**Project Requirements**

**Application Background:**

* Users can upload a jpg image from “Upload Image” and make drawings over the uploaded image.
* Users can Select/Add a Zone to the uploaded image.
* Users can Select/Add a Cable to the uploaded image.
* Users can make drawings from the features available on the left-hand side menu. Example: Draw Polygon, star, etc.
* Once the drawing is complete, users can Save the Image/drawings in Geojson file format.
* If the users need to make any update to the saved drawing, they can upload the saved Geojson file from “Upload Geojson File” button.
* Once the saved file shows up in the application, user is able to apply updates to it.

**Notes:**

* The feature for Saving the drawings and Editing them can be referenced from <http://geojson.io/>. Open source code is available at - <https://github.com/mapbox/geojson.io>
* For a walkthrough on the Application, it is available at - [https://gls.databin.in/gls.html#](https://gls.databin.in/gls.html)
* Existing Code is available at - <https://github.com/jaffnike2000/jaffnike2000/tree/main/openLayer_editor> (It’s a Private repository and can be shared only when I allow it)

**Work To be Done**

**Requirement#1:**

**Add Zone(s) Over the Map:**

* Select a Zone from the Zone drop down menu.
* Click on “Add” button and below should happen on the page:

1. Shaded rectangle in default size shows up over the image. (Working)
2. The size of rectangle can be increased/decreased by dragging. (Working)
3. The shaded rectangle must display the Zone name selected from the drop-down menu. (Working)
4. The shaded rectangle can be moved/dragged within the frame. (Working)
5. The shaded rectangle should not be dropped again for the same zone once it exists over the image. It should throw an error message on screen. (Working)
6. Once the shaded rectangle is deleted for the selected Zone from “Delete” button, the shaded rectangle can be re-dropped for the same Zone. (Not Working)
7. Shaded rectangles can be dropped over the image for the Multiple zones, but the overlapping of shaded rectangles is not allowed. (Not Working)

**Requirement#2:**

**Add Cable(s) Over the Map:**

* Select a Cable from the Cables drop down menu.
* Click on “Add” button and below should happen on the page:

1. Dotted line shows up over the image. (Working)
2. Number of dots for the selected cable needs to be dynamic and it will be based on the number of dots allowed for the Cable size. (Logic Available in the code at Line# 279) (Not Working)
3. The Line must display the Cable name selected from the drop-down menu. (Not Working)
4. On hovering over the dot(s), each dot shows a tooltip with the actual size of Cable. (Not Working)
5. The line should not be dropped again for the same Cable once it exists over the image. It should throw an error message on screen. (Not Working)
6. Once the Line is deleted for the selected Cable from “Delete” button, the line can be re-dropped for the same Cable. (Not Working)
7. Lines can be dropped over the image for the Multiple Cables, but the overlapping of Lines is not allowed. (Not Working)
8. Every dot should have the ability to show blinks in red color if any alert (alert will be dynamically passed to it through our main code) is passed to it. (Not Working)

**Requirement#3:**

**Save Drawn Image:**

* Images are drawn over the map following steps from Requirement#1 and Requirement#2.
* Click on Save button and below should happen:

1. Geojson file saves. (Not Working)

**Requirement#4:**

Editing a Saved Image following the steps from Requirement#1, Requirement#2 and Requirement#3:

* Click on Open button and open up the saved file.

1. Everything drawn over the map from previous steps is visible and should be editable. (Not Working)

**Requirement#5:**

Scaling option on the Editor Page Menu. (New Feature)

* Add a new “Scaling” button on the left-hand side menu.
* On clicking the scale button below modal should pop up:

Graphical user interface, application

Description automatically generated

* Enter any integer value in distance and click on ok button.
* Select “Feet” or “Meter” from another dropdown.
* A line appears on the map with the entered Distance value and the selected unit of measurement. The line would look like below as shown with 30 Feet:

Diagram

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**Notes (Must have):**

* The scripts **Must** pick the Zone and Cable from the HTML file only.
* Above features **Must** be responsive i.e., it should be working in both web page and touch screen mobile app.
* Any script that is added, **MUST** use the Offline script. The device on which this application has to run will have no internet connection.
* Existing application is using HTML and JavaScript with OpenLayer libraries.
* Must be available to work immediately and finish the work within a day.

Remaining Work:

* 1. **Overlap check on Cable**.
  2. ~~Not able to release cable once dragged by following these steps – “Add Cable. Click on Move button on left menu and then select cable. Drag the cable.”~~
  3. User should not be able to save the image if there is an overlap on the zone or the cable.
  4. Cable needs to have a single cable name.
  5. Issue with releasing zone when following these different steps –
* “Once I add a zone and then add a cable. If I click on pointer and then select the zone, and then click on Move button, I can move it but not able to release the zone.”
* “Once you add a zone and then add a cable. Then if you click on zone then you are not able to release it.”
  1. Flash alerts on Cable dots need to be read from the html file tag – “<input type="text" id="blinkdetails" value="zone1#cable1#20" />”