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| Module Code: SOFT255SL | Module Name: Software Engineering for the Internet using Java | |
| Coursework Title: C1 and P1 | | |
| Deadline Date: 28th April 2021 | | Member of staff responsible for coursework: Mr.Kaneeka Vidanage |
| Programme: BSc Honours Software Engineering | | |
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| Group work: please list all names of all participants formally associated with this work and state whether the work was undertaken alone or as part of a team. Please note you may be required to identify individual responsibility for component parts.  G.M.D.D. Ratnayake – 10707351  S.O. Perera - 10707315  M.D.A. Medhavi - 10707278  P.P.L. Dilhani - 10709402  S.S.N.S. Nevins - 10707291  ***We confirm that we have read and understood the Plymouth University regulations relating to Assessment Offences and that we are aware of the possible penalties for any breach of these regulations. We confirm that this is the independent work of the group.***  A picture containing text  Description automatically generated  Signed on behalf of the group: | | |
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# Introduction:

We have created a web-based software application for a large-scale hospital. Hospitals are jammed these days and patients; doctors and other staff members waste time and energy to just make an appointment. With the system we have created you can now make appointments while you are at home with just your own electronic device.

This system will be a life safer as we are now in a pandemic now and gathering in large scale groups would cause this virus to spread more but since you are safely at home, we can now even make the world a safer place to live in.

# The problem that needs to be solved:

From the year 2019 -2021 the world has fallen into the hands of a virus; this virus is spread worldwide, and most hospitals are at aid running off at maximum capacities to help people. And with the normal amount of people also going into the hospital and people who also got affected by the virus is also now going in. The number of people who are infected with the virus are increasing daily and is exceeding the number of 1000’s.

As there are now more and more people to deal with, the staff in a hospital will have to face some issues when making appointments and when appointing them to rooms. Because of the large number of people entering the premises and due to the fear of the virus spreading it would be much easier for patients and doctors to check in from a safe distance and now they have the capability to do this while staying at home or anywhere around the world.

People must go through lot of regulations once they go to the hospital such as filling out forms, checking temperature and washing hands. Since there is a lot of work to be done within the premises of the hospital, it would be safer to all people to do this at home.

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# How we can solve this problem:

To fix the problem that we mentioned we have created a system to check in for any patient to the hospital and with this method it is just a click away. People can now go to the doctor’s appointment without having to go through all the hassle of waiting in queues and having to fill out forms when all of this can be done at home with just your personal electronic device. This system gives you the **capabilities to add an appointment**, you can also delete the appointment if needed and you can also view the given appointment.

# The 04 categories:

We have 04 categories for the system we created:

1. Patient
2. Doctor
3. Receptionist
4. Room

With these four categories we have created a large-scale web-based software for a hospital, the main people who should be present in a hospital is doctors and patients. So regarding that factor we have created this system for all the required people who are generally regarded in a hospital.

## Patient:

The patient has the potential to:

1. Add an appointment:

Patient now has the aptitude to add an appointment after Sign in or Signing Up. With this appointment you can get to meet the doctor you need.

1. View an appointment:

If you have the need to check the appointment you added you can always head back to the website and check for needed information.

1. Delete an appointment:

If you perceive the need to delete the added appointment, you have to go to the website where you added the appointment and delete it.

## Doctor:

The doctor/s has the potential to:

1. Discharge Patient:

We should always have to have the permission of the doctor to discharge a patient from a hospital, now the doctor itself can discharge the patient himself if he sees that the patient does not need to be at the hospital anymore.

1. Update Profile:

Doctors can always change their profile the way the like, this would be of the doctor’s personal choice to do so.

1. View Appointment:

Doctor can check the appointments that the patients have added to the system using the website.

1. View Patient:

Doctor can check the user’s disease and what they want the appointment is for and also can check the age and other given factors needed.

1. View Room/Ward:

The doctor can check if there are any patients or where there are patients in the ward.

## Receptionist:

1. Add Room:

Only the receptionist can add a room for you, (ask Mujeeb).

1. Update Room:

(ask Mujeeb).

1. View Room:

(ask Mujeeb)

1. Add Doctor:
2. Add Patient
3. Update Patient
4. Billing of Patient:

The receptionist bills the amount you have to pay for the end of your appointment which you can then view.

1. View Appointment

## Room:

# Screenshots of the web pages:

# Future Implementations:

# Conclusion: