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| **SEMESTER** | | | **FALL** | **CLASS AND SECTION** | | **BSCS-1B** |
| **TITLE OF PROJECT** | | | | | | |
| **HOSPITAL MANAGEMENT SYSTEM** | | | | | | |
| **GROUP MEMBERS** | | | | | | |
| **S#** | **Student(s) Name** | | | | **Enrollment Number** | |
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| **EXECUTIVE SUMMARY OF PROJECT PROPOSAL** | | | | | | |
| *Our project is based on Hospital management system a user-friendly program that will be developed using C++. This software can be used in any hospital for:*  *• Appointment Management*  *• Billing Management*  *• Pharmacy Management*  *• Maintain the contact details of the patient*  *• Operation theater*  *• Print Hospital Data*  *• Print Patients Data*  *• Beds Price*  *• Available Beds*  *• Manage Patient Info*  *• Different Categories*  *• Each Category Has Different Record Info*  *• Display Overall Patient Info*  *• Can Appoint a Patient*  *and much more*  *The major objective of this software is to store and organize data. It will help to reduce searching time.* | | | | | | |
| **PROJECT PURPOSE** | | | | | | |
| Hospital management system is a program that aids in the registration of complete patient data. It records and retains as well as helps the staff in managing the patient’s medical history, treatment needs, appointed doctors for each patient, past visit details, planned appointments, reports and more. These are all stored in the patient’s electronic medical record. | | | | | | |
| **PROJECT SCOPE AND OBJECTIVES** | | | | | | |
| It’s simple yet user friendly software which includes the use of C++ functions and structures to store user data permanently. This system will be used in any hospital, clinic, dispensary, or pathology labs to get the information from the patients and then store that data for future usage. Furthermore, hospital staff maintain records and handle patients. To use this software, the hardware required by the user to interact is a simple monitor screen and an attached keyboard. | | | | | | |
| **PROJECT DESCRIPTION (most important part)** | | | | | | |
| The main goal of our project is to create a fully functioning “Hospital Management System” program, using language C++. It will be an easy-to-use software program for the staff of the Hospital to manage patients as well as new Patients being admitted, including their details. The main services availed from this program range from Admission management, which ranges from a basic Appointment system that appoints a patient a bed and a doctor. Billing management, that enables ease in processing of payments of each patient regarding the beds they are in, their medications, and the operations performed on them. Pharmacy Management is also an important application where all the different meds prescribed, and their fees can be stored which are given to the patients. An important Functionality is storing the patient’s info from their name, date, age, date of admission, date of discharge and the beds they are in. This Program is going to using multiple algorithms used in C + + for example, Loops used to constantly pull up different menu that are generated on screen to be used by either, as well a mixture of decision statements that allow initiating the process of entries in the system. Functions will also be used to connect each operation that occurs in the main module, to make the programming structured. Switch statements will make the program efficient by displaying on the menu, the information required and not displaying all patient, Admin/staff, and pharmacy menus all at once. Lastly Array, and even more importantly structs will be used to store all variables/data ranging from hospital’s data, pharmacy’s data, and most importantly patient’s info. In short, this program will basically be created using different variables and string present in C++ for its development in a very easy and simpler manner thus we expect it to be accepted due to the lack of complexity it has and its decent yet simple format and manner. | | | | | | |

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| **TEAM PROFILE** |
| WASSAF AHMED BALOCH: Programming, Leadership  MUHAMMAD ZAIN MOMIN: Documentation, organization, and programming.  MARYAM AYUBI: Presentation, design and programming.  NOMAN ARSHAD: Documentation, presentation and programming. |
| **ASSUMPTIONS AND CONSTRAINTS** |
| The hospital management system offers plenty of functions for the client. It is user friendly, easy to install and operate. Hospital manager system aims to provide multiple functions such as Patient structure and staff management which includes Id, reason of admission, date of admission. Data can easily be stored, updated, deleted, and viewed. The software is coded using C++, so the code management is structured it can easily be modified according to the client's needs. The hardware requirement is minimal so it can be executed on both lower end and higher end devices. It has a human error checklist such as Unique id and correct data type, so the client enters correct data. Invalid input will be rejected, and the error will be prompted on the screen telling the user the issue. It is easy to maintain it. |
| **PROJECT DELIVERABLES** |
| **Deliverables include:**   * Software Project Proposal. * Project progress * Project report * Team member’s work, as per their contribution, you should have to be honest with your future. |

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| **For Teacher Use Only** |

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| **REMARKS (if any)** |
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| **Course Teacher:** |  | **Signature** |  | **Date:** |  |
| **Lab Teacher:** |  | **Signature:** |  | **Date:** |  |