The Max Inventory System



**Team Awesome**

|  |  |
| --- | --- |
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**Table of Contents**

Client Documents ……………………………………………………………………………………………………………………………………3

Opening Statement ……..………………………………………………………….…………………………………………………4

Executive Summary …………..…………………………………………………….…………………………………………………5

Implications for Client ………..………………………………………………………………………………………………………6

Items for Approval……………..…………………………………….…………………………………………………………………7

Project Documents …………………………………………………………………………………………………………………………………8

Project Management Chart for Semester…….………………………….…………………….……………………………9

Commercial Software Component……………………………………………………………………………….……………10

Members, Tasks & Approach of Software Design Team…………………………………………………………….11

Structure Chart……………………………………………………………………………………………………………….………..12

4 run sheets for individual modules………………………………………………………………………………………….13

CRUD Table……………………………………………………………………………………………………………………………...17

Control Documents ……………………………………………………………………………………….………………………………………18

Roles and Responsibilities………………………………………………………………………………………………………...19

Meeting Communications……….……….…….…………………………………….…………………………………………..20

Change Log………………….…………..…………………………………….…………….…..………………………………………22

Client Documents

**Opening Statement**

Milestone 7 of The Max Inventory System has been completed. The development of this system continues to remain on schedule and on budget.

**Executive Summary**

With technology today, bars can make a more efficient use of time and energy by using a system to track inventory. Using an inventory system, a bar can track which items they need to reorder, which items are most popular and which items should be discontinued from their purchases.

We are currently in the process of designing a system around the liquor usage at The Max. This application will allow them to make orders more easily. As inventory increases this system will be a good complement to the already successful bar.

This milestone contains documents to describe The Max Inventory project. The key documents for this milestone include:

* Project Management Chart for Semester: Details individual tasks needing to be completed for this project. These tasks include each document for the milestones and final project. This will also include the tasks for the prototype of the inventory system. These tasks include everything needed to complete the rest of the system. This chart will also track the hours spent working on the system as well as the resources that were involved in each task.
* Commercial Software Component: Details what software will be used in this system, including the operating system that the system will run on. This is like the Actual Architecture document from Milestone 6, but for software instead of hardware.
* Members, tasks, & Approach of Software Design Team: Outlines members of the team, and the tasks that they will be completing during design and development of this system. This document also details the designing that will be done to ensure that the system is usable for end users.
* Structure Chart: This document is a visual representation of how each module will interact in the system. A module is a small piece of the system such as a form or report.
* 4 Run Sheets for Individual Modules: Outlines how an individual module will execute a given command. The run sheet will also highlight the tables of the database that the module will interact with as well as the attributes from the database.
* CRUD table: A visual representation of how a module from the Structure Chart will interact with the tables from the Relational Database. The table will allow a user to see if a module will Create, Read Only, Update, or Delete in a table in the database. Some tables will not interact with certain modules.

**Implications for Client**

There are no implications for client for Milestone 7.

**Items for Approval**

There are no items for approval for Milestone 6.

Project Documents

**Project Management Chart for Semester**

<<See attached MAX.mpp>>

**Commercial Software Component**

The Max Inventory System will use a machine that will be running Windows 10 for its operating system. On this machine will be Microsoft Access 2016 to run the system. Microsoft Access 2016 will be how the database is run. Along with Access, Symantec will be used for security software on the machine.

Updates to Microsoft Access should be run at a non-critical time, such as before the bar opens or after the bar closes. This will ensure that inventory will be properly tracked during business hours. Critical updates to the operating system should also be done at a non-critical time. Microsoft updates are well supported, so issues with updates are not anticipated. However, if a problem arises where a non-critical update has the potential to break the system, management can make the decision to skip the update.

**Proprietary Software Component**

**Members, tasks & approach of software design team**

**Members of the team include:**

Abdulaziz Matar

Collyn Sansoni

Justin Hendricks

Paul Naumann

Tom Jorgensen

**Tasks:**

Design- Tom Jorgensen

Coding- Collyn Sansoni

Testing – Justin Hendricks/Abdulaziz Matar

Documentation- Paul Naumann

**Approach:**

We will be using a bottom-up approach to development. The team will be using this method because it allows design and development of smaller, individual components of the system first. Once these work properly all small components of the system can be put together to make the system whole. This method works better for debugging and redesign without breaking larger part of the systems when making improvements.

