Choose your best example of your skills

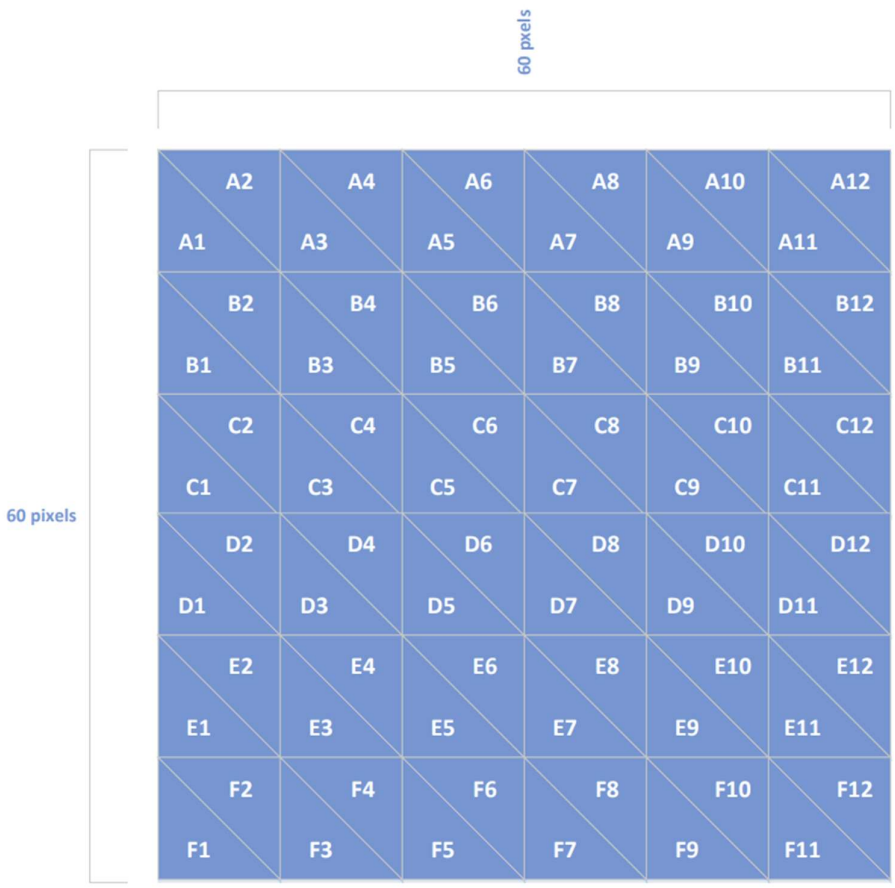
Your sample should be developed as a C# Web Api endpoint with an optional JavaScript front end and should be posted to GitHub for review. The submission should include any steps required to build and run the solution as it will be run as part of our review. Please provide your recruiter with the link for the source code once complete.

Please bear in mind the following aspects/concepts while you work on a solution:

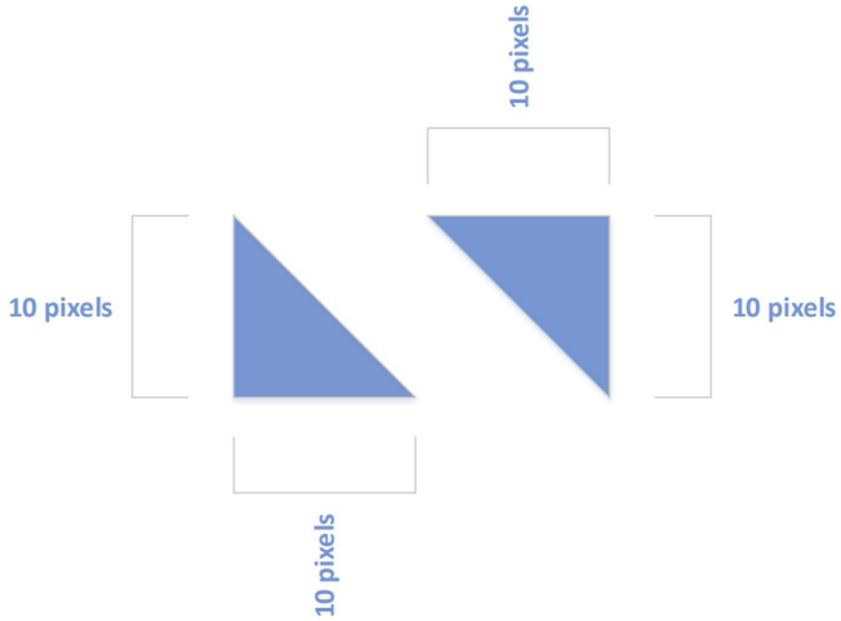
- Design your algorithm carefully, as it is essential to the review.
- CleanCode, especially the readability of the code
- SOLID design principle
- TDD
- Ensure you have a working Backend if there is not enough time to complete everything.

Geometric layouts

1.A - The task, calculate the triangle coordinates for an image with right triangles such that for a given row (A-F) and column (1-12) you can produce the coordinate for any of the triangles in the layout below:



Each non-hypotenuse side of the triangle is as follows:



1.B - Lastly, given the vertex coordinates, calculate the row and column for the triangle: