

Notes:
-Database: SQLite3:
database that is local/reliable
-Diagrams not to scale
-will probably not implement all this.

Possible TODO:
- add Routes
- add Database Variables
-particular buttons might be missing due to
features not fully being fleshed out

Key:
* - indicate use case

HyperRail Admin (full wireframe-subject to change- based on creation-plan.)

1. Data Display

2. Path Planning Programs

6. Show current positioning

1.

***Data Display Page use case:**
Used for doing individual movements and monitoring the sensor data. Mainly used for testing.

Individual movement commands

x: {x}

y: {y}

submit

x: {x-axis} y: {y-axis} current positions

Indication that action has been completed

submitting x and y coordinates
possibly disable submit button when
gantry is moving or recording other
land plots.

This area gives feedback when
cooridinates are reached, in
progress, possible error indication.

TBD: recent picture or NVDI data

Show most recent Picture taken or NDVI
(can taken from local file)

current Sensor Data:

CO2: {Co2}
Temp: {Celsius}
Moisture: {g/m³?}

2.

***Path planning Page use case:**
Creates, Edit, Add programs. These programs move the end effector to each waypoint indicated. It will have an action the

1. Data Display

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Button: adding
program to list

for a current program,
possibly have a button
that allows the data to
be download for each
run.

Programs

Programs

Name	Total Runs	Last Run	Actions
Program 1	0	never	Edit Archive Destroy
Program 2	0	2021-10-27	Edit Archive Destroy

-Show a list of the programs and possibly allow user to
possible download files or the user might go to the
directories to find get data files

Button: edit button to
edit path

3. Edit path program page

1. Data Display

2. Path Planning

6. show current

		← 3	↖ 2
			↑ 1

For each
coordinate,
there will
be an
action
setup for
each
sensor
reading

Actions
are
reading
data from
sensors,
pictures

Find a way to implement editing a path. Possibly for now,
we can possible just have a string of coordinates. that we put in.

5. Create path program page

1. Data Display

2. Path Planning Programs

6. show current positioning

		← 3	↖ 2
			↑ 1

For each
coordinate,
there will
be an
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setup for
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Actions
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sensors,
pictures

Find a way to implement creating a path. For now,
we can we have a input for coordinates

Current positioning and status

X: {x-axis}
Y: {y-axis}
System info:
(System info: Build info, voltage / current , PCB / system OS?)

6.

***show current positioning - shows the x,y positioning and current status system info that is to be determined.**

