Zachman Framework

**Student Number:** 17024693

**Chosen Enterprise:** Pata Negra

**Brief description:** Pata Negra is a bar and restaurant located in Bristol city centre; falling under the company Hyde and Co, this company runs many other hospitality businesses. I have chosen this company for my project as I have experience working there; whilst working there they did not have any sort of information system in place to check which beverages were in stock when we have run out on the bar (except from going down to the cellar to check, and if you wanted to know how many are left then you would have to count them by hand), doing that would only be suitable on a stock counting day as doing this on shift would take hours given the volume of products.

The information system I have in mind is one that would allow a person who is on a bar with a till to be able to check the quantity of each product, this would increase overall efficiency because when a product is out of stock on the bar a bartender needs to go find a new one without knowing if there is one in stock. Being able to check the products stock on the till would allow for service to stay steady and efficiency to rise.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **What**  (Data) | **How**  (Function) | **Where**  (Location/Network) | **Who**  (People) | **When**  (Time) | **Why**  (Motivation) |
| **Scope**  (Contextual) | Product stock currently held within the stock room. | System will provide product  Type, name and stock quantity,  “  for example:  Beer:  Estrella Galicia (60 remaining)  “ | Pata Negra  30 Clare St, Bristol,  BS1 1YH.  (Could be applied to other Hyde & Co bars and restaurants) | Managers, Floor Staff, Bartenders.  (Could be applied to other Hyde & Co bars and restaurants) | When a product(s) is no longer on the shelf or in the fridge a check will be performed.  General Query to see stock. | Busy nights require all hands on the bar, when an item is no longer on the shelf a person is required to go downstairs to check if the item is in stock. This method will allow for the team to discover whether the item is still in stock or not.  (Overall improvement on time efficiency.) |
| **Enterprise**  (Conceptual) | Semantic data model or description of business processes. | BPMN diagram for stock quantity | Used within the bar till system. | Inventory Manager, | Bi-weekly stock check  (Subjective to the amount of business) | Business plan. Increase workflow and performance. |
| **Systems Model**  (Logical) | Logical data model. | Application architecture to describe how users interact with the system. | Architecture of the way the system will be dispensed (Distribution System Architecture) | Human system interaction model to  Describe how the user will interact with the new system. | Process structure, used to measure steps, phases, activities etc... | Functionality requirements.  Business rule model, used to describe the relevant rules within the business. |
| **Technology Model**  (Physical) | Physical Data model. | Systems designs for example, UML class diagrams. | Technological architecture of the system, used to show the overall design of the system. | Presentational architecture, people who will be using the system as well for example, bartenders and then possible back-end users. | Control structures used to keep track of the stock. | Rule designs, requirements for operation. |
| **Detailed Representation**  (Subcontractor) | Data definitions | More details design of the overall system, use of procedures, statements and other code relevant activities. | Network architecture which will use different address and communicational protocols. | Security architecture, used to create hierarchy of permissions for example manager has more permissions than regular employee. | Stock timing definitions, used to | Rule specifications for example the possible technical requirements needed for the system. |
| **Functional Areas**  (Functioning system) | Stock data for example, product name, type, stock, availability etc... | Procedural and system documentation used to outline the procedure of the process and describe the system. | Accessible from tills, online portal, mobile devices can be used to access database. | Owners, managers, employees, back-end developers etc.. | Business information and real time events for example workdays. | Operational requirements for the technology. |