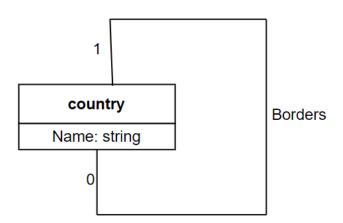
IT-313 (lab-4) Praneel Vania 202201131

Q1



Multiplicity Explanation:

Polygon to Point: A polygon is composed of at least 3 points (indicated by the 1..* cardinality).

A point can be part of multiple polygons, representing a many-to-many relationship.

Ordered Points: The connection between Polygon and Point is sequential, meaning the arrangement of the points is important in defining the shape.

Minimum Number of Points:

A polygon requires a minimum of 3 points to form, as at least three vertices are needed to create a closed shape (a triangle).

Shared Points Between Polygons:

Yes, points can be shared between polygons (e.g., adjacent polygons in a mesh or grid may share vertices). While this doesn't compromise the polygon's validity, it can influence the exact shape depending on how the points are shared and arranged.

