

## PROJECT: DIVISION2 RECON

This is a sketch for development of the four requirements for Process Data Epic:

**Requirement 1 (US-1):** As Admin, I want to visualize all processes in an overview, so that I can select the desired process:

**Solution:**

- Developer can visualize the Process based on the process list/type.
- Developer can have tabs related to each process which will help user to visualize the process according to the process type.
- There can be an option 'All', which will visualize all process

| Wassenburg Medical                              |               |            |            |                          |             |                         |                                  |            |        |       |              |             |                     |
|---|---------------|------------|------------|--------------------------|-------------|-------------------------|----------------------------------|------------|--------|-------|--------------|-------------|---------------------|
| Analysis Based On:                              |               |            |            |                          |             |                         |                                  |            |        |       |              |             |                     |
| Process Customer Sensor                         |               |            |            |                          |             |                         |                                  |            |        |       |              |             |                     |
| All Dis WashDis WashDisWash                     |               |            |            |                          |             |                         |                                  |            |        |       |              |             |                     |
| Filter using Keywords                           |               |            |            |                          |             |                         | List the processes based on tabs |            |        |       |              |             |                     |
| Customer Id                                     | Customer Name | Machine Nr | Machine Id | Machine Type Serial      | Process     | Process Start Time      | Process End Time                 | Water Temp | Pump10 | Pump5 | Drain Sensor | Water Level | Online From         |
| 3123  | UMC Utrecht U | UMC-342    | 21         | EWD220;338198304139 01   | WashDisWash | 2019-13-02 21:13:11.328 | 2019-13-02 22:03:00.327          | celcius:23 | off    | on    | off          | ml-432      | 27-07-2014 10:02:37 |
| 2954  | UMC Utrecht U | UMC-536J   | 22         | EWD440;481385081010 1    | WashDis     | 2019-20-04 20:10:04.129 | 2019-20-04 21:29:20.734          | celcius:25 | on     | off   | off          | ml-382      | 08-09-2017 18:12:43 |
| 1224  | AMC           | AMC1-32    | 21         | EWD440-PT;36849839827301 | Dis         | 2019-12-09 23:54:12.349 | 2019-12-09 23:59:14.343          | celcius:22 | off    | on    | on           | ml-30       | 29-06-2016 16:55:02 |
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**Requirement 2 (US-2):** As Admin, I want to view the details of one process, so that I can analyse the data:

**Solution:**

- Users can switch to different process tabs to have an overview of one process.

| Wassenburg Medical   |               |            |            |                      |         |                         |                         |            |        |       |              |             |                     |
|--|---------------|------------|------------|----------------------|---------|-------------------------|-------------------------|------------|--------|-------|--------------|-------------|---------------------|
| Analysis Based On:   |               |            |            |                      |         |                         |                         |            |        |       |              |             |                     |
| <div> <div>Process</div> <div>Customer</div> <div>Sensor</div> </div>                |               |            |            |                      |         |                         |                         |            |        |       |              |             |                     |
| <div> <div>All</div> <div>Dis</div> <div>WashDis</div> <div>WashDisWash</div> </div> |               |            |            |                      |         |                         |                         |            |        |       |              |             |                     |
| Filter using Keywords  |               |            |            |                      |         |                         |                         |            |        |       |              |             |                     |
| Customer Id  | Customer Name | Machine Nr | Machine Id | Machine Type Serial  | Process | Process Start Time      | Process End Time        | Water Temp | Pump10 | Pump5 | Drain Sensor | Water Level | Online From         |
| 2954   | UMC Utrecht U | UMC-536J   | 22         | EWD440;4813850810101 | WashDis | 2019-20-04 20:10:04.129 | 2019-20-04 21:29:20.734 | celcius:25 | on     | off   | off          | ml-382      | 08-09-2017 18:12:43 |
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**Requirement 3 (US-3):** As Admin, I want to search processes based on customers name, so that I can view processes related to the desired customer:

**Solution:**

- Users can search the process using **filter by keywords** option available in each tab.
- Further, customer button is provided filter data based on customers and analyse the data as per their need.

