

A decorative graphic on the left side of the slide consisting of two overlapping parallelograms. The front one is blue and the back one is light green. They are positioned diagonally, with the blue one partially covering the green one.

LAP Visual IDE

Limitless Automation Possibilities



Team Info

Andrew

- Gym enjoyer
- Game Maker

Will

- Just another broke college senior
- Javascript flavors aficionado

Jacob

- Big gamer
- Can't wait for semester to be over

Alex

- Music lover
- Programming is “fun”

Wesley

- Gamer (shocking)
- Coding is a lifestyle



Client Info

Blue Ridge Automation

- Develops automation software designed to make monotonous tasks easier
- Notable clients include:
 - Nestle
 - Kroger
 - Ingredion
 - Starbucks
- LAP is their main software that is sold
 - This is what our IDE will be for
 - Helps programmers develop automation code for factories visually and intuitively.



Mentor Feedback

Mid-iteration

- Discussed steps implementation
- Thought it looked good with how little direction we we're given
- Discussed with ben to clarify how he wants this implemented.

Pre-release

- Good progress on the steps
- Thinks that it looks cleaner than before
- More work to be done on bugs
 - Planned



Client Feedback

Feedback

- Likes the display of the steps
- Clarified on a couple aspects
 - There is no “reset” or “next” step, only steps with attributes set to ‘reset’ or “next”
 - planned
 - Three step handles should be on bottom
 - Completed
- Several other partially incorrect implementations
 - planned

Use of Software

- Wanted the steps to be more configurable
- Wants default colors for different types of nodes
- Wants configuration options for node types and database
- All Above Planned

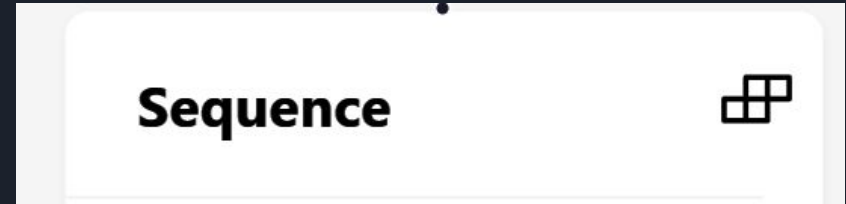
Iteration 3 Features



FR21: Steps/Subsequences Button

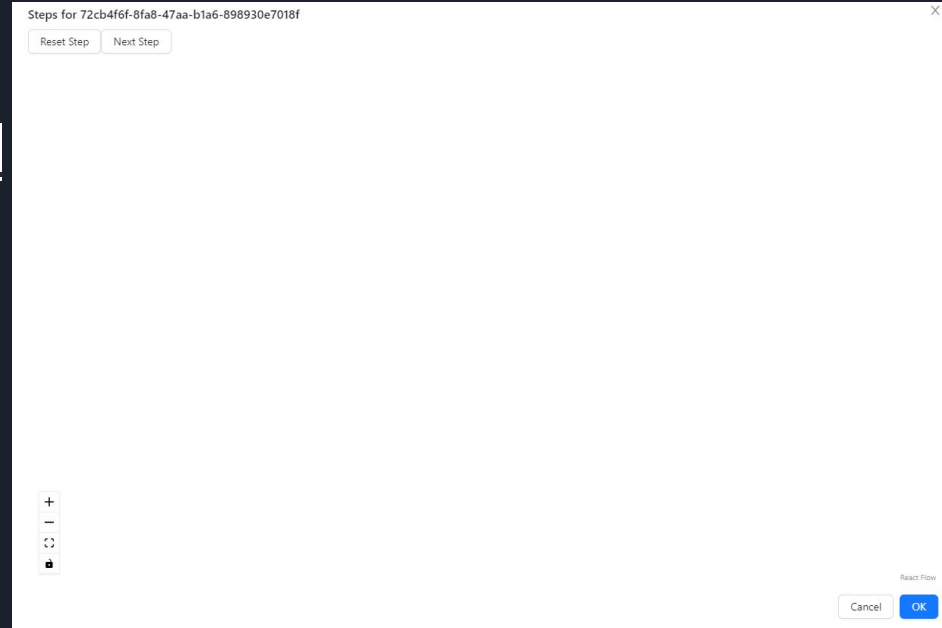
[FR21] Each sequence node should visually have a menu item to configure the steps and subsequences of that sequence

[BR1][HIGH]



