

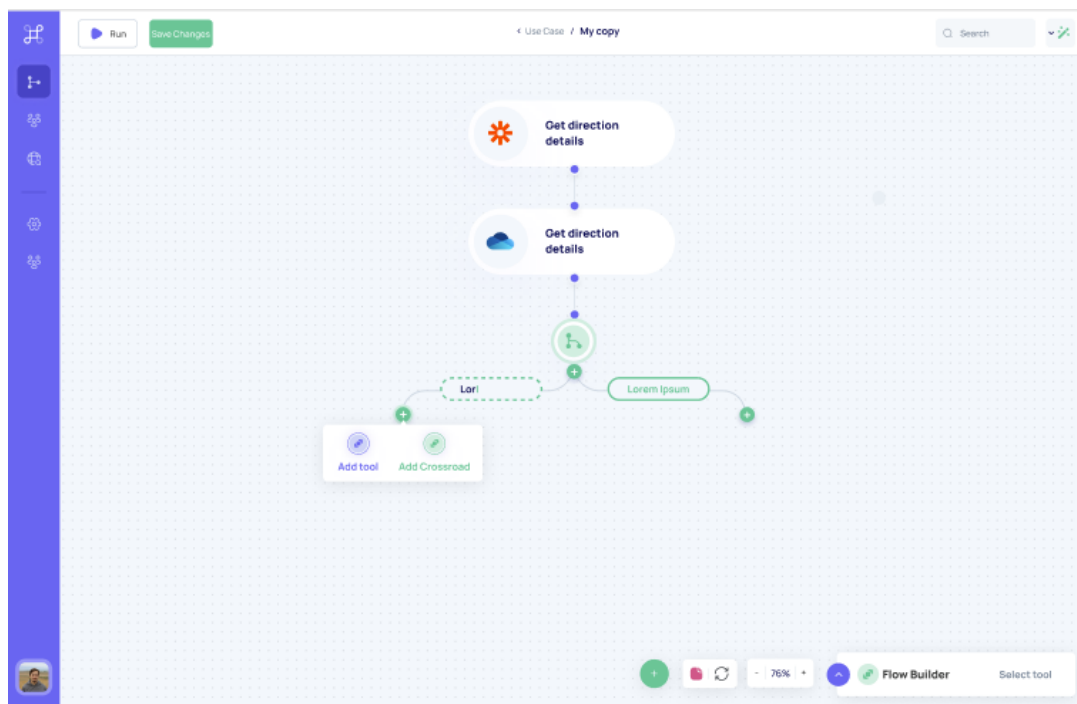
React Task - Graph Builder

Your mission is to create a basic graph builder which works as a linked list.

You have 2 node types:

1. Tool - which can be linked to another node
2. Crossroad - is a node which is linked (like a tool) to another node, but can be links to multiple nodes (2 or more)

Here is an illustration of a full builder which starts with two tools, then a crossroad with two routes, each one of them can link to another tool/crossroad and so on:



