|  |
| --- |
| **CEIS400 Business Problem Scenario Information** |
| **Company/Scenario Name: GB Manufacturing** / **IEEE SRS 830**  **Updated: 10/4/2024**  **Date: September 7, 2024**  **Prepared By: Scholar Marcellous Searcy, Scholar** **Kaylee Smallets, Scholar Andrew Stone** |
| ***General Project Information:***  **Project Team #**  TEAM G  **Project Team Name:**  Searcy, Marcellous – Arts Major  Smallets, Kaylee - Math Tutor Stone, Andrew – Inspector  **Project Leader and Team Members:**  **Searcy, M. Database Administrator, Assignment Developer**  **Stone, A. Policy Administrator**  **Smallets, K. UML diagram** |
| ***Business Problem/Scope Statement:***  **Project Scope: Develop an AI Equipment Checkout System to discard or reuse usable tools, through a list of tools or equipment located in the Central Warehouse. Delivery methods of shipping and receiving between warehouses, and recycle centers, aiding in maintenance shop position to recycle and keep standard parts available. Enhanced by AI/ML Digital Conyer Belt Scanning System, the application gains another whole new main feature, requiring logon to view and edit usages.** |
| ***Project Objectives:***  The program:   1. Buttons:    * 1. Login – system login      2. Enter – tool or equimpment inquiry      3. toolId attributes: name, size, weight, image calculations, like AI features 2. Conveyor belt controller (auto, manual, line 1, line 2, or line3) 3. IP Help desk   Time sheet   1. 2 in half day drills 2. First Sunday September 4 = day 1 3. First Sunday October last day 4. 2 party type |
| ***Customers/Stakeholders:***   1. GB Manufacturing: Employees and Team members 2. The Software Engineering Body of Knowledge for Professional Engineering in United States. 3. University of DeVry: CEIS400 David Ostrowski, Team G: Searcy, Marcellous/ Smallets, Kaylee/ Stone, Andrew. |
| ***Project Description:***  Create an Equipment Checkout System (ECS) with a secured storage application would require the ability to allow user credential access using password protection. A unique advantage to using Just-In-Time (JIT) Inventory Management control system is to have better inventory control. in reducing downtime by only providing top quality tools and minimize unusable space from bad parts being in the way.  Keeping track of inventory and transactions is the key, as a tool register system won’t be able to manage inventory (Mac Marketing, 2022), for at this point we will use the Iterative SDLC (Software Development Life Cycle) to add cloud computing services to have continuous stakeholder collaboration.  Password protection and secure storage of user credentials. |
| ***Software Engineering Best Practices:***   * Apache NetBeans to create the Java programming language application. * The user interface is a touch screen display with communication ports of hard-wired or signal 802.11ac. * MySQL for cloud storage. * The platform that the application will run on is Windows 10. |
| ***Major Project Deliverables:*** |
| ***Individual/Team Member Job Descriptions/Responsibilities for each course project lab assignment:***  **IEEE-830 Software Requirements Specification (SRS) Document**  **Table of Contents**  Introduction   * 1. Purpose   2. Scope   3. Definitions, acronyms, abbreviations   4. References   5. Overview   Overall Description  2.1 Product perspective  2.2 Product functions  2.3 User characteristics  2.4 Constraints  2.5 Assumptions and dependencies  Specific requirements  3.1 External interface requirements  3.1.1 User interfaces  3.1.2 Hardware interfaces  3.1.3 Software interfaces  3.1.4 Communications interfaces  3.2 Functional requirements  3.2.1 Material list policy  3.2.1.1 Check-in  3.2.1.2 Check-out  3.2.2 Delivery methods  3.2.1.1 Reprocessing  3.2.1.2 Local bin  3.3 Performance requirements  3.3.1 Standards  3.3.2 Hardware limitations  3.3.3 Software System Attributes  3.3.3.1 Functionality Software Qualities  3.3.3.1.1 Interoperability  3.4 Design constraints  3.4.1 Availability  3.4.2 Security  3.4.3 Maintainability  3.5 Other requirements     * **Searcy, M. Database Administrator, Assignment Developer** * **Stone, A. Policy Administrator** * **Smallets, K. UML diagram** |
| ***Additional Comments (optional):*** |
|  |