**Proprietary Software Component**

**Structure Chart**

<<See attached MAX.vsdx>>

**Proprietary Software Component**

**4 run sheets for individual modules**

**Run Sheet 1**

**Program Name**: Brand Query

**Location**: Development Environment

**Programmer(s):** Collyn Sansoni, Paul Naumann

**Date Completed:** May 1, 2018

**Project Name:** The Max Inventory System

**Client:** The Max

**Program Objectives:**

* Look up Brand Names and ID #s

**Manual Input:**

* User enters brand name and brand ID # will be auto assigned

**Files Used:**

Brand read only

**Fields Used:**

Brand.brand-id read only

Brand.brand-name read only

**Output:**

**Hardware Requirements:**

**Program Messages:**

**Control Sections:**

**Run Sheet 2**

**Program Name:** Type Form

**Location:** Development Environment

**Programmer(s):** Tom Jorgensen, Paul Naumann

**Date Completed:** May 1, 2018

**Project Name:** The Max Inventory System

**Client:** The Max

**Program Objectives:**

* Look up Type Names and ID #s
* Add new Type Names and ID #s

**Manual Input:**

* User enters type name and type ID # will be auto assigned

**Files Used:**

Type read & write

**Fields Used:**

Type.type-id read & write

Type.type-name read & write

**Output:**

**Hardware Requirements:**

**Program Messages:**

**Control Sections:**

Run Sheet 3

**Program Name:** Inventory Report

**Location:** Development Environment

**Programmer(s):** Tom Jorgensen, Abdulaziz Matar

**Date Completed:** May 1, 2018

**Project Name:** The Max Inventory System

**Client:** The Max

**Program Objectives:** Allow user to view how much inventory is currently in stock.

**Manual Input:** User will select Inventory Report from the Reports menu.

**Files Used:**

Inventory read

Type read

Brand read

**Fields Used:** None

**Output:**

**Hardware Requirements:**

**Program Messages:**

**Control Sections:**

Run Sheet 4

**Program Name:** Pull-Inventory Report

**Location:** Development Environment

**Programmer(s):** Tom Jorgensen, Justin Hendricks

**Date Completed:** May 1, 2018

**Project Name:** The Max Inventory System

**Client:** The Max

**Program Objectives:**  Use report to identify inventory that has been pulled from stock in the bar.

**Manual Input:** User will select Pull-Inventory Report from the Reports Menu.

**Files Used:**

Pull-Inventory read

Pull-Inventory-Line read

Employee read

**Fields Used:**

Pull-Inventory-Line.inventory-id read

Pull-Inventory-Line.pull-id read

Pull-Inventory-Line.pull-quantity read

Pull-Inventory.pull-id read

Pull-Inventory.employee-id read

Pull-Inventory.pull-date read

Employee.employee-id read

**Output:**

**Hardware Requirements:**

**Program Messages:**

**Control Sections:**

**Proprietary Software Component**

**CRUD table**

<<See attached MAX.xlsx>>

**Control Documents**

**Roles and Responsibilities**

**Milestone 7**

|  |  |  |
| --- | --- | --- |
| **Name** | **Role** | **Responsibility** |
| Justin | Client Liaison/CRUD Table | * Organizing meetings between customer and Team Awesome * Revision of CRUD Table |
| Paul | CRUD Table/ Structure Chart/ Project Management Chart | * Creation of CRUD Table * Creation of Actual Architecture and client hardware procurement process documents |
| Collyn | Commercial Software Component/ Members, Tasks & Approach of Software Design Team | * Creation of Commercial Software Component * Creation of Members, Tasks & Approach of Software Design Team |
| Tom | Milestone Manager | * Managing documents for group * Assigning deliverables to group members * Revision of client document to reflect Milestone 7 * Revision of meeting communications and control documents to reflect Milestone 7 |
| Abdulaziz | 4 Run Sheets for Individual Modules | * Creation of 4 Run Sheets for Individual Modules |

**Meeting Communications**

**Milestone 6**

**Date:** 2/15/18

**Time:** 6:30 PM

**Location:** UNO Criss Library 102b

**Present:** Paul Naumann, Tom Jorgensen, Justin Hendricks, Abdulaziz Matar

|  |  |  |
| --- | --- | --- |
| **Item** | **Responsible Party** | **Comments** |
| Summary of group meeting | Team Awesome | * Began working on first draft of Milestone 6 documents * Set responsible parties |

**Handouts:** None

**Discussion:** See Comments

**Date:**  Week beginning 2/12/18

**Time:** All week

**Location:** Group text/ slack.com chat

**Present:** Paul Naumann, Tom Jorgensen, Collyn Sansoni, Justin Hendricks, Abdulaziz Matar

|  |  |  |
| --- | --- | --- |
| **Item** | **Responsible Party** | **Comments** |
| Summary of group text/ slack.com chat | Team Awesome | * Discussed required documents for Milestone 6 * Assigned Collyn as Milestone Manager |

