Hasnain Attarwala

Z1697740

Assignment #1

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**Request For Quote (RFQ) System**

CSCI467-1 **Requirement Analysis** Spring 2019

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| **Functional Requirements** | | |
| **Req #** | **Statements** | **Must have / Nice to have** |
| FR1 | The RFQ System must be able to request for Quotes (RFQ), must be able to keep track of IPS’s customers, customer’s request for quotes, and sales quotes and sales orders. | Must have |
| FR2 | The RFQ System’s customers must have an account before they can access the IPS’s RFQ system in order to place a request for quote (RFQ). | Must have |
| FR3 | The RFQ System’s sales manager is assigned a set of customers | Must have |
| FR4 | The RFQ System’s sales managers are responsible for providing (i.e. creating a customer account and notifying the customer) each of his customers with information to access to the new system. To create a new customer account, the manager enters the company name, company complete address for billing and shipping, first name, last name, email and phone number of the company’s representative. The sales manager also  indicates whether the customer can be auto-quote or manual-quote, and his (the manager’s) email address and phone number. | Must have |
| F45 | The RFQ System then creates a unique company identification number and password for each customer and notifies the customer’s representative via an email of the account login information (company id and password.) | Must have |
| FR7 | To enter a request for quote, the representative must first log into the RFQ system. The  customer may search for parts to get a part number before creating an RFQ. The RFQ function accepts a part number, the quantity for that part, and a required date. An RFQ may contain multiple parts. | Must have |
| FR8 | The RFQ System’s auto-quote, the system calculates the quote and displays the results to the customer immediately. The generated auto-quote contains a unique sales quote number, the date the quote was created, the part number, part description, part image(s), the quantity, the date that IPS can provide the part, the price and the date the quote expires. At this time, the sales quote has the “Created” status. | Must have |
| FR9 | The RFQ System’s sale quote (auto or manual) expires 30 days from the quote date | Must have |
| FR10 | The RFQ System’s manual-quote, then the system notifies the sales manager  of the customer’s RFQ. When a sales manager receives manual RFQs | Must have |
| FR11 | RFQ system must allow a sales manager to create a sales quote for a  submitted manual-quote. This means he/she must be able to select the customer with the | Must have |
| FR12 | The RFQ System’s associated/existing RFQ(s) that the customer created previously including the requested part number, description, quantity and the required date. He/she must be able to indicate the date IPS can provide the part and the price. The system then calculates and displays the date when the quote expires (30 days from the indicated provide date). | Must have |
| FR13 | The sales manager may confirm to create the sales quote and the system assigns a unique sales quote number for the generated sales quote. At this point, the sales quote has a status of “Created.” | Must have |
| FR14 | The sales manager selects to submit the generated sales quote to the customer, the system updates the status of the quote to “Submitted to Customer” and notifies the customer of the sales quote. | Must have |
| FR15 | The RFQ System’s accept sales quote function accepts a valid, unexpired sales quote number. After accepting the quote, the system updates the sales quote status to “Accepted” and automatically generates a sales order based on the data associated with the sales quote and associates the sales order to the customer. | Must have |
| FR16 | customer may reject a sales quote it receives from IPS. Once the customer chooses to reject  an existing generated sales quote(s), the system notifies the associated sales manager at IPS. The system must update the sales quote status to “Cancelled by Customer” and notify the sales manager and the customer. | Must have |
| FR17 | The RFQ System’s sales order contains a unique order number, order date, required date, the customer name and complete address where to send the invoice and where to ship the ordered parts (each order line contains part number, description, order quantity and unit price) and sales order total amount. | Must have |
| FR18 | After the sales order is generated, the system sends a copy of the sales order to the associated customer using the email address of the customer’s representative. It also generates and sends notifications to IPS’s Accounts Receivable (AR), Sales Order Management (SOM) and Inventory Management (IM) systems. | Must have |
| FR19 | The RFQ System must provide reporting function that allows sales managers to  run detailed and/or summary status reports for request for quotes (auto and/or manual) and sales orders. | Must have |
| **NON-Functional Requirements** | | |
| **Req #** | **Statements** | **Must have / Nice to have** |
| NF1 | The RFQ System must be robust and reliable (Performance) | Must have |
| NF2 | The RFQ System must be accessible by IPS’s  authorized customers and employees (Reliability) | Must have |
| NF3 | The RFQ System must also interface with IPS’s Accounts  Receivable (AR), Sale Order Management (SOM) and Inventory Management (IM) systems. (Supportability) |  |
| NF4 | The RFQ System’s customer’s representative can then use the company’s id and password to access the IPS’s RFQ system to make a request for quote. (Supportability) | Must have |
| NF5 | The RFQ System’s customer can accept a sales quote, the customer must log into the RFQ system with his/her company id and password (Usability) | Must have |
| NF7 | The RFQ System must be easy to use. (Usability) | Should have |
| NF8 | The RFQ System must be easy to maintain. (Maintainability) | Should have |