# IP2- Object Analysis

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| Student zID | Z1836412 |
| Course Number | CSCI 567 |
| Assignment number | Assignment 2 |
| Due date and time | 9:30 a.m., Thursday, 9/28/2017 |

## OBJECT Analysis

| Req No | Boundary Object(s) | Use Case Name | Business Object(s) | Properties/Attributes |
|---|---|---|---|---|
| FR1 | Sales Manager | Creates a new customer account | Customer Account | 1. Unique customer-ID<br>2. Company Name<br>3. Billing Address street<br>4. Billing Address city<br>5. Billing Address state<br>6. Billing Address Zip-code<br>7. Shipping Address street<br>8. Shipping Address city<br>9. Shipping Address state<br>10. Shipping Address Zip-code<br>11. Company Representative First name<br>12. Company Representative last name<br>13. Company Representative email<br>14. Company Representative phone number<br>15. Customer Quote (auto or manual)<br>16. Sales Manager email<br>17. Sales Manager phone number |
| FR2 | Sales Manager | Creates a new airplane inventory part | Airplane Inventory Part | 1. Unique part number<br>2. Part name<br>3. Bar-code<br>4. Part description<br>5. Quantity<br>6. Listing/Selling price(optional)<br>7. Manufacturer name<br>8. Image(s)<br>9. Comments |
| FR3 | Customer | Creates a | Request for | 1. Unique RFQ number |

| | | | | |
|---|---|---|---|---|
| | Representative | Request for quote | Quote | 2. Quantity<br>3. RFQ status<br>4. Require Date<br>For Part Number refer to requirement #FR2 |
| **FR4** | Sales Manager | Create sales quotes | Sales Quote | 1. Unique Sales quote number<br>2. Quote creation date<br>3. Date of availability by GPS<br>4. Quote Accepted date<br>5. Quote Expiration date (quotes expires 30 days after Quote creation date)<br>6. Quote Status (created, submitted, approved)<br>For Part number, Part description, Part Price Part images(s)) refer to requirement #FR2<br>For Quantity, RFQ Status refer to requirement #FR3 |
| **FR5** | Sales Manager | Submits the Sales quote | Sales Quote | For attributes, refer to requirement #FR4 |
| **FR6** | Customer Representative, | Accept unexpired Sales quote | Sales Quote | For attributes, refer to requirement #FR4 |
| | RFQ system | Generates a sales order | Sales Order | 1. Unique Sales order number<br>2. Sales order Date (Quote Accepted date of "Sales Quote")<br>3. Sales Order Total Amount<br><br>For Customer Name, Customer Billing Address and Customer Shipping Address refer to requirement #FR1<br><br>For Part Number, Part Description and, Part Price, refer to requirement #FR2<br><br>For Ordered Quantity, refer to requirement #FR3<br><br>For Required Date, refer to requirement #FR4 |

**Business Class Diagram For RFQ System**

**Customer Account**

- Unique customer-ID
- Company Name
- Billing Address street
- Billing Address city
- Billing Address state
- Billing Address Zip-code
- Shipping Address street
- Shipping Address city
- Shipping Address state
- Shipping Address Zip-code
- Company Representative First name
- Company Representative last name
- Company Representative email
- Company Representative phone number
- Customer Quote (auto or manual)
- Sales Manager email
- Sales Manager phone number
- Comments

1..*  0..*  **creates**

**Request for Quote**

- Unique RFQ number
- Unique customer-ID
- Part Number
- Quantity
- RFQ status
- Require Date
- Comments

1  parts can be requested from  1..*

**Airplane Inventory Part**

- Unique part number
- Part name
- Bar-code
- Part description
- Quantity (default=1)
- Listing/Selling price(optional)
- Manufacturer name
- Image(s)
- Comments

1..*  **can be ordered**  1

1  **accepted**  1

**Sales Quote**

- Unique Sales quote number
- Part Number
- Part Description
- Part Price
- Part Image(S)
- Quantity
- RFQ Status
- Quote creation date
- Date of availability by GPS
- Quote Accepted date
- Quote Expiration date (quotes expires 30 days after Quote creation date)
- Quote Status (created, submitted, approved)
- Unique RFQ number
- Comments

1  **associated**  1

**Sales Order Header**

- Unique Sales order number
- Sales order Date (Quote Accepted date of "Sales Quote")
- Customer Last Name
- Customer First Name
- Customer Billing Address street
- Customer Billing Address city
- Customer Billing Address state
- Customer Billing Address Zip-code
- Customer Shipping Address street
- Customer Shipping Address city
- Customer Shipping Address state
- Customer Shipping Address Zip-code
- Sales Order Total Amount
- Required Date
- Comments

1  **contains**  1..*

**Sales Order Line**

- Line number
- Part Number
- Part Description
- Part Price
- Ordered Quantity
- Line Comments