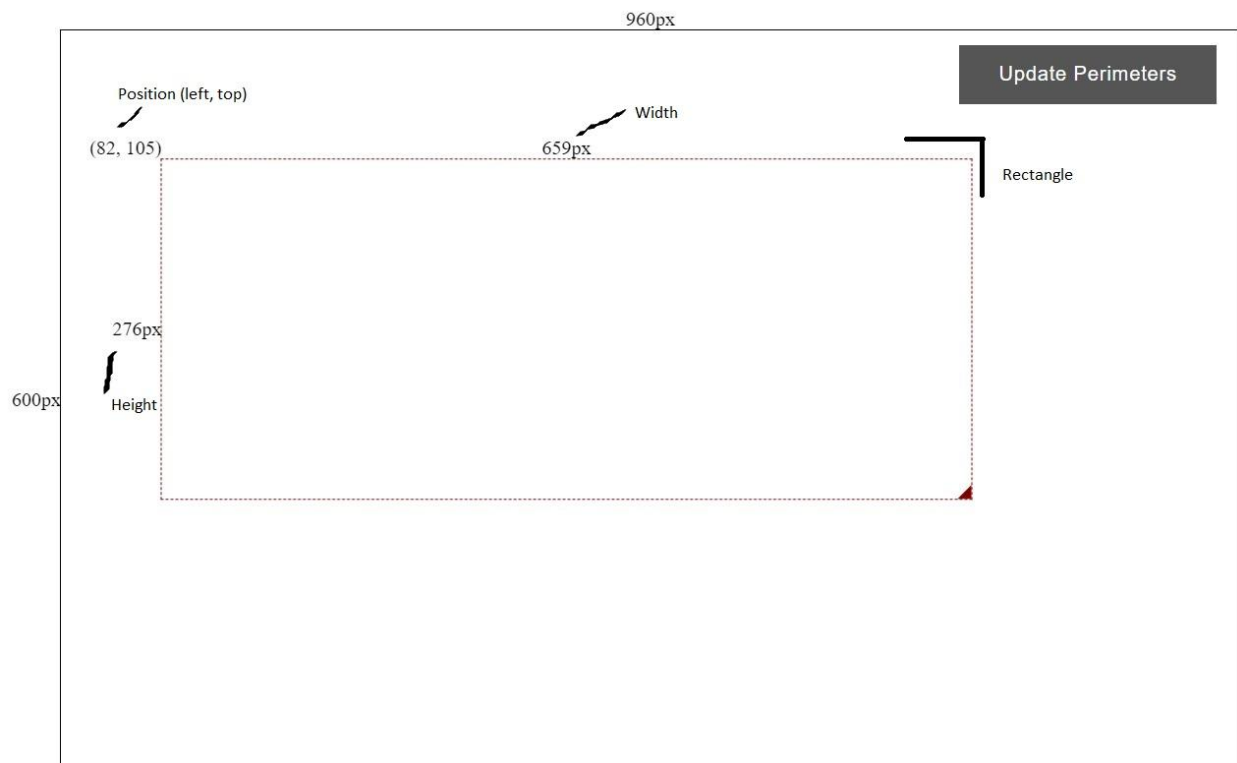**Developer:** Md. Akter Hossain

Task Solution

The initial solution was creating a web page for drawing svg figures of a rectangle along with the display of all necessary perimeters.
Below (fig. 1), is the task where the Rectangle figure has been drawn with provided width and height values. Also, positions perimeters are assigned by left and top values. Moreover, there is a button for updated modified parameters along with the position of the svg figure.

Figure: 1

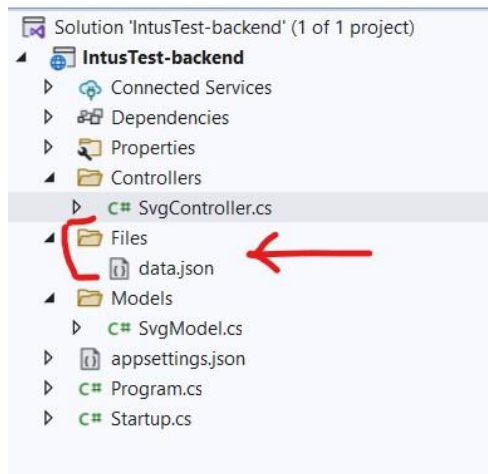There are Four requirements are given for the task. I'll describe each of them in detail below.