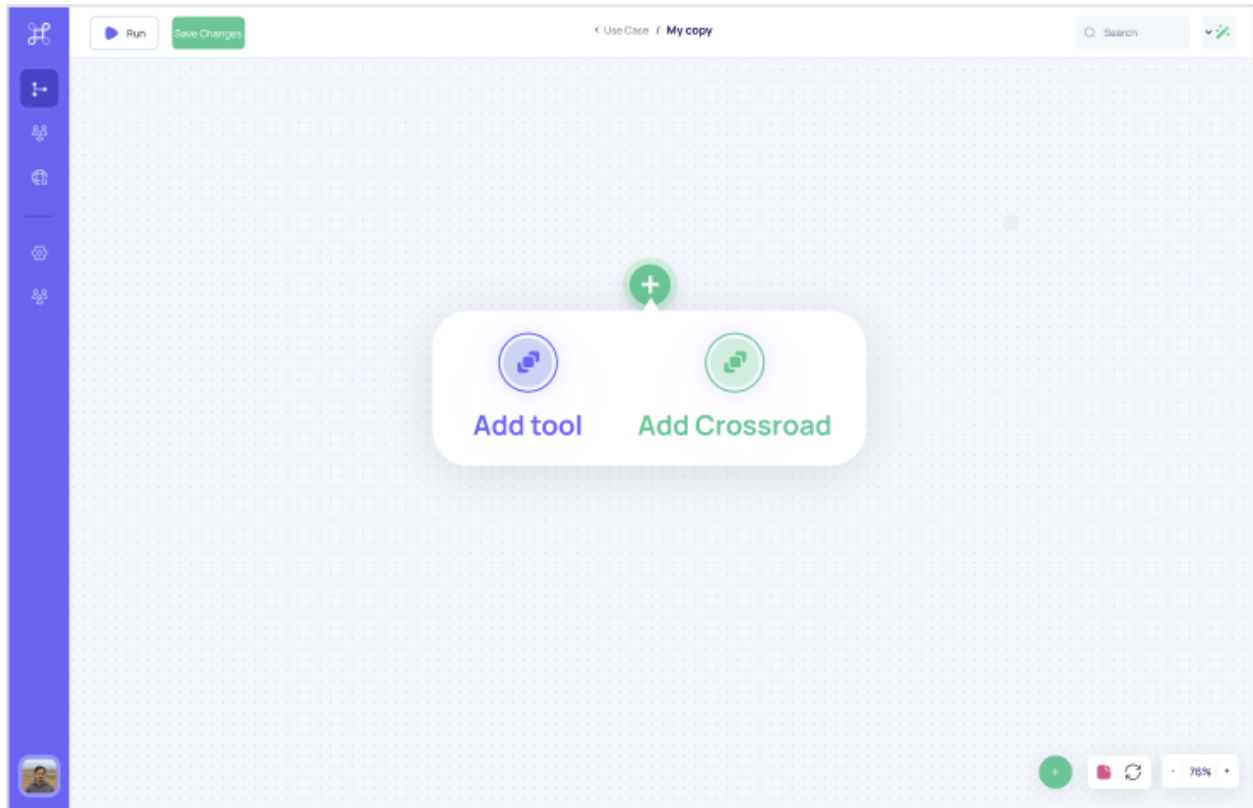
Requirements:

1. Each node in the graph should have a sequence number (1-n)
2. The user start with a blank canvas and a “plus” icon (for creating the first tool)
User can choose a tool, or a crossroad and start linking new tools/crossroads
3. Run button for exporting / logging to console the JSON structure of the graph that was built by the user.

UI Visual Reference

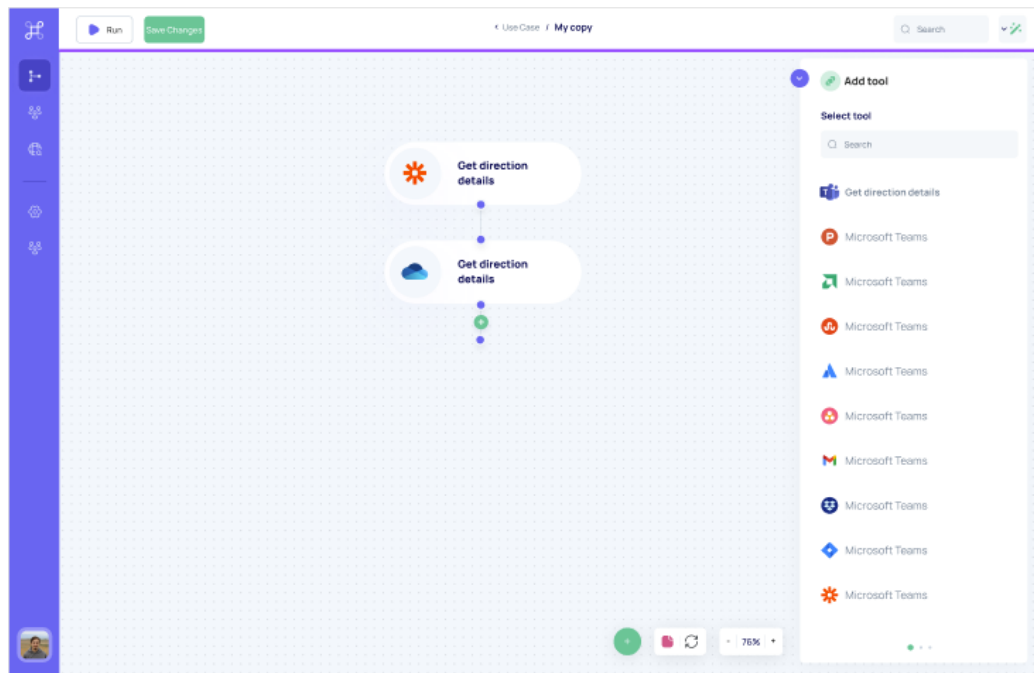
- don't put too much effort on styling, or on making your visual looks like in the following pictures

