# Elaboration Phase

Requirements:

1. Functional
   1. Connect to SQL, Be able to connect to th SQL server
   2. Display Data in a Table, Display data from SQL to the user
   3. Query data to SQL, Query both ways, update and fetch data
   4. Filter Columns in table, Filter columns in tables
   5. Filter number of rows, Filter rows in tables
   6. Filter by date, Filter table view by date
   7. Edit Table, Edit instances in table, this gets uploaded to SQL
   8. Reset Table, Reset filters applied to table
2. Usability
   1. Web Application
   2. Available across network, Several computers will need access
   3. Distinct grouping of table pages, Easier to navigate to correct table
3. Reliability
   1. Run 24x7, production doesn’t stop
   2. Website doesn’t crash when errors occur.
   3. Certificate for website is trusted
   4. Handles query exceptions
   5. Handle connection exceptions
4. Performance
   1. Insignificant loading time on user interaction
   2. Several users at once
5. Supportability
   1. GUI is made up of components, modular
   2. Runs on IIS

# Fully Dressed Use Case document

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| Display Data | |
| Scope | Recipe data presentation |
| Level | User Goal |
| Primary Actor | Operators |
| Stakeholders and Interests | Factory Manager wants an increase in traceability and efficiency, Operators wants a higher degree of automation, Global IT is concerned of the security. |
| Preconditions | SQL database, Automated data upload to SQL, IT infrastructure correctly set up |
| Success Guarantee | Data is displayed. Rows are sorted in the right order. Correct naming for Columns. Right data types and decimal numbers for floats. |
| Main Success Scenarios | 1. Initialize filter 2. Set Table Parameters 3. OnInitializedAsync(): Filter columns from config (Config is already fetched from startup service) 4. Load table Component in page    1. Initialize Queries    2. Initialize TableList    3. Initialize DataFormater    4. OnInitializedAsync(): TableUpdate()       1. GetRecipe       2. FormatRecipe    5. Load Data in UI       1. Places columns based on filter       2. Places rows on table |
| Extensions | 4.ii:Query is wrong, SQL doesn’t return valid data  4.i Data is formatted the wrong way |
| Special Requirements |  |
| Technology List |  |
| Frequency of occurrence | Every time Table page is loaded |
| Miscellaneous |  |
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