

**Note:** We had a meeting with the user on 3/10/25 asking more details about what he wants from us.

### Types of Diagrams:

- Class diagram
- Use Case Diagram
- Block Based Diagram
- Package Diagram
- Activity Diagram

### User interface screens:

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#### Product Life Cycle Assessment Comparison

##### Process A

###### Step 1: Material Extraction

Energy Consumption (kWh):

##### Process B

###### Step 1: Material Extraction

Energy Consumption (kWh):

A design similar to the following website: <https://netzero.imec-int.com/>

### Processes the website Calculates:

- Precursor chemical (chemical name / chemical formula)
- Precursor chemical (maximum obtainable product)
- Process time
- Power rating

### Website Outputs:

- Slurry volume(liters)
- slurry density(kg/L)
- Delivered Abrasive Loading (wt%)
- Abrasive Content per slurry tank(kg/L)
- Abrasive Content per slurry tank(g/L)
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### User Inputs:

- Process Information Tab
  - Process Step/Name (required to input)
  - Precursor Materials (drop down select) (optional to input)
  - Solvents (drop down select) (optional to input)
  - Water (drop down select) (optional)

**List of Diagrams we are thinking of doing:**

- Class diagram
  - A base process class
- Use Case Diagram
  - For each sheet in the Excel
- Block Based Diagram
  - Components of each Process
- Package Diagram
  - Compare the different processes
- Activity Diagram
  - What information the user enters and what is returned

**Diagrams we did make:**

- Class diagram
- Use case diagram
- Activity diagram