email APIS which provides quick response for the patients.

➤ **Payment Modules**

In this module we providing online transaction to the customer for online buy and appointment system.

➤ **Discount Modules**

In this module we providing the discount for serval product according discount percentage.

1.1 Purpose

The main aim of this project is to help patient for their heath care problems. This project provides a system that automate the manual system which has difficulty to maintain patients' history as well as his appointment. This system replaces the manual appointment system which reduce the burdens on hospitals. Patient time and cost both will be save by this system.

These objectives are given below briefly.

- This System will provide to connect directly. Patient and doctors through internet.

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- This System provide facilities to modify and delete patient's data as well as doctor's data.
- This System provide contact system.
- This System provide some social media links.
- This System provide information about the medicine product Packages.
- This System maintain & control the database of patients and doctors' information.
- This System display health tips.
- This System give a variety of doctors services that will sure to match all your priorities.
- This System help to make strong relationship with patient so that they can contact with doctors regularly
- This System also helps to store medical history of patient.
- This System will provide patient's dashboard where he can consult with his doctor.

1.2 Scope

we have develop a system to provide the best services to the patients regarding his health issue, appointment issue, medicine availability from the stores. This is a web base application. This system can provide a Various service to both patient and doctor. This system will help to the patient to don't have to wait long hours for appointments. Patient will be able to get an appointment from doctor any time, any place. Doctor can check the patient history on his dashboard and recommends daily wise tips.

1.3 Reference

Some of the Apps and website are
www.mhdpakistan.iom.int.com
www.ringadoctor.com

2. Positioning

2.1 Business Opportunity

Covid-19 has taught all of us to live a different lifestyle across the world. Many small business ideas are getting shut down now, as people spending has almost come to halt. One of the evergreen sectors is health care. There are enormous healthcare business opportunities in Pakistan. There is small business to moderate business to large scale business which you can start in the healthcare segment. Which is the best Healthcare related business ideas in Pakistan?

In the current scenario, everyone can buy medicine and consult the doctor package from anywhere globally through the internet on mobile or computer. Now people have started thinking about it more appropriately and continuing to follow these trends. If you are thinking of your health care business through the online platform, it will be much better to make money online. You should be aware of the package demand that you will offer. To start a

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travelling business and make money online, at first you must keep in mind some essential points, such as what kind of package you want to sell and the public demand. Further, you have to check whether you can easily cancel or modify the health package as per the customer's choice, whenever the requirement comes to you.

2.2 Problem Statement

The problem of	<ul style="list-style-type: none"> ➤ The manual system of patient and doctor records ➤ . Slow and time consuming. ➤ Inconsistency in data entry, room for errors, mis keying information. ➤ Large ongoing staff training cost. ➤ Duplication of data entry.
Affects	➤ Patient, Doctor
the impact of which is	➤ Due to the manual systems in use, the whole process tends to be slow.
a successful solution would be	<ul style="list-style-type: none"> ➤ Increase the process of whole system. ➤ The proposed System reduces human resource required – staff, wastage of time and proves to be very economical in the long run. This project can be further enhanced to provide better security, flexibility and performance with certain modifications whenever necessary.

3. Stakeholder and User Descriptions

Stakeholder description:

- Name: Admin
- Brief Description: Admin will be able to manage all the data record of the health system. Any sort of errors will result in time loss for the patient and thus resulting in their loss of interest for the system, which will directly affect the online healthcare business.

User description:

- Name: Patient, Doctor
- Brief Description: Patient and Doctor are both system users. Patient will order any package using the system while Doctor as a user will consult the patient and provides health tips.

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3.1 Stakeholder Summary

Name	Description	Responsibilities
➤ Admin	➤ Owns the system and manages all the packages the on the system	➤ Achieve appointment Targets ➤ Ensures that availability of doctor. ➤ <i>Make sure to keep the packages updated</i>

3.2 User Summary

Name	Description	Responsibilities	Stakeholder
Patient	any user who is interested in buying product or get appointment from the system	➤ Create Account before ordering any package or get appointment ➤ Must have an online payment account	➤ //
Doctor	<i>someone to who consult the patient and provide tips.</i>	➤ Manage Heath Tips ➤ Manage appointment times ➤ <i>Manage issues</i> ➤ Create Account	

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3.3 User Environment

To run the system; user needs a computer connected to internet to get appointment and a payment account for the payment. While the admin needs a computer system with a Django server and working internet to manage all the system.

4. Product Overview

4.1 Comparison with the Existing/Alternative Solutions

Existing System

In the present system a customer has to approach various doctors to find their detail.

- Patient have to wait a lot for his appointment.
- Patient do not have backup of his medical report, and has to take all his report to doctor every time.
- It is difficult for patient to consult his doctor regularly.

Proposed System

The proposed system is a web-based application and maintains a centralized repository of all related information.

- The system allows one to easily access the relevant information and make necessary appointment arrangements.
- Doctor will provide appointment time to patient for meetup.
- This system will help the patient not to wait long hours for appointments.

Sr No.	Characteristics	Manual System(current existing system)	Take Care.com (Proposed System)
1	Keeps user records	✓	✓
2	Fast processing		✓
3	Keeps backup of data record		✓
4	Free Health Tips		✓
5	Convenience/Comfort		✓
6	Buy medicine on discount		✓
7	Less chances of errors		✓
8	No Queues		✓

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5. Product Features

- User-friendly booking options.
- Manage Appointment
- Easy Payment Options
- Being in touch with the patient and doctor
- User Management
- Easy Medicine Availability
- Keeps backup of data records
- Manage Issues
- Buy Medicine at Discounted rates
- Health Tips

6. Constraints

It's important to understand what factors reduce and save patient through the system Take Care. All these factors can also be considered as factors influencing patient.

Money

Patient is not only a get appointment but also need medicines a from his budget. So the most commonly recognized constraint is money.

Time

Due to the covid issue the burden on hospital and doctors is increase so it is difficult for some one to get appointment t or visit hospital regularly.

7. Other Product Requirements

7.1 System Requirements

- The system must run on windows 7,8,10 and above with an active internet and Django server.
- Performance Requirements
- None specified.
- Environmental Requirement
- None specified.

➤ Hardware requirements

Minimum requirements:

- ✓ Computer
- ✓ Processor: core2dual
- ✓ 2GB RAM

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- ✓ 500 HDD
- ✓ External back up (disks) – @ 200 GB
- ✓ Research and internet costs
- ✓ Printing and photocopying
- ✓ Stationary
- ✓ Labor Cost

Recommended requirements:

- ✓ Computer
- ✓ Processor: core2dual
- ✓ 8GB RAM
- ✓ 500 HDD
- ✓ External back up (disks) – @ 500 GB
- ✓ Research and internet costs
- ✓ Printing and photocopying
- ✓ Stationary
- ✓ Labor Cost

➤ **Software Component System Requirement:**

- ✓ Browsers: all browsers
- ✓ Server: Django.
- ✓ Operating System: Windows 7, 8,10 and above.
- ✓ Back end: Sqlite3, Python Django, JavaScript.
- ✓ Front end: HTML, CSS, JavaScript, adobe photoshop., bootstrap