1st Requirement:
The initial dimensions of the SVG figure needs to be taken from a JSON file.

In the backend project (IntusTest-backend) file: There is **data.json** file which is used for storing perimeters for our SVG Rectangle figure (fig. 2).
In total, four perimeters are assigned, two for the size of the rectangle and other two are used for positioning values.

When the system run, initially rectangle perimeters are taken from the JSON file (see fig. 2), e.g., {"Width":659,"Height":276,"Left":82,"Top":105}
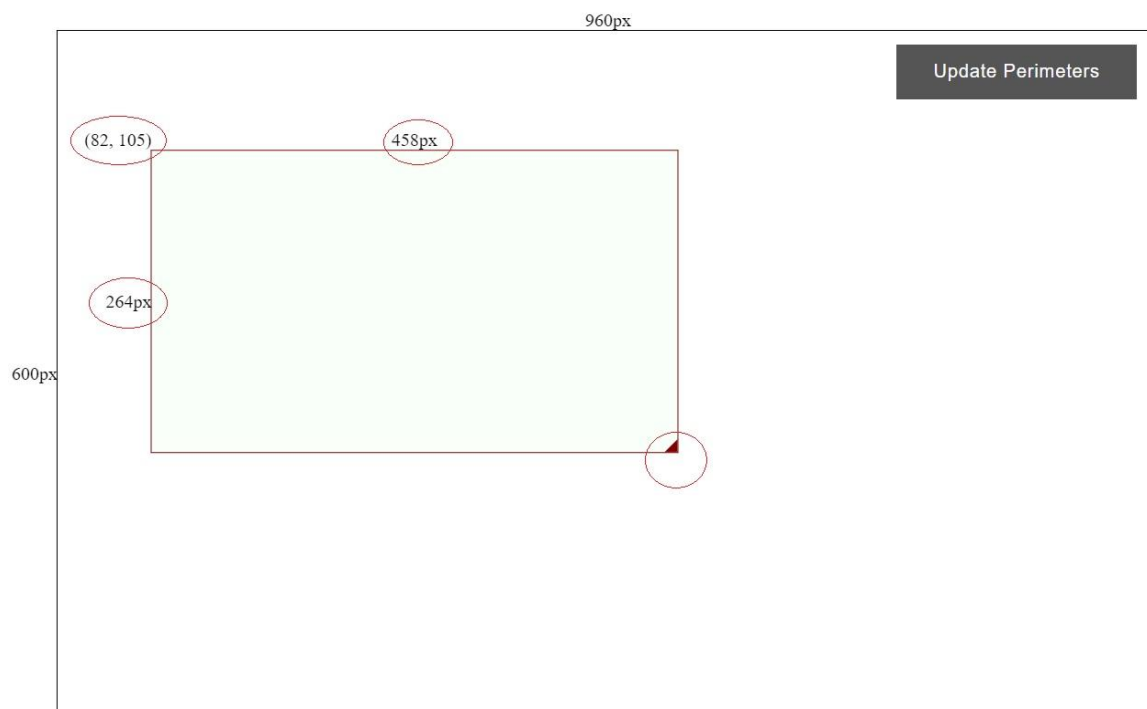

Figure: 2

2nd Requirement:
The user should be able to resize the figure by mouse.

In fig. 3, if you watch closely the red circles, it has the ability to resize and instantly the required parameters will also effect. However, until the "Update Perimeters" button has clicked, it'll not update the target json file (see fig. 2).

Figure: 3

3rd Requirement:

Near to the figure display the perimeter of the figure.

See Fig. 3, all the necessary perimeters are shown closely with the svg figure.

4th Requirement:

After resizing, the system must update the JSON file with new dimensions.

As I mentioned before at requirement 2, when the update button has clicked, it will update edited values into the JSON file (see fig. 4)

Figure: 4

Now, if we reload the web page, the Rectangle SVG will take shape with the last modified parameters along with positions.