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| **CEIS400 Business Problem SDD** |
| **Team G**  **GB Manufacturing** Tool Tracker App  **Software Design Description (SDD):**  **Updated: 10/4/2024**  **Version: 1**  **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** |
| **IEEE- Standard 1016 Software Design Document (SDD)**  **Table of Contents**   1. Introduction    1. Purpose   Build a software application that maintenance workers could use to reduce costs due to the downtime performance of tools and equipment shop at GB Manufacturing. Tools and equipment being not available is the foundation of this functional software architecture. This automated equipment checkout system would allow users to have access to push button features and credential login features. Using a secure database, scanning and editing authorized entries of inquiries to and from the database will keep the system up and downtime reduced to its minimum circumstances. For communication methods between warehouse utilities would have the ability to participate in preexisting conditions, minimizing the affects needed to make changes to the application by a software designer professional. Access to the tool account lists in the database can be viewed by authorized users using desktop, mobile, or control panel.   * 1. 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.   * 1. Overview   Create an Equipment Checkout System (ECS) with a secured storage application would require the ability to allow user credential access using password protection to enter the system. 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.   * 1. Reference Material   2. Definitions and Acronyms  1. SYSTEM OVERVIEW   The software functions as a tool and equipment log where clients are registered with the tools and equipment he or she has been assigned. The software also communicates with each warehouse in order to maintain tool and equipment availability.  3. SYSTEM ARCHITECTURE  3.1 Architectural Design    3.2 Decomposition Description  3.3 Design Rationale  4. DATA DESIGN  4.1 Data Description  4.2 Data Dictionary  Shop Clerk – works in the Tool Shop to assign equipment and tools.  Employee – anyone authorized to obtain tool from the tool shop.  Main Warehouse – location of supplies.  Small Warehouse – the location of the Tool Shop.  5. COMPONENT DESIGN    6. HUMAN INTERFACE DESIGN  6.1 Overview of User Interface  6.2 Screen Images    6.3 Screen Objects and Actions  7. REQUIREMENTS MATRIX  8. APPENDICES |
| ***Additional Comments (optional):*** |