

IP1- Requirements Analysis

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Course Number	CSCI 567
Assignment number	Assignment 1
Due date and time	9:30 a.m., Thursday, 9/14/2017

Functional Requirements

Req. #	Complete Statements	Must Have or Nice to Have
FR1	All employees of GPS system must have authorized access to the new Request for Quote system .They must have employee unique identification number , employee name(first name , last name), employee address(street , city, zip-code, country), email and phone number.	Must have
FR2	All customer's must have an account before they can access the GPS's new RFQ system in order to place a Request for quote. The new Request for quote system must allow each authorized manager to create a new customer account by entering each customer company name,company's complete billing address (street, city , zip-code, country), company's complete shipping address where the sales order is sent (street, city , zip-code, country), company's representative(first name , last name) , email and phone number of the company's representative	Must have
FR3	The new system must allow authorized managers to update an existing customer account	Must have

FR4	The new system must also allow a sales manager to indicate whether the authorized customer can be auto-quote or manual quote .	Must have
FR5	The system then must create 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
FR6	The customer's representative must be able to use the company's id and password to access the GPS's RFQ system to make a request for quote.	Must have
FR7	The authorized customer may be allowed to 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.	Nice to have
FR8	The system must display the results to the customer immediately for an auto-quote customer account. The generated auto-quote must contain a unique sales quote number, the date the quote was created, the part number, part description, part image(s), the quantity, the date that GPS can provide the part, the price and the date the quote expires. At this time the system must update the sales order status to "Created"	Must have
FR9	If the customer's account is a manual-quote, then the system must notify the sales manager of the customer's RFQ. When a sales manager receives manual RFQs, he/she must search the quote request based on sales history, available inventory, and market availability – all of these search activities must be performed outside of the RFQ system	Must have
FR10	The new RFQ system must allow a sales manager to create a sales quote for a submitted manual-quote by enabling him to select the customer with the 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 GPS can provide the part and the price.	Must have
FR11	The new RFQ system must allow the authorized manager to update a new sales quote	Must have
FR12	The new RFQ system must be able to calculate and display the date when the quote expires (30 days from the indicated provide date). Once all input data is correct, the sales manager must be able to confirm to create the sales quote and the system must assigns a unique sales quote number for the generated sales quote. At this point, the system must update the sales quote status as "Created."	Must have
FR13	If the sales manager selects to submit the generated sales quote to the customer, the system must update the status of the quote to "Submitted to Customer" and must notify the customer of the sales quote.	Must have
FR14	The new RFQ system must also allow an authorized customer to accept an unexpired sales quote by log into the RFQ system with his/her company id and password. The accept sales quote function accepts a valid, unexpired sales quote number. After accepting the quote, the system must update the sales quote status to "Accepted" and automatically generate a sales order based on the data associated with the sales quote and associate the sales order to the	Must have

	customer.	
FR15	A sales order must contain 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
FR16	The customer may be able to reject a sales quote it receives from GPS. After a customer rejects an existing generated sales quote(s), the system must notify the associated sales manager at GPS. The system must update the sales quote status to “ Cancelled by Customer ” and notify the sales manager and the customer.	Must have
FR17	After the sales order is generated, the system must send a copy of the sales order to the associated customer using the email address of the customer’s representative. It must also generate and send notifications to GPS’s Accounts Receivable (AR), Sales Order Management (SOM) and Inventory Management (IM) systems.	Must have
FR18	The new RFQ system must allow authorized sales manager’s 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. #	Complete Statements	Must Have or Nice to Have
NF1	The Request for quote System can be accessed by authorized employees and managers, who have login ids and passwords.	Must Have
NF2	The Request for quote System can be accessed by authorized customers, who have company’s login ids and password to access the GPS’s RFQ system to make a request for quote.	Must Have
NF3	The new system named, Request For Quotes (RFQ), must be able to keep track of GPS’s customers, customer’s request for quotes, and sales quotes and sales orders.	Must Have
NF4	The Request for Quote System must be available 24 hours per day, seven days per week.	Nice to have
NF5	The new system named, Request For Quotes (RFQ), must be able to keep track of GPS’s customers, customer’s request for quotes, and sales quotes and sales orders.	Must have
NF6	The Request for quote System must be able to interface with GPS’s Accounts Receivable(AR),Sale Order Management (SOM) and Inventory Management (IM) systems.	Must have
NF7	At GPS, each sales manager must be assigned to a set of customers.	Must Have

NF8	A sales manager is 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	Must have
NF9	The new system should have an option to reset their authorization credentials.	Nice to have

