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Assignment #1

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Request For Quote (RFQ) System

CSCI467-1   **Requirement Analysis**   Spring 2019

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	Must have

	indicates whether the customer can be auto-quote or manual-quote, and his (the manager's) email address and phone number.	
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