

**American International University- Bangladesh**

**CSC 1205: Object Oriented Programming 1 (JAVA)**

**CO4 Evaluation**

**Project Concluding Report**

**Spring 19-20**

**Group ID: 2**

**Project Title: Health Care Management System**

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**Introduction:**

*Why you are doing this project? (No more than 60 words)*

Health care currently uses a manual system for the management and maintenance of critical information. The current system requires numerous paper forms, with data stores spread throughout the health care management infrastructure. Forms are often lost in transit between departments requiring a comprehensive auditing process to ensure that no vital information is lost. We are doing this project to standardize data, consolidate data ensuring data integrity and reducing inconsistencies.

**Problem Analysis:**

*What kind of problem is being solved with this project? Who will use this application?*

*(No more than 60 words)*

The Health care Management System is designed for any Health care to replace their existing manual, paper based system. The new system is to control the following information, patient information, staff and operating room schedules, and patient invoices. These services are to be provided in an efficient, cost effective manner, with the goal of reducing the time and resources currently required for such tasks.

**UI Design Analysis:**

*How will the users interact with this application? How can it be improved?*

*(No more than 60 words)*

Design is the first step in the development phase for any techniques and principles for the purpose of defining a device, a process or system in sufficient detail to permit its physical realization. This project needs some technical activities - design, coding, implementation and testing that are required to build and verify the software . In future we will implement

Database and online feature to improve this project.

**Logical Analysis:**

*How much logic has been applied in this application? Are the applied logics working properly? Is there any logical limitations?*

*(No more than 100 words)*

**Module-1**: Reception.

**Description**: The reception module handles various enquiries about the patient's admission, employee salary and the patient's movements within the health care.

**Module-2:** Administration.

**Description**: This module handles all the master entry details for the health care requirement such as consultation detail, doctor specialization, consultancy fee, and service charges.

**Module-3:** Drugs.

**Description**: This module deals with all medical items. This module helps in maintaining Item Master, Receipt of Drugs/consumables, issue, handling of material return, generating retail bills, stock maintenance.

***Module-4:*** *Doctors.*

**Description**: This module handles all the master entry details for the hospital requirement such as consultation detail, doctor specialization, consultancy fee, and service charges.

**OOP Concept Analysis:**

*What are the OOP1 principles used in this project? How have been they applied? Explain the OOP concepts used in this application (No more than 3 sentences per concept)?*

*(No more than 160 words)*

So we have used the principles Encapsulation, Polymorphism, Inheritance but Abstraction was not used because we used dynamic data and user input . For the Encapsulation part we used in the J Table so that the different data types can be stored under the same types of data like name, age etc. We used Polymorphism on the GUI windows to specify the different actions that will be performed for different inputs. Finally We used Inheritance to make the GUI by inheriting J Frame to our classes.

**Impact of this Project:**

*What impact this project will have on the society and economy? How will people be benefitted from your project?*

(Maximum 80 words)

The project has been tested for impact in the following points Technical ,Economical and Operational feasibility. This application avoids the manual work and the problems concern with it. It is an easy way to obtain the information regarding the various travel services that are present in our System.

**Limitations and Possible Future Improvements:**

(Maximum 80 words)

The package was designed in such a way that future modifications can be done easily. The following conclusion can be deduced from the development of the project.

 Automation of the entire system improves the efficiency.

 System security, data security and reliability are the striking features.

The next is we will develop online services. That mean, if patient have any problems he can send his problem to the doctor through internet from his home then doctor will send reply to him.

***[Note: Make sure that your report is maximum 3 pages (including cover page).]***