**Work Breakdown Structure**

1. **Plan and Analyze System**

**1.1 User Needs**

1.1.1 Meet with Derik (user)

1.1.2 Determine the bar’s need

**1.2 Tasks**

1.2.1 Understand system tasks

1.2.2 Understand system tasks relationship to user and other tasks

**1.3 Technical Requirements**

1.3.1 Understand software requirements

1.3.2 Understand hardware requirements

**1.4 Financial Impact**

1.4.1 Analyze software costs

1.4.2 Analyze hardware costs

1.4.3 Analyze labor costs

1. **Design System**

**2.1 System Requirements**

2.1.1 Breakdown system requirements

2.1.2 Connect tasks to logical model

2.1.3 Build system logical system model

1. **Develop Database**

**3.1 Logical Model for Database**

3.1.1 Create entity relationship model of database

3.1.2 Translate into a set of relational tables

3.1.3 Examine model for redundancy

3.1.4 Examine model for referential integrity

**3.2 Physical Model for Database**

3.2.1 Create database in Microsoft Access

1. **Develop User Interface**

**4.1 Logical Model for interface**

4.1.1 Create model of interface according to discussed needs of user

4.1.2 Get approval of model from user

4.1.3 Revise model according to user review

**4.2 Physical Model for Interface**

4.2.1 Write code for interface

4.2.2 Connect interface with database

1. **Implement System**

**5.1 Database**

5.1.1 Populate database

5.1.2 Test database

**5.2 Interface**

5.2.1 Populate database through user interface

5.2.2 Test interface

1. **Create Documentation**

**6.1 M1 - Milestone 1**

6.1.1 Create and Revise Client Documents

6.1.2 Create and Revise Executive Summary

6.1.3 Create and Revise Implications for Client

6.1.4 Create and Revise Items for Approval

6.1.5 Create and Revise Project Documents

6.1.6 Create and Revise System Service Request

6.1.7 Create and Revise Project Charter

6.1.8 Create and Revise Control Documents

6.1.9 Create and Revise Roles and Responsibilities

6.1.10 Create and Revise Change Log

6.1.11 Create and Revise Communication Management Plan

6.1.12 Create and Revise Meeting Communication

6.1.13 Create and Revise Team Member Status Report

**6.2 M2 - Milestone 2**

6.2.1 Create and Revise Project Scope Statement

6.2.2 Create and Revise Statement of Work

6.2.3 Create and Revise Work Breakdown Structure

6.2.4 Create and Revise Work Breakdown Structure Dictionary

6.2.5 Create and Revise Gantt Chart

6.2.6 Create and Revise Economic Feasibility Analysis

6.2.7 Create and Revise Enterprise Diagrams

6.2.8 Update and Revise Milestone 1 Documents

**6.3 M3 - Milestone 3**

6.3.1 Create and Revise Baseline Project Plan

6.3.2 Create and Revise Risk Management Plan

6.3.3 Create and Revise Risk Register

6.3.4 Create and Revise Information Systems Security Policies

6.3.5 Update and Revise Milestone 1 & 2 Documents

**6.4 M4 - Milestone 4**

6.4.1 Create and Revise Data Flow Diagrams

6.4.2 Create and Revise IDEF0 Models

6.4.3 Create and Revise Logic Modeling

6.4.4 Create and Revise Work Flow Diagram

6.4.5 Update and Revise Milestone Documents

6.4.6 Update and Revise Milestone 1, 2, &3 Documents

**Work Breakdown Structure Dictionary**

**1. Plan and Analyze system-** Describes the user needs, tasks, technical requirements, and financial impact of the project.

**1.1. User Needs-** Meet with user and determines the bar’s needs.

**1.2. Tasks-** Understands the systems tasks and relationship to user and other tasks

**1.3. Technical Requirements-** Understand hardware and software requirements

**1.4. Financial Impacts-** Analyze hardware, software, and labor costs.

**2. Design System-** Describes the system requirements for the project.

**2.1. System Requirements-** Breaks down the system requirements, connects tasks to logical model, and builds system logical system model

**3. Develop Database-** Describes the logical model and the physical model for the database.

**3.1. Logical Model for Database-** Creates entity relationship model of database, translate it into a set of relational tables, and examine model for redundancy and referential integrity.

**3.2. Physical Model for Database-** Creates the database in Microsoft Access.

**4. Develop User Interface-** Describes the logical and physical interface.

**4.1. Logical Model for interface-** Creates the model of interface according to discussed needs of user, gets approval of model from user, and then revise per users feedback

**4.2. Physical Model for Interface-** Create the code for interface and then connect interface to the database.

**5. Implement System-** Describes the database and the interface.

**5.1. Database-** Populate and test the database

**5.2. Interface-** Populate the database through the user interface and then test the interface.

**6. Create Documentation-** Creates the documentation needs for all 4 milestones.

**6.1. M1- Milestone 1-** Creates and revises the client documents, executive summary, implications for client, items for approval, project documents, system service request, project charter, control documents, roles and responsibilities, change log, communication management plan, meeting communications, and team member status report.

**6.2. M2- Milestone 2-** Creates and revises project scope statement, statement of work, work breakdown structure, work breakdown structure dictionary, gantt chart, economic feasibility analysis, and enterprise diagrams. Also revises all documents in previous milestone.

**6.3. M3- Milestone 3-** Creates and revises baseline project plan, risk management plan, risk register, and information systems security policies. Also revises all documents in previous milestones.

**6.4. M4- Milestone 4-** Creates and revises data flow diagrams, IDEF0 models, logic modeling, work flow diagram, and milestone documents. Also revises all documents in previous milestones.