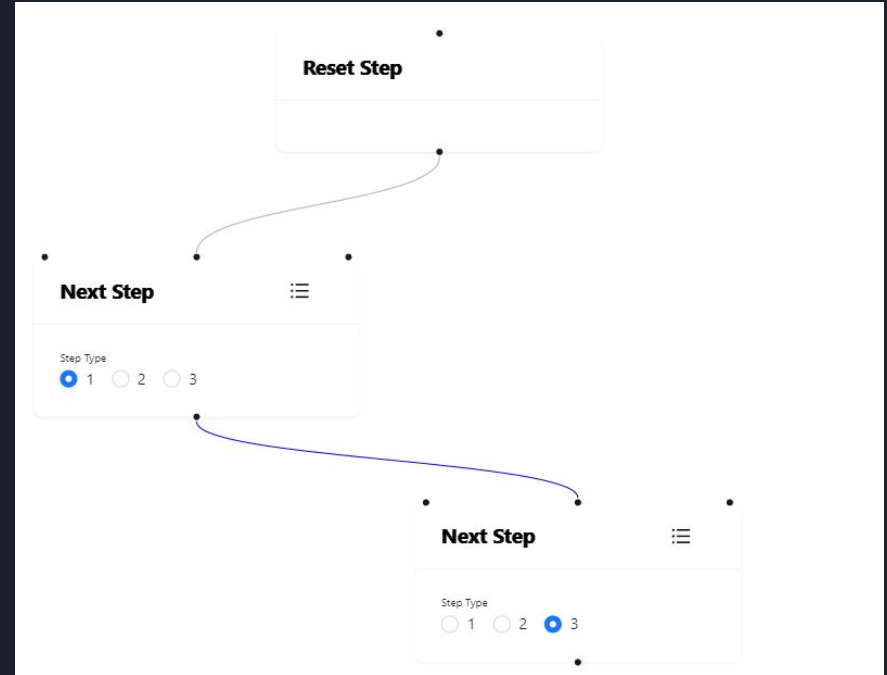
FR22: Steps/Subsequences Workspace

[FR22] Upon clicking the
"configure steps" menu item, a
modal will open containing the
workspace for that specific
sequence [BR1][HIGH]



FR24: Steps/Subsequences Chain

[FR24] Each step has a pointer
to another step or sequence
[BR1][HIGH]



FR26: Color of Main Nodes

[FR26] The control modules/sequences will be distinguished from each other through colors [BR2][MEDIUM]

The image displays two side-by-side UI forms, each with a header bar and a main content area. The top form has a red header bar with the title 'Sequence' and a small icon. Below the header, there is a 'Sequence Type' label followed by a dropdown menu with the text 'Select a sequence type'. Below that is a 'Sequence' label and a small red square icon. The bottom form has a dark red header bar with the title 'Control Module' and a small icon. Below the header, there is a 'Control Module Type' label followed by a dropdown menu with the text 'Select a control module type'. Below that is a 'Control Module' label and a small dark red square icon. Both forms are set against a light gray background.

Form Title	Header Color	Form Color	Icon Color
Sequence	Red	Red	Red
Control Module	Dark Red	Dark Red	Dark Red

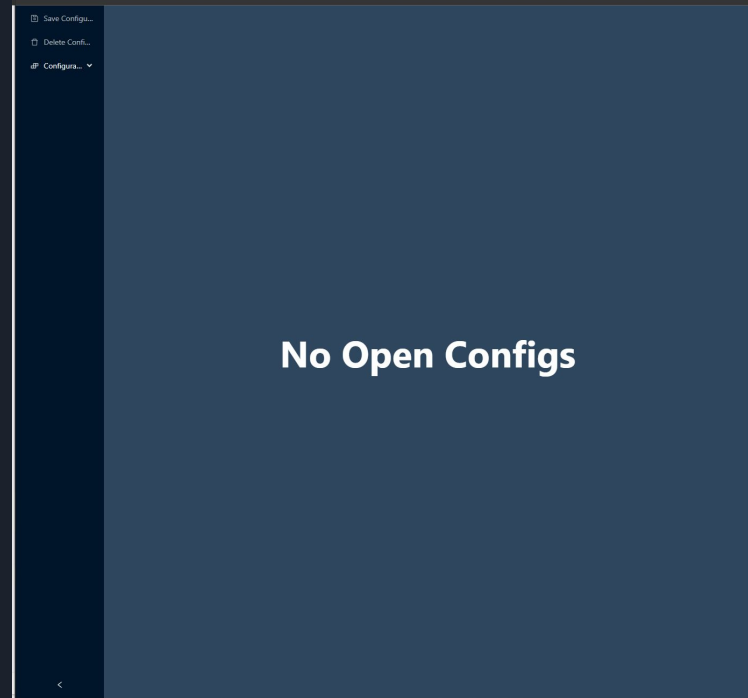
FR33: Main Node Renaming

[FR33] A user should be able to rename sequences and control modules [BR2][MEDIUM]



