# Unit 6 Assignment

# Amon-ra

# Herzing University

BU 630-7A Project and Operations Management

**Initiation**

Cool Coffee Company is a gourmet coffee lounge for coffee connoisseurs. The business differentiates itself from cafes and shops by treating coffee as a craft. The goal of the business is to produce coffee of the finest quality. Enterprise Resource Planning (ERP) system will integrate different department systems into one.

Inventory is critical to the business and their levels must be maintained. Without sufficient inventory the business cannot function. The company maintains a firm stance on fulfilling a customer’s need, which requires all inventory products to be in stock and ready for use. The business is totally intolerant of having to advise a customer that a menu item is unavailable.

The company presently maintains separate systems for each department.

* Sales
* Inventory
* Purchase Orders
* Accounting
* Marketing

Records are accurate but isolated and have no connection to other departments. It would very beneficial to the company to have all the systems connected via a central system, an Enterprise Resource Planning system. The impact of activities from departments can be reflected in affected and relevant departments. This would provide real-time information to all departments in order to maintain proper inventory levels. As sales are made, accounting records can be updated. Inventory will reflect the activity in sales that can trigger a purchase order and subtracted from inventory. Once the purchase order arrives, the new stock can be added to inventory. Is the new marketing strategy working? The marketing department will have direct access to sales information in order to correlate marketing efforts with sales statistics.

**Planning**

The new enterprise resource planning system will consist of a company database. Portions of the database will have restricted access to the relevant department. Related or dependent information will be viewable in a read-only format for the dependent/related department. Data entry will be performed by the respective departments, e.g. sales entries are performed at the point-of-sales personnel.

Sales directly affected inventory levels will reflected real-time. Sales will also contribute to the revenue in accounting. Purchase order preparation is automated based on inventory levels. When inventory products are equal to or less than a certain level, the product will be added to a purchase order. The payment for the purchase order is derived from accounting. As purchase orders arrive to the company the inventory department will add the products to inventory. Refer to the data flow diagram for an illustration of this process flow.

Entity relationship of the enterprise resource planning system:

* Sales one-to-one relationship with Accounting
* Inventory one-to-one relationship with Purchase Orders
* Purchase Orders one-to-many relationship with Inventory
* Sales many-to-many relationship with Inventory
* Accounting one-to-many relationship with Marketing

**Sales**

**Inventory**

**Purchase Orders**

**Accounting**

**Data Flow Diagram (DFD)**

**Marketing**

**Sales**

**Sales ID.**

**Inventory**

**Inventory ID.**

**Purchase Orders**

**Purchase Order ID.**

**Accounting**

**Entity Relationship Diagram (ERD)**

**Marketing**

“The entity-relationship diagram is a tool for designing and analyzing databases, and in particular for applying a technique called entity-relationship (ER) modeling to the design process. It has proven to be very successful at rendering the relationships among the data fields, or variables, contained within a given database.” (Ronald, 2005, Winter).

**Execution**

In order to construct the new database some insight will be gathered from the present multiple systems that are being used. Additionally, interviews will take place with the users of the present system to uncover any shortcomings of what is currently being used in order to incorporate those features in the new system. It was decided to an entirely new system as opposed to linking all the individual system together to ensure a pure centralized solution rather binding pieces together. This will make management and support more efficient. Each team will be trained on how to use the newly deployed enterprise resource planning system. That presentation will be made by the database administrator (DBA). Training will consist of a one-day 2-hour session with the (DBA) being onsite and available during the first week to offer rapid response to challenges.

**Monitoring & Controlling**

As the project is executed, each phase will be closely monitored. Meetings will be scheduled and the end of each business day for the first 5 days. During week, any reported functionality issues will be corrected and tested for remediation of the functionality issue. Upon a achieving the first 5 working days of successful operation, meetings will be scheduled for the 2nd and 4th day of the work week to discuss any observances and improvements that can be made.

**Closure**

Closure of the project will conclude with a final meeting to cover what has been accomplished. A brief overview of the decommissioned system and followed by a view of new enterprise resource planning system will be compared. Users of each department will present their experiences and the advantages of the new system. Contact information for follow-up will be provided and the project will have official of being successful and completed.

References

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