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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 | | |
| Please note that University Academic Regulations are available under Rules and Regulations on the University website [www.plymouth.ac.uk/studenthandbook](http://www.plymouth.ac.uk/studenthandbook). | | |
| 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: | | |
| Individual assignment: ***I confirm that I have read and understood the Plymouth University regulations relating to Assessment Offences and that I am aware of the possible penalties for any breach of these regulations. I confirm that this is my own independent work.***  A picture containing text  Description automatically generated  Signed: | | |
| Use of translation software: failure to declare that translation software or a similar writing aid has been used will be treated as an assessment offence.  I \*have used/not used translation software.  If used, please state name of software………………………………………………………………… | | |
| **Overall mark \_\_\_\_\_% Assessors Initials \_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_** | | |

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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 that the staffs in the hospital make appointments for you in faster, safer and more efficient manner.

# The problem that needs to be solved:

From the year of 2019 all the way to the current year, the world is suffering in the hands of a deadly virus. Most hospitals that aid patients are running off at maximum capacities to help these people. If you include the normal amount of people that go to the hospital and people who are affected by the Covid-19 virus, the number of people who visit the hospital is tremendous.

As there now are more and more people to deal with, the staffs in hospitals are facing issues when making appointments and when appointing them to rooms. Due of the largesse number entering the premises daily and the astounding fear of the virus spreading, it would be easier for patients and doctors to check in from a safe distance.

Patients must go through lot of regulations once they go to the hospital such as filling out forms, etc. 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 play.

# How we can solve this problem:

People can now go to the doctor’s appointment without having to go through 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, view and delete** an appointment.

# The 03 Entities:

We have 03 entities for the system we created:

1. Patient
2. Doctor
3. Receptionist

With these three entities, we have created a large-scale web-based software for Ceylon 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.

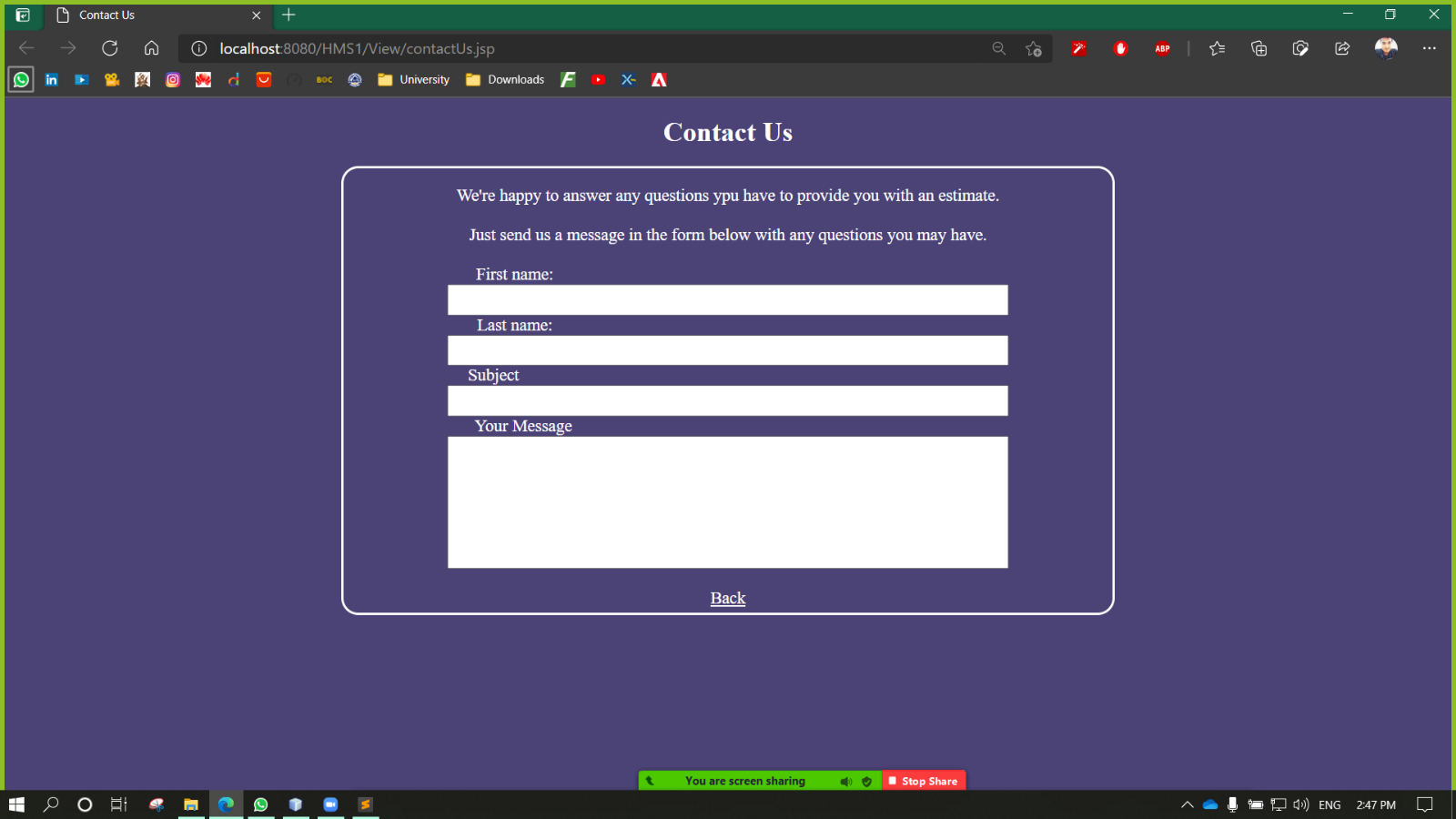
1. View Appointment:

