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USER requirements specification

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introDuction

This project is about abc

**USE CASES**

All use cases have the system user as the only actor involved, furthermore all the use cases are of the sea-level.

Use Case: Add component  
Pre-condition: The user has the main form for the GUI of the pipeline app open on his/her PC.

1. User picks the component they want to place from the list of components in the toolbox on the right side of the form.
2. System makes the selected component as the actively chosen component (eg. Component is highlighted in toolbox).
3. User clicks on the position he wishes to place the component on in the drawing screen.
4. System draws a copy of the selected component on the drawing screen at the position chosen by the user.

Exceptions:

1.a) The component chosen is a pump.

1. System prompts user for max flow and current flow to assign to the pump. (can be implemented in various ways including on bottom of toolbox)
2. User assigns values for max and current flow.
3. Continue from step 2 in MSS

1.b) The component chosen is a adjustable splitter.

1. System prompts user for upper and lower output flows to be assigned to the adjustable splitter. (can be implemented in various ways including on bottom of toolbox)
2. User assigns values for upper and lower output flow.
3. Continue from step 2 in MSS

Use Case: Remove Pipeline  
Pre-Condition: The drawing screen must have at least two components with at least one pipeline connecting the components.

1. User selects remove pipeline button on the toolbox on the right side of the form.
2. System goes into delete pipeline mode.
3. User selects the pipeline he/she wants to delete from the drawing screen.
4. System removes the selected pipeline.

Use Case: Remove Component  
Pre-condition: Component must exist on the drawing screen.

1. User selects remove component button from the toolbox on the right side of the form.
2. System goes into delete component mode.
3. User selects the component to delete from the drawing screen.
4. System removes the component from the drawing screen.

Exceptions:

3.a) Selected component has one or more connected pipelines.

a) System prompts user asking if he/she wants to delete the component and gives warning that deleting the component will also remove all connected pipelines.

b) User gives selection (either YES or NO)

b)i) User selects YES

c)i) System removes the component and all its connected pipelines from the drawing screen

b)ii) User selects NO

c)ii) End of use case.

# Functional Requirements (use-cases)

# User Interface

# Non-functional Requirements (other requirements)