**DEPARTMENT OF COMPUTER SCIENCE**

**DATA STRUCTURE & ALGORITHM LAB PROJECT PROPOSAL**

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| **SEMESTER 3** | | **Spring** | **BSCS-3B** | | **2023** |
| **TITLE OF PROJECT** | | | | | |
| INVENTORY MANAGEMENT SYSTEM | | | | | |
| **Group Members** | | | | | |
| **S#** | **Student(s) Name** | | | **Enrollment Number** | |
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| **2** | Soha Ather | | | 02-134221-088 | |
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| **PROJECT PURPOSE, SCOPE, AND OBJECTIVES** | | | | | |
| The purpose of the Departmental Management System is to streamline and optimize departmental processes within an organization. It aims to improve communication, collaboration, and productivity by providing a centralized platform for managing department-specific tasks, resources, and information.  Project Scope: User Management: Implement role-based access control to ensure appropriate data confidentiality and system security.   1. Employee Information Management: Develop a module to store and manage employee details, including contact information, job roles, and performance records. 2. Workflow Automation: Automate routine tasks, such as leave requests, expense approvals, and document sharing, with customizable workflows.   Project Objectives: Efficiency and Productivity: Improve departmental efficiency and productivity by automating workflows, reducing manual effort, and providing tools for streamlined task management .Performance Tracking: Enable effective performance tracking and evaluation of individual employees and departments, facilitating goal setting and improving overall performance | | | | | |
| **PROJECT DESCRIPTION (most important part)** | | | | | |
| * The Departmental Management System is a software solution that centralizes and streamlines departmental processes within an organization. It includes features such as workflow automation, communication tools, performance tracking, resource management, and reporting. The system aims to improve efficiency, collaboration, and productivity within departments, ultimately contributing to the overall success of the organization. * Resource management features allow for efficient allocation and utilization of departmental resources. Inventory management, equipment tracking, and budget allocation tools enable departments to effectively manage their resources and ensure optimal utilization and cost-effectiveness. * Comprehensive reporting and analytics capabilities provide valuable insights into departmental performance, resource utilization, and productivity. Graphical representations and data visualization enable managers and stakeholders to make informed decisions based on real-time data. The Departmental Management System is designed with a user-friendly interface, ensuring ease of use and navigation. User adoption is encouraged through intuitive design and user-focused features, promoting efficient utilization of the system. | | | | | |
| **Assumptions**   * Company has enough budget and/or resources to provide computers to their employees and admins so that they can monitor and enter their information through the use of software instead of hardware/physical means. * The computers have enough capacity to run this program. * The employees are trained enough whether it be for using a computer or language purposes (as this software is in English) * Strict Policy is imposed to make them be particular about using this software for all their concerns and/or entries, requests etc. instead of paperwork or physically approaching the management. | | | | | |

**For Teacher Use Only**

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| **REMARKS** |
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| **Course Teacher** |  | **Signature** |  | **Date** |  |
| **Lab Instructor** |  | **Signature** |  | **Date** |  |