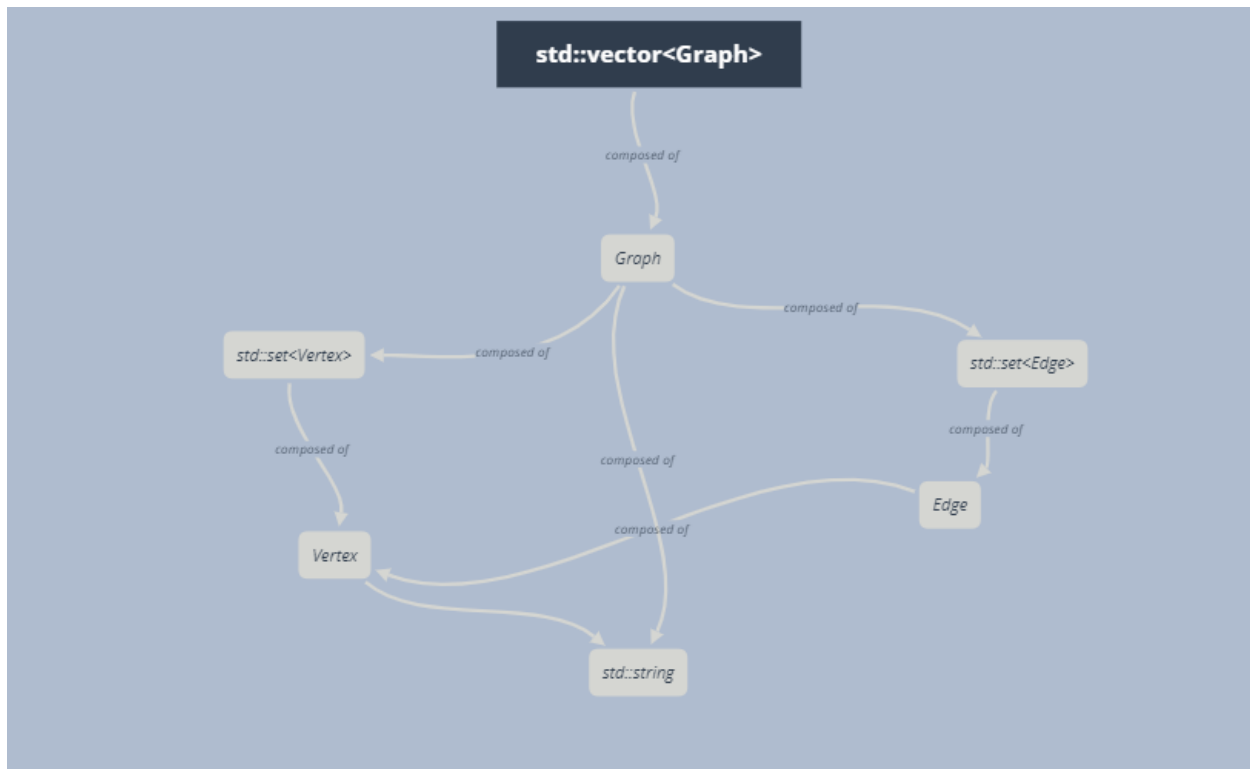


Classes Diagram:



Design Description:

std::vector<Graph>: a vector of elements of type `Graph`, each element represents a single graph

Graph: a class that contains 3 private fields:

`std::set<Vertex> vertices`: a set of elements of type `Vertex`, each element representing a vertex in the graph

`std::set<Edge> edges`: a set of elements of type `Edge`, each element representing an edge in the graph

`std::string name`: a string that represents the name of the graph

a single element of type `Graph` represents a graph

Edge: a class that contains 2 private fields:

`Vertex source`: this field represents the vertex that the edge exits from

`Vertex destination`: this field represents the vertex that the edge goes into

A single element of type Edge represents an edge

Vertex: a class that contains 1 private field:

`std::string name`: this field represents the name of the vertex

Each element represents a vertex