FR34: Start of App/No Open Configs Visual

[FR34] A user should see a front page visual at the start of the application showing them that no configurations are open[BR2][MEDIUM]

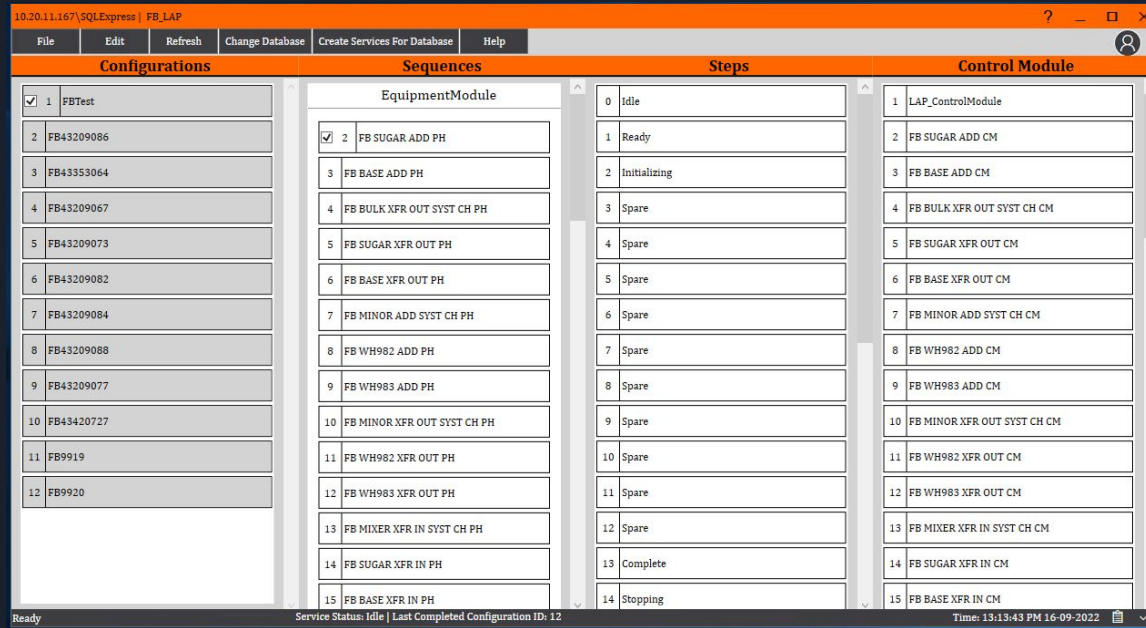




Planned Iteration 5 Features

- [FR23] In the step configuration workspace, there will be a conditional block for every layer of it's parent sequence [BR1][HIGH]
- [FR25] User can access configurable settings through a menu on the step node[BR1][HIGH]
- [FR29] Upon a user changing a sequences type, all invalid connections' respective lines will turn red to show that the connection is now invalid [BR2][HIGH]
- [FR35] Each step's configuration menu should edit the connection lines of the node it is contained within when a user changes relations inside of the configuration modal. [BR2][HIGH]
- [FR39] Step handles are added or removed based on the user selected step type[BR2][HIGH]
- [FR36] A user should be able to use a navigation bar at the top of the screen to access settings for the application.[BR2][HIGH]
- [FR37] A user should be able to change the database connection settings from the application itself[BR2][HIGH]
- [FR38] A user should be able to change the sequence and control module types from a settings page in the application[BR2][HIGH]
- [FR40] Each sequence/control module type should have a default color associated with it that the user can override[BR2][LOW]
- [FR41] Users should be able to add labels and colors to lines if they wish{BR2}[MEDIUM]

Benefit to Client



Before our product, the user was required to go through several complex and convoluted sub-menus in order to create one configuration. Our software provides the same functionality in a more visually digestible format. The user will no longer have to have anywhere near as much training in order to use the software.

Random Slide

When you fix one
error but fixing it
causes 100 more errors