| Wassenburg Medical  |               |            |            |                       |             |                         |                         |            |        |       |              |             |                     |
|---|---------------|------------|------------|-----------------------|-------------|-------------------------|-------------------------|------------|--------|-------|--------------|-------------|---------------------|
| Analysis Based On:  |               |            |            |                       |             |                         |                         |            |        |       |              |             |                     |
| <div> <div>Process</div> <div>Customer</div> <div>Sensor</div> </div> |               |            |            |                       |             |                         |                         |            |        |       |              |             |                     |
| <div> <div>All</div> <div>AMC</div> <div>UMC Utrecht U</div> </div>   |               |            |            |                       |             |                         |                         |            |        |       |              |             |                     |
| Filter using Keywords   |               |            |            |                       |             |                         |                         |            |        |       |              |             |                     |
| ustomer Id  | Customer Name | Machine Nr | Machine Id | Machine Type Serial   | Process     | Process Start Time      | Process End Time        | Water Temp | Pump10 | Pump5 | Drain Sensor | Water Level | Online Fron         |
| 3123  | UMC Utrecht U | UMC-342    | 21         | EWD220;33819830413901 | WashDisWash | 2019-13-02 21:13:11.328 | 2019-13-02 22:03:00.327 | celcius:23 | off    | on    | off          | ml-432      | 27-07-2014 10:02:37 |
| 2954  | UMC Utrecht U | UMC-536J   | 22         | EWD440;4813850810101  | WashDis     | 2019-20-04 20:10:04.129 | 2019-20-04 21:29:20.734 | celcius:25 | on     | off   | off          | ml-382      | 08-09-2017 18:12:43 |

**Requirement 4 (US-4):** As Admin, I want to search processes based on specific sensor and/or sensor data value:

**Solution:**

- Users can search the process using **filter** option based on sensors.
- Further, sensor button is provided to filter data based on sensor and analyse the data as per their need.

## Wassenburg Medical

Analysis Based On:

Process

Customer

Sensor

Water Temp Filter

Pump 10 Filter

Pump 5 Filter

Drain Sensor Filter

Water Level Filter

| Customer Id | Customer Name | Machine Nr | Machine Id | Machine Type Serial      | Process     | Process Start Time      | Process End Time        | Water Temp | Pump 10 | Pump 5 | Drain Sensor | Water Level | Online From         |
|-------------|---------------|------------|------------|--------------------------|-------------|-------------------------|-------------------------|------------|---------|--------|--------------|-------------|---------------------|
| 3123        | UMC Utrecht U | UMC-342    | 21         | EWD220;338198304139 01   | WashDisWash | 2019-13-02 21:13:11.328 | 2019-13-02 22:03:00.327 | celcius:23 | off     | on     | off          | ml-432      | 27-07-2014 10:02:37 |
| 2954        | UMC Utrecht U | UMC-536J   | 22         | EWD440;481385081010 1    | WashDis     | 2019-20-04 20:10:04.129 | 2019-20-04 21:29:20.734 | celcius:25 | on      | off    | off          | ml-382      | 08-09-2017 18:12:43 |
| 1224        | AMC           | AMC1-32    | 21         | EWD440-PT;36849839827301 | Dis         | 2019-12-09 23:54:12.349 | 2019-12-09 23:59:14.343 | celcius:22 | off     | on     | on           | ml-30       | 29-06-2016 16:55:02 |

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## Developer Guide:

In order to start the project, follow the below Steps:

- Pre-requisite:
  - *github cli*
  - *node 14.15.1*
  - *VS Code*
  - *chrome*
  - *angular cli 12*
- Clone the repository to local environment --
  - *git clone https://github.com/shai0946/assignment\_1.git*
- Run the below command in command prompt for package installation: *npm install*
- Run the command to Builds and serves your app, rebuilding on file changes.: *ng serve*
- Angular Live Development Server will be listening on localhost:4200, open your browser on <http://localhost:4200/>

Backend: Table is converted in json file and read from *src\assets\json\dataFile.txt*.