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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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# Introduction:

We have implemented the knowledge that we have inherited from following this module into creating a web-based software application for Ceylon Hospital. Due to the current situations that have arisen from the Covid-19 pandemic, hospitals are jammed. Patients, doctors, and other staff members waste their valuable time and energy to simply make an appointment. The system we have created ensures for the staff in the hospital to make appointments for you faster and safer.

This system will aid in 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 are 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 by 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.

People must go through lot of regulations once they go to the hospital such as filling out forms. Now this can be time consuming and can create unnecessary queues within the premises of the hospital and for this to not happen our system comes into work.

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# How we can solve this problem:

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 via a system in a single computer. 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 03 categories:

We have 03 categories for the system we created:

1. Patient
2. Doctor
3. Receptionist

With these three 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, regarding that factor we have created this system for all the required people who are generally in a hospital.

## Patient:

The patient has the potential to:

1. Add an appointment:

Patient now has the aptitude to add an appointment after Signing 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 can 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 they want to, 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 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 the patient regarding the disease that the person has.

1. Update Room:

Once patients get discharged it is having to be updated, now the receptionist can do so once changes are made.

1. View Room:

Receptionist can view the room the patient is in and check if there is any more patients we can add to this room/ward.

1. Add Doctor:

Receptionist can add doctors into the system.

1. Add Patient:

Receptionist can add patient to the system, after the patient has signed up or signed in after making an appointment.

1. Update Patient:

Patient can be updated regarding different factors like; needs to see a different doctor or must edit other factors.

1. Billing of Patient:

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

1. View Appointment:

Receptionist can also view the added appointment by to make necessary changed to the patient/room or other factors.

# Screenshots of the web pages:

# Conclusion:

We have successfully created this system for Ceylon hospital using servlets and other web-based factors for it. With this system now every aspect of the hospital can be faster, and it will be of an advantage for all the hospitals around the world to use such a system.

# Group Members:

S-Supporting Member

R-Responsible Member