**Handouts:** None

**Discussion:** See Comments

**Date:**  Week beginning 2/19/18

**Time:** All week

**Location:** Group text/ slack.com chat

**Present:** Paul Naumann, Tom Jorgensen, Collyn Sansoni, Justin Hendricks, Abdulaziz Matar

|  |  |  |
| --- | --- | --- |
| **Item** | **Responsible Party** | **Comments** |
| Summary of group text/ slack.com chat | Team Awesome | * Assigned due dates for documents * Discussed in-person meeting times |

**Handouts:** None

**Discussion:** See Comments

**Date:** 2/22/18

**Time:** 6:30 PM

**Location:** UNO Criss Library 102b

**Present:** Paul Naumann, Tom Jorgensen, Justin Hendricks, Abdulaziz Matar

|  |  |  |
| --- | --- | --- |
| **Item** | **Responsible Party** | **Comments** |
| Summary of group meeting | Team Awesome | * Created first draft of Request for Proposal |

**Handouts:** None

**Discussion:** See Comments

**Change Log**

**Opening Statement**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version Name** | **Change** | **Comments** |
| 9/6/17 | 1 | Creation of Opening Statement | Created Opening Statement document |
| 10/4/17 | 2 | Revised Opening Statement | Revised Opening Statement to reflect Milestone 2 |
| 10/16/17 | 3 | Revised Opening Statement | Revised Opening Statement to reflect Milestone 3 |
| 12/8/17 | 4 | Revised Opening Statement | Revised Opening Statement to reflect Milestone 4 |
| 1/15/18 | 5 | Revised Opening Statement | Revised Opening Statement to reflect Milestone 5 |
| 2/27/18 | 6 | Revised Opening Statement | Revised Opening Statement to reflect Milestone 6 |
| 2/28/18 | 7 | Revised Opening Statement | Revised Opening Statement based on feedback |

**Executive Summary**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version Name** | **Change** | **Comments** |
| 9/5/17 | 1 | Creation of Executive Summary | Created the Executive Summary document |
| 9/8/17 | 2 | Revised Executive Summary | Revised Executive Summary |
| 10/4/17 | 2 | Revised Executive Summary | Revised Executive Summary to reflect Milestone 2 |
| 10/16/17 | 3 | Revised Executive Summary | Revised Executive Summary to reflect Milestone 3 |
| 12/5/17 | 4 | Revised Executive Summary | Revised Executive Summary to reflect Milestone 4 |
| 1/15/18 | 5 | Revised Executive Summary | Revised Executive Summary to reflect Milestone 5 |
| 2/6/18 | 6 | Revised Executive Summary | Revised Executive Summary to reflect feedback from Professor. |
| 2/8/18 | 7 | Revised Executive Summary | Revised Executive Summary to reflect feedback from Professor. |
| 2/27/18 | 8 | Revised Executive Summary | Revised Executive Summary to reflect Milestone 6 |
| 2/28/18 | 9 | Revised Executive Summary | Revised Executive Summary based on feedback |

**Implications for Client**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version Name** | **Change** | **Comments** |
| 9/5/17 | 1 | Creation of Implications for Client | Created Implications for Client document |
| 10/4/17 | 2 | Revised Implications for Client | Revised Implications for Client based on Professor feedback |
| 10/16/17 | 3 | Revised Implications for Client | Revised Implications for Client for Milestone 3 |
| 12/6/17 | 4 | Revised Implications for Client | Revised Implications for Client for Milestone 4 |
| 1/16/18 | 5 | Revised Implications for Client | Revised Implications for Client for Milestone 5 |
| 2/27/18 | 6 | Revised Implications for Client | Revised Implications for Client for Milestone 6 |
| 2/28/18 | 7 | Revised Implications for Client | Revised Implications for Client based on feedback |

**Items for Approval**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version Name** | **Change** | **Comments** |
| 9/6/17 | 1 | Creation of Items for Approval | Created Items for Approval document |
| 10/5/17 | 2 | Revised Items for Approval | Revised Items for Approval |
| 10/16/17 | 3 | Revised Items for Approval | Revised Items for Approval |
| 11/29/17 | 4 | Revised Items for Approval | Revised Items for Approval based on Milestone 4 |
| 2/4/18 | 5 | Revised Items for Approval | Revised Items for Approval based on Milestone 5 |
| 2/27/18 | 6 | Revised Items for Approval | Revised Items for Approval based on Milestone 6 |
| 2/28/18 | 6 | Revised Items for Approval | Revised Items for Approval based on feedback |

**Project Management Chart for Semester**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version Name** | **Change** | **Comments** |
| 2/2/18 | 1 | Creation of Project Management Chart for Semester | Created Project Management Chart for Semester |
| 2/4/18 | 2 | Revised Project Management Chart for Semester | Revised Project Management Chart for Semester based on feedback |
| 2/8/18 | 3 | Revised Project Management Chart for Semester | Finalized Project Management Chart for Milestone 5 based on feedback |
| 2/27/18 | 4 | Revised Project Management Chart for Semester | Revised Project Management Chart for current Milestone |

