**Features/Requirements of Sprint 1**

**Features implemented so far:**

|  | *Feature 1:* | *Feature 2:* | *Feature 3:* |
| --- | --- | --- | --- |
| Description | Take the input from user | Store all suppliers and price of selected item | Find item of minimum quote |
| Source | Input by the user | Class Main | Class Main |
| Destination | Search query for feature 2 | Array of Row class objects with matching item ID. | Feature 4 |
| Action | Reads item id from the console and store value | Store all suppliers and price of selected item | Recursive looping to find the item with the minimum cost. |
| Requires | User input | Class Row, database of items | Array of Row objects. |
| Side-effects | Initiate feature 2 | Filters the database by the item id | Provides the minimum cost and supplier for item ID. |

|  | *Feature 4:* | *Feature 5:* |
| --- | --- | --- |
| Description | Compare quote with the budget | Unavailable item |
| Source | Class Main | Class Main |
| Destination | Console or queue | Console |
| Action | Item price is compared with the budget. If the quote is below the budget, send it to the console. If over the budget send to queue. | If an item is unavailable, output an error message and ask for another input. |
| Requires | Budget, quote from supplier | Input of user (item number) |
| Side-effects | Writes to queue or output purchase confirmation | Nothing |

**Features to be implemented in the next sprint:**

|  | *Feature 1:* | *Feature 2:* | *Feature 3:* |
| --- | --- | --- | --- |
| Description | Supervisor approval | Redeeming option to modify quotation | Display all suppliers sorted by cost. |
| Source | Supervisor keyboard input | Class Main | Class Row array |
| Destination | Supervisor order approval text file | Q.txt | Console log |
| Action | Supervisor receives quote and approve refuse purchase | Allow employee to delete last quotation of more than $5000 in queue file | Outputs all suppliers by cost for item. |
| Requires | Input, item quotes | Queue file | Array of Row objects. |
| Side-effects | Modify the queue as purchase is approved or refused | Employee can modify the item inquiry | Provides the minimum cost and supplier for item ID. |

|  | *Feature 4:* | *Feature 5:* |
| --- | --- | --- |
| Description | Login option  (supervisor + employee) | Add suppliers name instead of IDs (dictionary) |
| Source | Class Main | Supplier database |
| Destination | Array of Row class objects with matching item ID. | Console log |
| Action | Store all suppliers and price of selected item | Dictionary for matching suppliers with their id. |
| Requires | Class Row, database of items | Supplier database |
| Side-effects | Filters the database by the item is | Better readability for all outputs. |