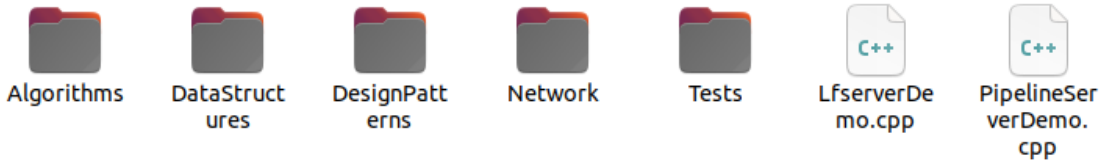
Project Strucure:

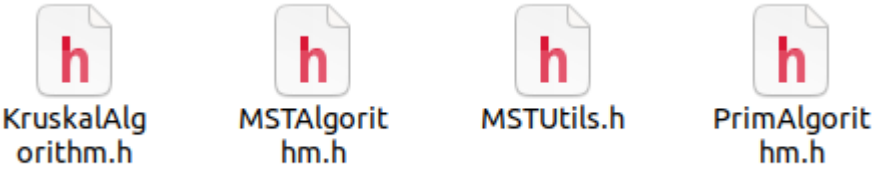


Inside every directory, you will find two additional directories:

* **include:** Contains the relevant .h files**.**
* **src-** Contains the relevant implementations of the .h declarations, i.e., .cpp files.

Directories details:

Algorithms : Contains the algorithms used in the project. Inside this directory, you will find the following:

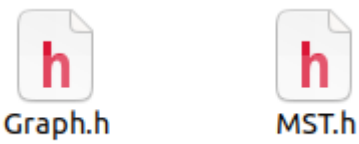


* **MSTAlgorithm**: An interface to define an MST algorithm for a graph, to be used with the strategy pattern.

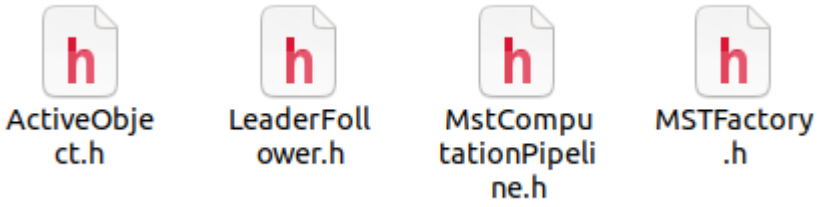
* **Krusal/Prim Algorithm -**Concrete strategies for finding the minimum spanning tree (MST) of a graph.

* **MstUtils -**A Static class with methods to execute operations on a given MST. These methods implement the computations required for the project.

DataStructures : Contains the implementation of the data structures used in the project, namely MST and Graph.



DesignPatterns: the design patterns used in the project



* **ActiveObject.h:** Implements the Active Object design pattern, used within the computation pipeline**.**
* **LeaderFollower.h:** Implements the Leader-Follower design pattern for managing concurrent tasks related to mst**.**
* **MstComputationPipeline.h:** Defines the pipeline for computing the required data on the mst
* **MSTFactory.h**: Implements a factory for creating MST algorithms.