**Request for Proposal**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version Name** | **Change** | **Comments** |
| 2/22/18 | 1 | Creation of Request for Proposal | Created Request for Proposal |
| 2/24/18 | 2 | Revised Request for Proposal | Revised Request for Proposal based on feedback |
| 2/27/18 | 3 | Revised Request for Proposal | Revised Request for Proposal based on feedback |
| 2/28/18 | 4 | Revised Request for Proposal | Revised Request for Proposal based on feedback |

**Actual Architecture Design**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version Name** | **Change** | **Comments** |
| 2/22/18 | 1 | Creation of Actual Architecture Design | Created Actual Architecture Design |
| 2/24/18 | 2 | Revised Actual Architecture Design | Revised Actual Architecture Design Based on feedback |
| 2/27/18 | 3 | Revised Actual Architecture Design | Revised Actual Architecture Design Based on feedback |

**Input/Output and Interface Design**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version Name** | **Change** | **Comments** |
| 2/24/18 | 1 | Creation of Input/Output and Interface Design | Created Input/Output and Interface Design |
| 2/27/18 | 2 | Revised Input/Output and Interface Design | Revised Input/Output and Interface Design based on feedback |
| 2/28/18 | 3 | Revised Input/Output and Interface Design | Revised Input/Output and Interface Design based on feedback |
| 3/1/18 | 4 | Revised Input/Output and Interface Design | Revised Input/Output and Interface Design based on feedback |

**Comprehensive Systems Controls Plan**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version Name** | **Change** | **Comments** |
| 2/24/18 | 1 | Creation of Comprehensive Systems Controls Plan | Created Comprehensive Systems Controls Plan |
| 2/27/18 | 2 | Revised Comprehensive Systems Controls Plan | Revised Comprehensive Systems Controls Plan based on feedback |
| 2/28/18 | 3 | Revised Comprehensive Systems Controls Plan | Revised Comprehensive Systems Controls Plan based on feedback |

**Roles and Responsibilities**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version Name** | **Change** | **Comments** |
| 8/30/17 | 1 | Creation of Roles and Responsibilities Document | Creation of Roles and Responsibilities Document for Milestone 1. |
| 9/16/17 | 2 | Revised Roles and Responsibilities for Milestone 2 | Revised Roles and Responsibilities for Milestone 2 |
| 11/2/17 | 3 | Revised Roles and Responsibilities for Milestone 3 | Revised Roles and Responsibilities for Milestone 3 |
| 11/9/17 | 4 | Revised Roles and Responsibilities for Milestone 4 | Revised Roles and Responsibilities for Milestone 4 |
| 1/16/18 | 5 | Revised Roles and Responsibilities for Milestone 5 | Revised Roles and Responsibilities for Milestone 5 |
| 2/27/18 | 6 | Revised Roles and Responsibilities for Milestone 6 | Revised Roles and Responsibilities for Milestone 6 |

**Meeting Communications**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version Name** | **Change** | **Comments** |
| 9/6/17 | 1 | Creation of Meeting Communications | Created Meeting Communications document |
| 9/13/17 | 2 | Revised Meeting Communications | Revised Meeting Communications to show new meetings |
| 10/9/17 | 3 | Revised Meeting Communications | Revised Meeting Communications to show meetings since last revision |
| 10/26/17 | 4 | Revised Meeting Communications | Revised Meeting Communications to show meetings since last revision |
| 11/2/17 | 5 | Revised Meeting Communications | Revised Meeting Communications to show meetings since last revision |
| 11/30/17 | 6 | Revised Meeting Communications | Revised Meeting Communications to show meetings since last revision |
| 12/4/17 | 7 | Revised Meeting Communications | Revised Meeting Communications to show meetings since last revision |
| 12/7/17 | 8 | Revised Meeting Communications | Updated Meeting Communications to reflect separation by Milestone. |
| 2/5/18 | 9 | Revised Meeting Communications | Updated Meeting Communications to reflect new meetings |
| 2/27/18 | 10 | Revised Meeting Communications | Updated Meeting Communications to reflect new meetings |

**Miscellaneous**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version Name** | **Change** | **Comments** |
| 8/30/17 | 1 | Creation of GitHub Repository | Created the GitHub Repository and added members of group |
| 9/6/17 | 1 | Creation of Title Page | Created Title Page document |
| 9/10/17 | 2 | Revised Title Page | Added logo to Title Page |
| 9/11/17 | 2 | Revised Milestone 1 document | Addressed changes suggested by Professor Germonprez |
| 11/23/17 | 1 | Creation of presentation slides | Creation of presentation slides |