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

# Screenshots of the web pages:

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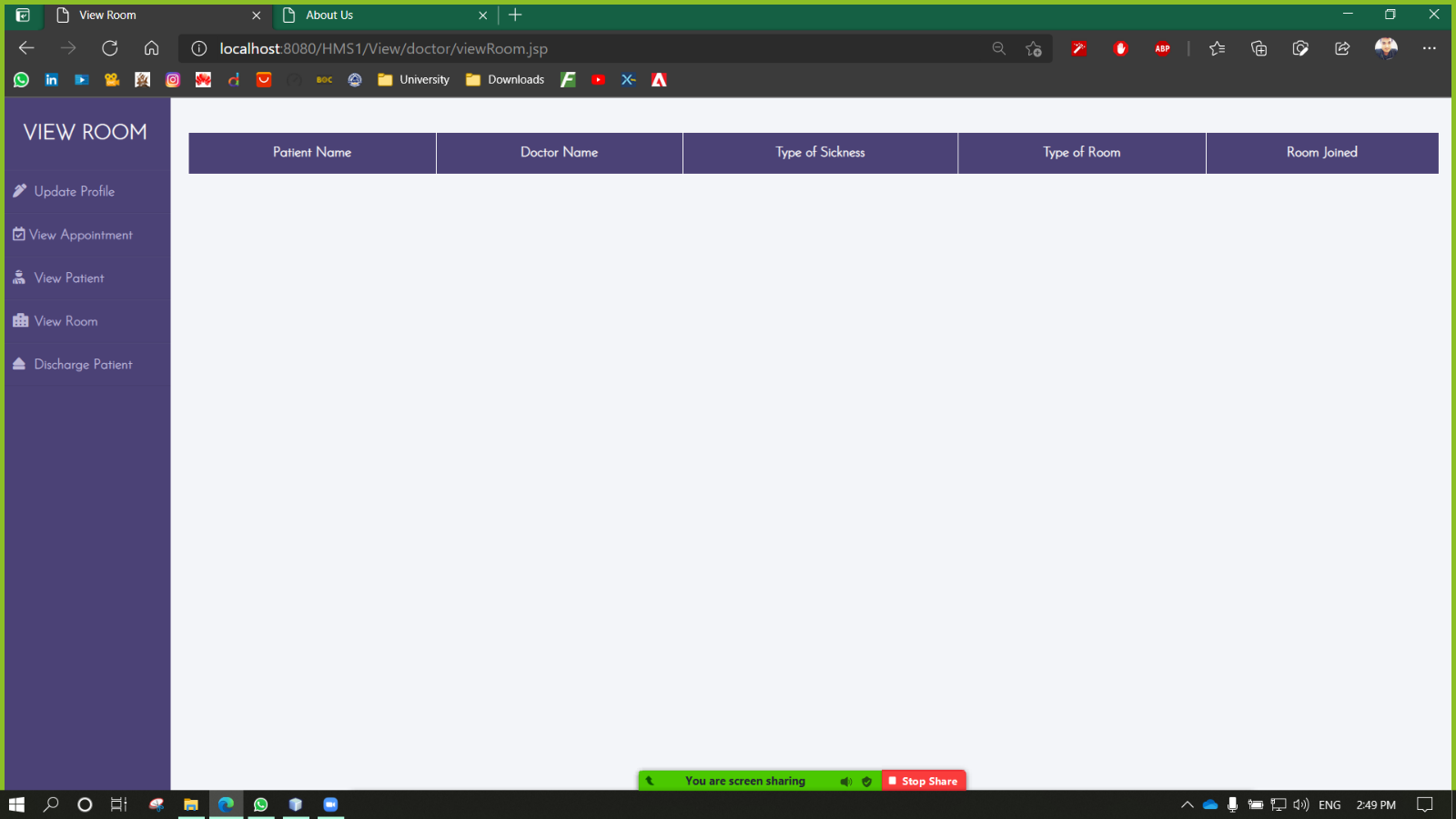
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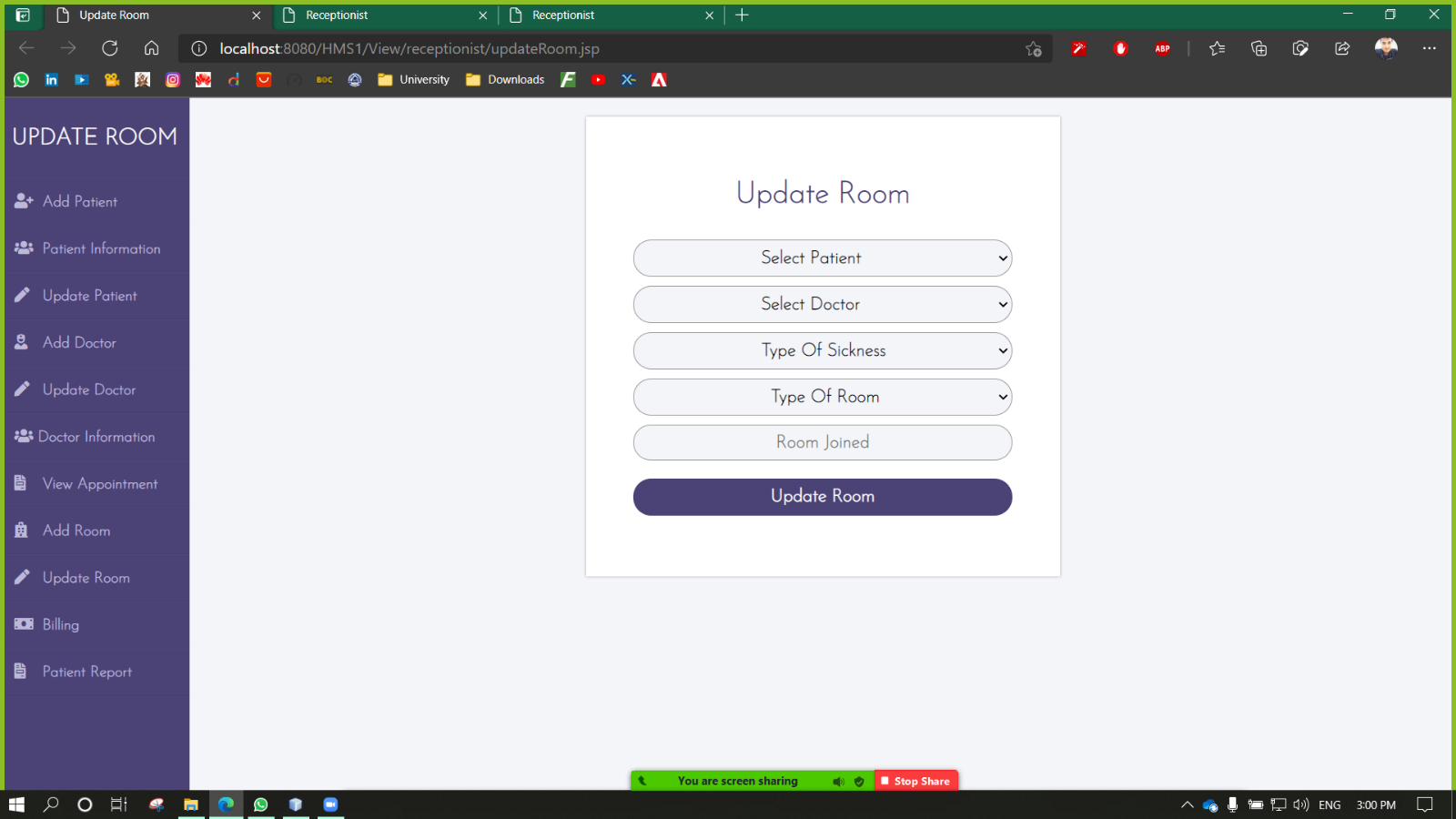
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# Database Diagram

Diagram

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# Website Map

Diagram

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# 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, efficient and effective. It will be of a valuable advantage for all the hospitals around the world to use such a system.

# Group Members:

S-Supporting Member

R-Responsible Member

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| --- | --- | --- | --- | --- | --- | --- |
| Group Members | J.A.Mujeeb  (10707284) | S.O.Perera  (10707315) | G.M.D.D.Ratnayake  (10707351) | S.S.N.S.Nevins  (10707291) | M.D.A.Medhavi  (10707278) | P.P.L.Dilhani  (10709402) |
| Patient | S | R | R | S | R | S |
| Receptionist | R | S | S | R | S | R |
| Doctor | R | R | R | S | R | S |
| Home | R | S | S | R | S | S |
| Room | S | S | R | S | R | S |
| Billing | S | R | S | R | S | R |
| Medical Report | S | S | S | S | R | R |