**CEIS400 BUSINESS PROBLEM SCENARIO GROUP C**

**(Course Project Lab Assignment #1)**

**(Instructions: Complete the template below based on your *selected project business case study scenario* in the Course Home, or provided by the professor. Keep the course project lab deliverables moving by listing and/or confirming any assumptions with the professor, *as needed*.)**

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| **CEIS400 Business Problem Scenario Information** |
| **Company/Scenario Name: GB Manufacturing**  **Date: 3/1/24**  **Prepared By: Xavier Norment** |
| ***General Project Information:***  **Project Team #: ZN-3507**  **Project Team Name: Zeta Charlie**  **Project Leader and Team Members: Xavier Norment, Hailey Thomas, Ronda Vaughn** |
| ***Business Problem/Scope Statement:***  According to most recent estimate $50,000 worth of tools are lost or stolen every working year, and a new system to keep track of materials and equipment checkout is needed. This project will provide the solution of a centralized database to keep track of employees and the equipment they check out and return to replace the manual handwritten system currently in use. |
| ***Project Objectives:***   * Reduce the amount of time that it takes to process a single equipment checkout * Reduce the amount of time it takes to process an employee termination * Be able to accurately and quickly connect a returned piece of equipment to the employee responsible * During checkout be able to confirm employee has the appropriate skill level to use the equipment * Automate employee notification of when orders come in and who it goes to * Make autogenerated records easy to access and create * Provide easy access to storage records * Provide periodic transaction history reports per employee * Provide analysis of check-ins and check-outs * Generate exception reports for problem employees and situations   Bullet Format (objectives are measurable confirmation of the scope) |
| ***Customers/Stakeholders:***   * Project Manager * Project Team * Depot Manager * Project Sponsor * Company Employees * Company Shareholders |
| ***Project Description:***   1. To reduce strain on the Equipment Depot, a new Equipment Checkout System will be designed. This system will be able to keep track of all individual pieces of equipment, where they are, who they are rented to, and if the piece of equipment needs specific safety training to use properly. To combat equipment and monetary loss, this system will also keep track of issues that may occur and be able to quickly identify repetitive issues or major losses. 2. Using Java as front-end software, this system will connect to a MySQL database to do most of its checks. So that the team reduces miscommunication and compatibility issues, Microsoft Visual Studio will be used for all Java programming and testing and Microsoft MySQL will be used for all SQL checks and builds. Microsoft Visio will be used to create all UML and OOAD diagrams to ensure that team communication is kept up and translated properly to programming. Version control will be handled in a GitHub repository that also contains all the background information as well as tracking team member involvement. |
| ***Software Engineering Best Practices:***   * Obfuscation – not allowing easy outside access to important or sensitive information * Well-documented and commented code * Source Version Control * Proper Diagramming * Well-planned test cases * Code Reviews * Waterfall-style meetings |
| ***Major Project Deliverables:***  Planning  Week 1 - Project Scope and High-Level Requirements  Week 2 - Requirements and UML-OOAD Diagrams  Week 3 – Software Architecture  Analysis  Week 2 - Requirements and UML-OOAD Diagrams  Week 3 – Software Architecture  Design  Week 5 - Software Design and Construction  Week 6 - Construction and Testing  Implementation  Week 6 - Construction and Testing  Final Production & Maintenance-  Week 7 - Testing and Maintenance  Week 8 – Finalization of Project |
| ***Individual/Team Member Job Descriptions/Responsibilities for each course project lab assignment:***  Xavier Norment—   * Project Lead * Documentation/ WBS * Meeting notes/ agendas * Combining and testing project pieces * Secondary programmer for Java and SQL   Hailey Thomas—   * Lead Java Programmer * Meeting notes/ agendas * Software testing and integration * Primary Visio editor (diagram creator) * Secondary Documentation/ WBS   Ronda Vaughn—   * Lead SQL Programmer * Primary database designer * Software testing and integration * Secondary Visio Editor |
| ***Additional Comments (optional):*** |