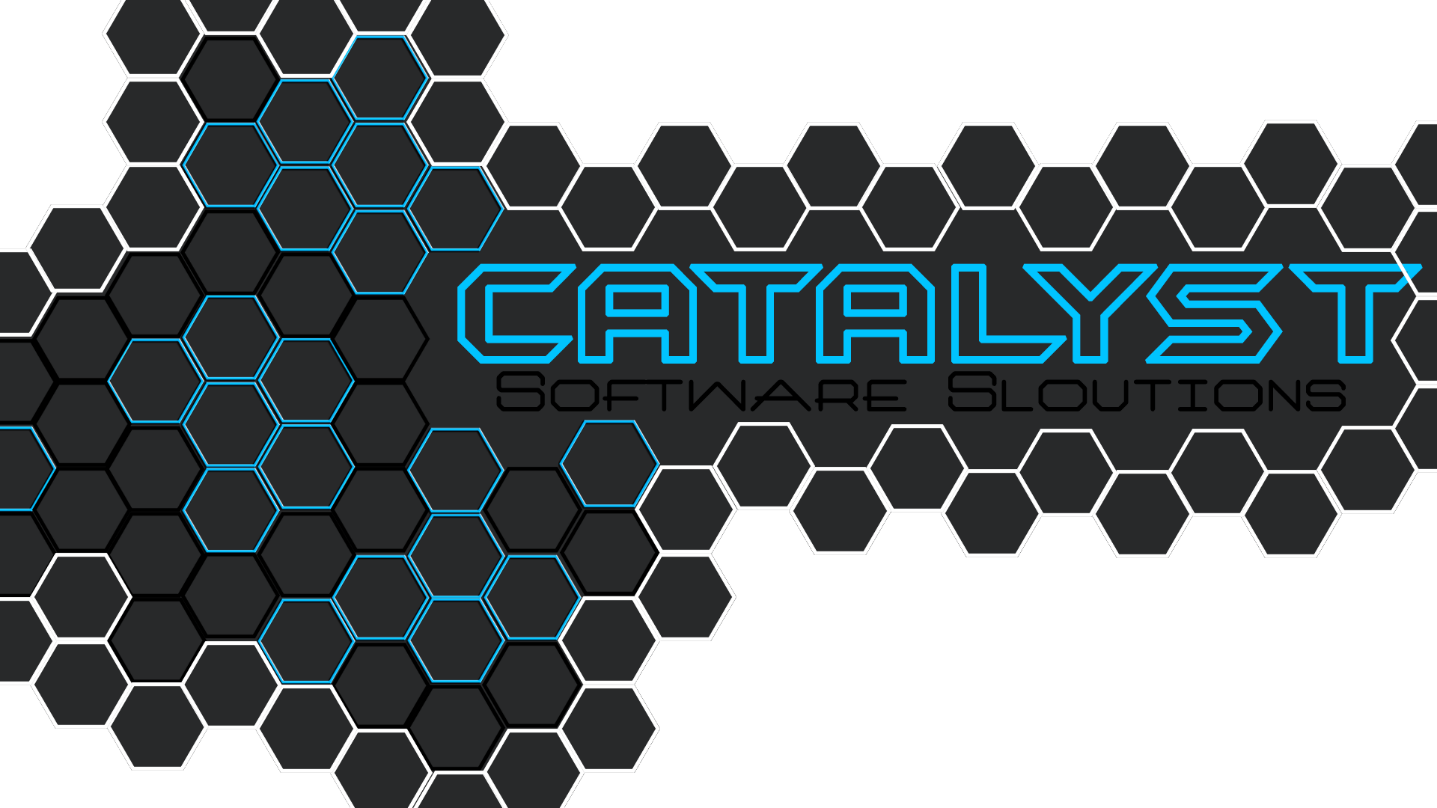
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| Name:  **Perera, L. Pasindu.** |
| Student Reference Number: **10568999** |



