

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 a 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

- Tasks are distributed well
- Slow going on some tasks, work to complete more steadily

Pre-release

- Likes that more tasks got done
- Thinks we could've gotten done more features
- Asked about Login Page
 - Explained



Client Feedback

Feedback

- Step Configuration is good
- Wants a setting menu for adjusting default type colors (was planned)
- Browser Popups(amateur) vs Modals(professional)

Use of Software


- Bug fixes attempted just never got fixed and some odd interactions
- Needs more QOL features when they continue the project
- More logic features needed in general to be like the original, such as custom types

Iteration 5 Features




FR11: Login Menu

[FR11] The user shall be required to login before accessing the visual IDE. [BR1]
[LOW]#24

The logo consists of a circular arrangement of black dots of varying sizes, with the letters 'L A P' centered within the circle.

Username:

Password: 

[Sign in](#)

FR23: Parent Sequence Conditional Block

[FR23] In the step configuration workspace, there will be a conditional block for every layer of it's parent sequence
[BR1][HIGH]#33

The screenshot displays a 'Conditions' configuration window. It features two main sections, each with a black header bar. The first section, 'Condition Group 1', has a green square icon and shows 'Type: 2' and 'Next Step:' with a dropdown menu. It contains two columns of conditions: 'Condition A' and 'Condition B'. Each condition has fields for 'SubSequence' (dropdown), 'SetPoint' (text input), 'Operator' (dropdown), and 'Time' (text input). The second section, 'Condition Group 2', has a blue square icon and shows 'Type: 2' and 'Next Step:' with a dropdown menu. It contains three columns of conditions: 'Condition A', 'Condition B', and 'Condition C'. Each condition has the same fields as the first group. The 'Parameter Details' section on the right of each header bar shows three radio buttons, with the second one selected in Group 1 and the third one selected in Group 2.

FR36: Navbar for Settings

[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]#48





FR37: Change Database Connection

[FR37] A user should be able to
change the database
connection settings from the
application
itself[BR2][HIGH]#49

Settings

Database Connection Settings

* Database User: postgres

* Database Password:

* Database Name: LAP_PG

* Database Host: localhost

* Database Port: 5432

Save

FR39: Step Handles

[FR39] Step handles are added
or removed based on the user
selected step
type[BR2][HIGH]#51

Next Step

Step Type

☒ 1 ☐ 2 ☐ 3

FR40: Default Type Colors

[FR40] Each sequence/control module type should have a default color associated with it that the user can override[BR2][LOW]#52

Sequence Type

Select a sequence type ▾

- Control Module
- Phase
- Operation
- Procedure

Sequence

Sequence Type

Select a sequence type ▾

Sequence

Sequence

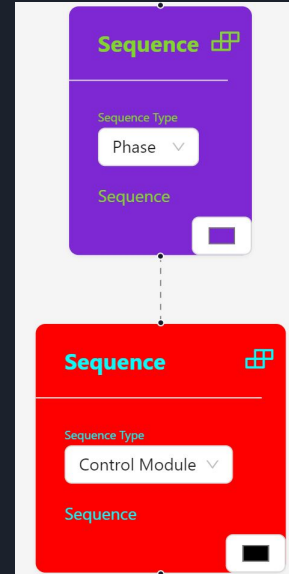
Sequence Type

Control Module ▾

Sequence

FR41: Labels and Colors for Lines

[FR41] Users should be able to
add labels and colors to lines if
they wish{BR2}[MEDIUM]#53



localhost:3000 says

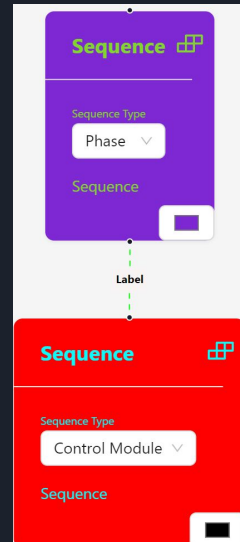
Enter the new label for the edge

OK Cancel

localhost:3000 says

Enter the new color for the edge

OK Cancel



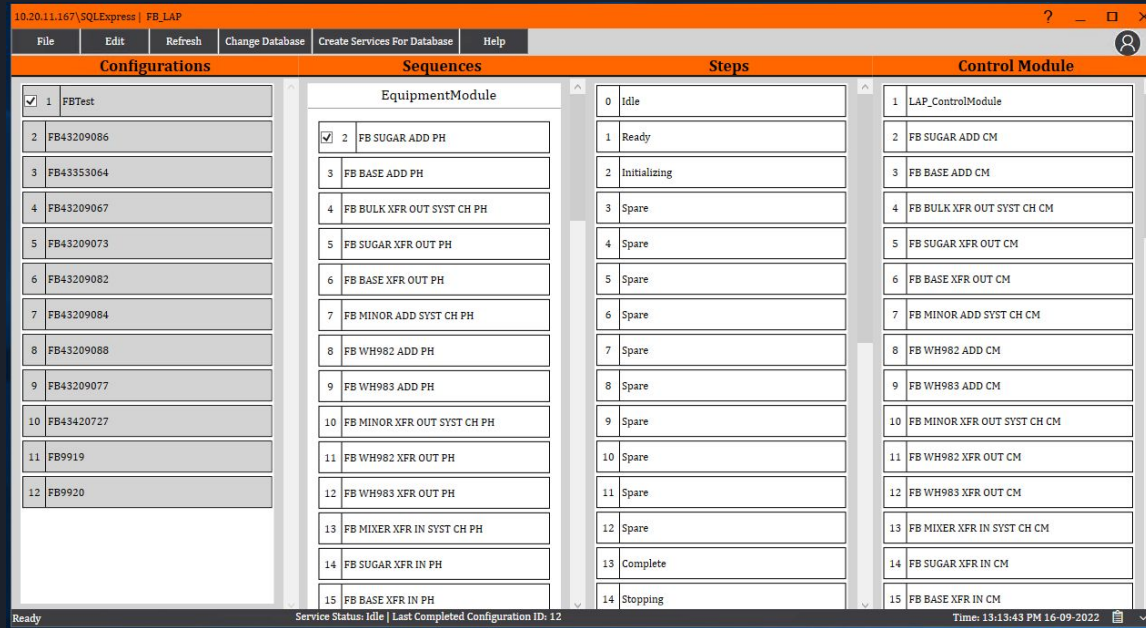
FR44: Renaming of Steps

[FR44] Users should be able to rename steps to what they desire.[BR2][HIGH]#54

The image displays three sequential mockups of a user interface for renaming steps, arranged vertically. Each mockup is a white card with a light gray border and a small black dot in the top right corner.

- Top Mockup:** The title "Next Step" is in bold black text at the top left, with a hamburger menu icon (three horizontal lines) at the top right. Below the title, the text "Step Type" is followed by three radio buttons labeled "1", "2", and "3". The "1" radio button is selected, indicated by a blue dot.
- Middle Mockup:** A text input field with a blue border contains the text "Name Change". Below the input field, the text "Step Type" is followed by three radio buttons labeled "1", "2", and "3". The "1" radio button is selected, indicated by a blue dot.
- Bottom Mockup:** The title "Name Change" is in bold black text at the top left, with a vertical ellipsis menu icon (three dots) at the top right. Below the title, the text "Step Type" is followed by three radio buttons labeled "1", "2", and "3". The "1" radio button is selected, indicated by a blue dot.

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 explain what
PLC programming is to
your family and they
still don't get it

