**Component specification**

**Software components:**

1. A function for GUI
2. Function to import .csv, .xlxs files
3. Function to select Name, concentration, etc.
4. Function to find down-regulator and up-regulator, using t-test
5. Function to output data
6. Function provides a clipboard for users to copy and paste on the website
7. Function for separation of different metabolites
8. Function to identify metabolites and convert name into PubCamID

**Interactions to accomplish User Cases:**

GUI helps researchers to interact with the package

**Preliminary plan:**

11/13 – finish the basic function which yield a usable output the website can take