Flow Chart Algorithm:

1. First user selects their DGU and the major that they are interested in looking at.
2. From there a user would have to select a track. Once the user has selected a track a flowchart will be created.
   1. The chart will be organized in groups based on the following selection criteria. Each entity is a one to many relationship.
      1. DGU to Majors
      2. Majors to Tracks
      3. Tracks to Groups
      4. Groups to Sets
      5. Sets to Courses
   2. The chart will be organized by groups:
      1. Pre-requisites
      2. Core Requirements
      3. Electives
   3. Inside each of these groups, the courses will be retrieved from the corresponding flowchart table.
      1. Each chart will be organized based on its position. Each course will be laid out in a flow layout with a specific number of fields available in each row.
   4. Users can modify the structure of these groups by moving these courses dynamically. When moving courses their positon value will be updated.
   5. If the user clicks save when finished with the flowchart, the changes will be replicated to the database so when that flowchart is reloaded the order is preserved.