**Project Name**

**EFFICIENT DOCTOR-PATIENT PORTAL**

**~Submitted By**

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**COURSE NAME: OBJECT ORIENTED ANALYSIS AND DESIGN.**

**SECTION: I**

# **Problem Statement (write at least 350 words)**

Bangladesh has a population of 168 million. But the number of qualified doctors is not up to the mark. According to the economic survey of 2018, there will prevail only one doctor for each 2039 people. Every day, a huge number of patients show up at different doctor’s chamber. They have to wait on a long queue to get a serial number. Then again, they have to wait a certain amount of time until their serial comes so that they can finally visit their respective doctor. Clearly, it is quite a lot time consuming and an inefficient process as well. Whenever, any patient fails to be on time or goes out of town for any emergency purpose, he completely misses the appointment. It results in losing his/her valuable time as well as money for which he has to follow the same painful process once again. Besides, every time a patient visits their doctors, he/she has to carry their old prescription, test reports and other necessary documents which are quite a bit troublesome. On the contrary, there is a problem of brokers in every hospital. It is such a huge problem that many articles and news have been published on the daily newspapers regarding it. For example- If someone is trying to donate an organ or wanting to transplant one, he/she is likely to be a victim to that broker. In many cases, he may be even bamboozled. So, in our country finding a doctor who is qualified enough visit him regularly and donate or search for an organ are not so easy. Rather, keeping our body healthy and safe from disease is one heck of job in present times.

# **Existing Solution(s) (write at least 350 words)**

In Bangladesh perspective, the existing solutions of the stated problem regarding appointments and organ transplantation of patients are quiet few in number. The solution to the problem which prevails in recent times includes direct phone calls, emails and usage of different social networking sites. At an instant, suppose a patient wants to book an appointment for his/her respective doctor. So, he/ she need to make a direct call to that particular doctor or a hospital receptionist in order to place an appointment under his/her name. Sometimes, a situation might arise where a patient fails to place an appointment for some inconvenience for which he/she cannot get the required treatment from that doctor. Another alternative for booking appointments are emails. Email comes a bit handy sometimes when there is a huge queue of patients. But a certain doctor may have a lot of patients to deal with and so as the receptionist of a hospital. So, reading out emails one by one and sorting out patients with their suitable appointment dates and desired doctors are not so easy and efficient enough. On the contrary, while dealing with organ transplantation, the pain and pressure that a patient and their relatives has to face, knows no bound. Because for organ transplantation, usually patient’s family uses different social medias and newspapers in order to get a donor. But, even after uploading a post on social networking sites and so on newspapers, patients do not get suitable donor on time. Rather, it takes a huge time to get a single donor. So, we can conclude that, the existing solutions are time consuming and not efficient enough to provide patients with proper treatment on time and a severe attentions needs to be strike in these particular issue regarding treatment of patients and organ transplantation.

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| Image result for block diagram of a software system |
| **Sample Block Diagram** |

# **Proposed Solution (write at least 350 words)**

We are here to propose a Doctor-Patient handling managing system more likely to be said, a portal that helps doctors in their work and also patients to book doctors for appointments and view medical progress. There will be a search engine by the virtue of which users can easily find out their desired doctors and also customize the appointment facilities. The system allows doctors to manage their booking slots online. Patients are allowed to book empty slots online and those slots are reserved in their name. Patients can also cancel their booking in case of their inconvenience. The system manages the appointment data for multiple doctors for various date and times. Each time a user visits a doctor his/her medical entry is stored in the database by a doctor’s assistant. Every time a user logs in, he/she may view his/her entire medical history as when needed for which they will not have to carry their old prescriptions and test reports. At the same time, a doctor may view patient’s medical history every time the patient visits him. This allows for an automated Doctor-Patient handling system through an online interface. There will a feedback option under which we will deal with user’s reviews and our drawbacks easily so that we can improve our portal even more. Our system also consists of organ donor module. This module allows for organ donation registration as well as organ search. The module is designed to help patients with urgent organ requirements through instant searches. We believe our portal will help people from all walks of life to get proper treatment which is their basic need. We have worked together to put emphasis on health issues and presenting a portal which is time efficient and user friendly.

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| **Sample Block Diagram** |

# Project/System Scopes (Write in bullet format)

# System Features (Write in bullet format)

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| Sample Feature Infograph |

# USE CASE Diagram

# User Stories

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