Empty state:



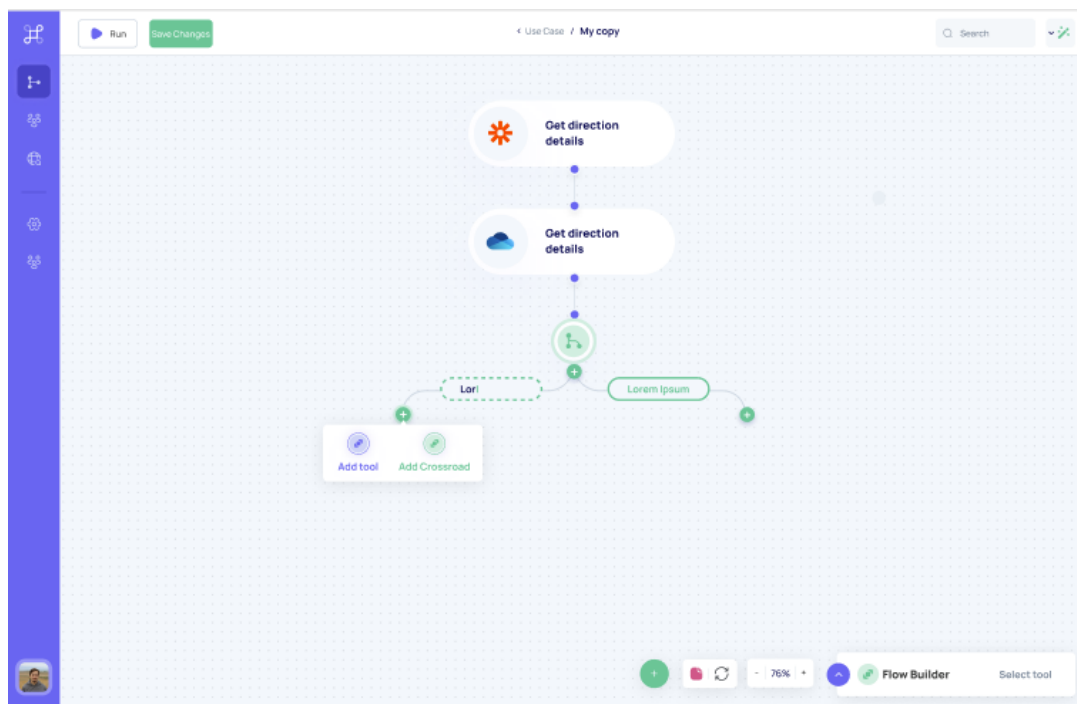
Add a Tool (List of tools should be static):

- * search functionality is not a requirement
- * new nodes are being added using the plus button



Add Crossroad:

- * Creates 2 routes by default (each route should have a label - no need to be fancy)
- * Crossroad 'plus' button adds a new route
- * Route 'plus' button adds a new tool under the chosen route



In the illustration above, the “Run” button can be used for exporting the graph json, or to log it to the console.