**SRE Assignment on Requirement Collection**

Poultry and frozen food company is one of the common manufacturing industries where it sells poultry chicks, poultry and fish feed, organic product and frozen food product. To develop a proper application for these companies, as a project manager our main duty is to collect requirements by performing various means and techniques. This process includes:

1. Learning about the stakeholders of the company
2. Collecting and listing the requirements (business, functional, non-functional requirements)
3. Modeling the requirements
4. ***Learning about the stakeholders in the company:***

As a project manager their first job is to collect requirements by identifying the stakeholders. Some of the stakeholders with their purpose are shown below:

|  |  |
| --- | --- |
| **Stakeholders** | **Description** |
| Consumers | They are the key person who place order. They mainly help keep the company in good financial condition. |
| Store Clerk | They help keep track of the consumers by handling the purchase request. |
| Farmers | They are the ones who keep the company running without them a company will be unable to harvest any raw product. |
| Owner | They are the ones who oversee the whole company. |
| Suppliers | Their main job is to supply the product for the consumers. |

1. ***Collecting and listing the requirements:***

Some requirements for the frozen food company to operate are listed from interviews, questionaries, educating the stakeholders and brainstorming. They are listed in business requirements, functional requirements and non-functional requirements of the poultry and frozen food company.

***(2.1) Business Requirements***

|  |  |
| --- | --- |
| B.Rq. No | Business Requirements |
| BR-01 | To automate the ordering system in order to reduce the time-consuming order placement and confirmation. |
| BR-02 | Can handle large amount of orders and reduce the chance of cancellation |
| BR-03 | Reduce extra workers in the company by providing facility in the software |

***(2.2) Functional Requirements***

***(2.2.1) Consumers***

|  |  |
| --- | --- |
| Con.Rq. No | Functional Requirements |
| CR-01 | Can be able to register in the system and login. |
| CR-02 | System can enable them to order online through cash or in card. |
| CR-03 | System shall be able to provide them the opportunity to browse the food by category. |
| CR-04 | System can show them the expiry date of the product. |
| CR-05 | System can provide the ability to be able to add any product to the cart. |
| CR-06 | System shall provide the allergen information of any product. |
| CR-07 | System shall be able provide the purchase information of the product. |
| CR-08 | System shall be able to provide review of the frozen product. |
| CR-09 | System shall be able provide the ability to backorder any stock out products. |
| CR-10 | System shall be able to provide the customer a suggestion of similar products after purchasing. |
| CR-11 | System shall be able to fine the customers if a payment is delayed or not made in time. |

***(2.2.2) Store Clerk***

|  |  |
| --- | --- |
| St.Rq. No | Functional Requirements |
| ST-01 | System shall provide the ability to register and login into the system. |
| ST-02 | System shall be able to provide the ability to view any purchase orders, bills of landing and shipping documents of the product. |
| ST-03 | System shall be able to provide scan system to view the price tag of the product. |
| ST-04 | System shall provide the ability to handle consumer product orders. |
| ST-05 | System shall provide the ability to perform calculation on the product. |
| ST-06 | System shall able to provide data of any expired product. |
| ST-07 | System shall provide the ability to receive monthly adjusted in their account. |

***(2.2.3) Farmers***

|  |  |
| --- | --- |
| Fr.Rq. No | Functional Requirements |
| FR-01 | System shall provide the ability to register and login into the system. |
| FR-02 | System shall provide communication with the owner and other farmers. |
| FR-03 | System shall provide the ability to update the owner about the harvest. |
| FR-04 | System shall provide the farmers a tool to calculate the yield of the harvested product. |
| FR-05 | System shall provide the farmers with ability to add recipe for any product. |
| FR-06 | System shall provide the ability to complain about any issue. |
| FR-07 | System shall provide the ability to receive monthly payment adjusted in their account. |

***(2.2.4) Owner***

|  |  |
| --- | --- |
| Ow.Rq. No | Functional Requirements |
| OW-01 | System shall be able to provide the ability to add health and safety laws of food. |
| OW-02 | System can give the ability to maintain payroll tax laws. |
| OW-03 | System can give the ability to maintain wages of the workers. |
| OW-04 | System can give the ability to communicate with any members of system. |
| OW-05 | System can show the calculated profit and liability of the company. |

***(2.2.5) Suppliers***

|  |  |
| --- | --- |
| Su.Rq. No | Functional Requirements |
| SU-01 | System shall provide the ability to register and login into the system. |
| SU-02 | System shall provide the ability to maintain consumer delivery dates. |
| SU-03 | System shall provide the ability to see purchase orders. |
| SU-04 | System shall provide the ability to see the billing and shipping details of any product from consumer. |
| SU-05 | System shall provide the ability to cancel order from consumer. |
| SU-06 | System shall provide the ability to receive monthly payment adjusted in their account. |

***(2.3) Non-Functional Requirements***

***2.3.1. Usability Requirements***

USE-1: A trained customer can able to place the order from frozen food product catalog in an average of three minutes.

USE-2: A new customer who never used the system before can able to place order within ten minutes

***2.3.2. Security***

SEC-1: System will lock any user after 5th unsuccessful logging attempt

SEC-2: System will logout any user automatically after 15 minutes.

***2.3.3. Availability***

AVA-1: Limit the order of any product between 11 AM. to 11.59 PM.

1. ***Modeling the Requirements:***

One of the common ways a project manager can model the requirements is by using **Use Case** diagram. All the users use case diagrams are shown below:

Consumers

extend

include

include

include

Farmers

include

Store Clerk

extend

extend

include

Owner

Suppliers

extend

include