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| --- | --- | --- |
| Module Code: ISAD253SL | Module Name: Databases | |
| Coursework Title: Hospital Management System | | |
| Deadline Date: 3rd January,2016 | | Member of staff responsible for coursework: Ms. Dileeka Alwis. |
| Programme: BSc (Honours) Software Engineering, Computer Networks, Computer Security. | | |
| 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.   |  |  | | --- | --- | | **Vidhanahena, I.P. Oshajith** | **10569207** | | **Perera, L. Pasindu (Team Leader)** | **10568999** | | **Chanuka, K. Imalsha** | **10569083** | | **Rathnayaka, R.M.K.S.B** | **10569071** | | **Wijesekara, J. Chanath Rajindra** | **10569206** |   ***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.***  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.***  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\_\_\_\_\_\_\_\_\_** | | |

**PROJECT REPORT**

**ISAD2543L-Databases**



**HOSPITAL MANAGEMNT SYSTEM**

**Project By: Catalyst Software Solutions**

**Team**

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| --- | --- |
| **Name** | **Index** |
| Vidhanahena, I.P. Oshajith | 10569207 |
| Perera, L. Pasindu (Team Leader) | 10568999 |
| Chanuka, K. Imalsha | 10569083 |
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**Abstract**

This is the Project Report document for the coursework of the module ISAD253SL (Databases) for the 2nd year 1st semester of the programmes BSc (Honours) Software Engineering, Computer Networks and Computer Security of the Plymouth University, U.K. which are conducted in National School of Business Management, Sri Lanka. The focus of the coursework of the module ISAD253SL is to analyze a real-time scenario with problematic environment and develop the best solution for the problematic scenario by applying the database design concepts and using a database development tool like SQL.

**Team and Workload**

|  |  |  |
| --- | --- | --- |
| Index Number | Name | Work Load |
| 10569207 | Vidhanahena, I.P. Oshajith |  |
| 10568999 | Perera, L. Pasindu (Team Leader) | EER, Stored Procedures |
| 10569083 | Chanuka, K. Imalsha |  |
| 10569071 | Rathnayaka, R.M.K.S.B. | Mapping |
| 10569206 | Wijesekara, J. Chanath Rajindra |  |

Introduction

Project Report Introduction

This document is a to describe requirements for a Hospital Management System which keeps records and maintain all the information regarding every aspect of a usual Hospital. This report also contains the constraints, assumptions and system implantation details and such information about the suggested system.

Project Introduction

This project covers a Hospital Management System which is developed by applying database development concepts and using SQL technology. The system is developed to keep records of each element of the hospital such as departments, rooms, staff and patients. The system is also capable of maintain the information about the mentioned elements and can manipulate data accordingly. The system will make most of the management processes of the Hospital autonomous and will reduces the workload of the staff and minimize the use of resources.

Scope

Project cover the most of the aspects of the Hospital such and Human Resources Management, Departments, Room allocation, Patient Examination, Patient Admitting, Patient Discharging, Treatments, Surgeries and Drug Issuing.

General Description

Scenario

Organization – City Central Hospital

Specialties - Multi-Specialty Hospital

Identified Elements – Departments, rooms, doctors, nurses, attendants, other staff, patients, Surgery, Check-ups, Drugs, Treatments.

Scenario Description

Departments

City Central Hospital has few department like Orthopaedic, Pathology, Emergency, Dental, Gynaecology, Anaesthetics, I.C.U., Blood Bank, Operation Theatre, Laboratory, M.R.I., Neurology, Cardiology, Cancer Department, Corpse, etc.

OPD

Hospital has a OPD (Outpatient Department) where patients visits for check-ups with doctors.

Patients

Information about the patient is collected when patient arrives at the hospital.

Non-Admitting Patients

An Entry card for a patient is generated and sent to doctor.

Every patient has unique patient number.

Admitting Patients

Patient can choose a private of general room when admitting according to his/her preferring.

Before admitting patient has to fulfil some formalities such as room charges and etc.

When admitted patient number, payment method, advanced payment and such information are recorded.

When admitting, the patient may choose either a private or a general room according to his/her need. But before getting admission in the hospital, the patient has to fulfil certain formalities of the hospital like room charges, etc. When a patient is admitted, information like patient number, advance payment, mode of payment, room number, department, date of admission, initial condition, diagnosis, treatment, number of the doctor under whom treatment is done, gradient details and contact information, etc should be tracked. Patient number, department, doctor number, room number must be valid.

Requirements

Functional Requirements

Non – Functional Requirements

Users

Constraints

Assumptions and Dependencies

Software Used

System Design

ER and EER Diagrams

Relational Mapping

Normalization