# Requirements and High Level Design (HLD) Document

The document will specify the requirements and the high level design of the architecture for our link state routing simulator.
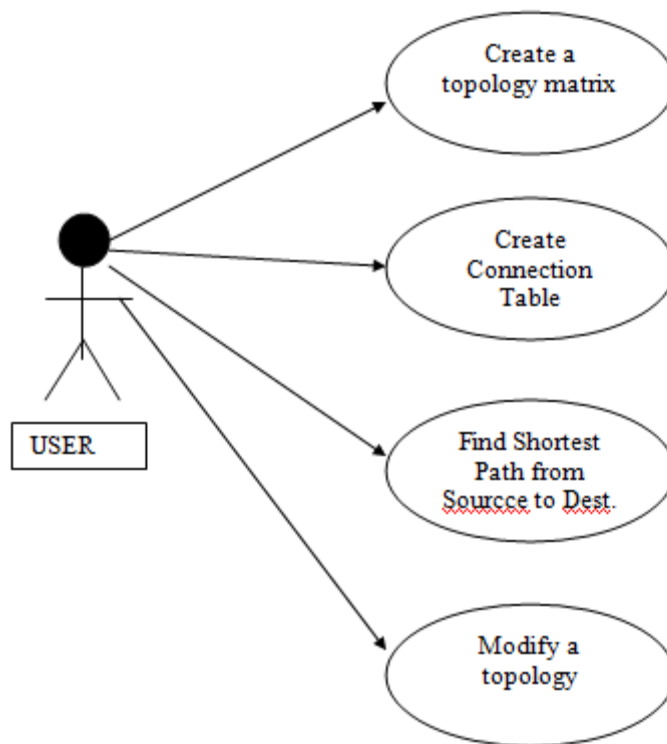
## 1.1 Introduction
This user case diagram is an example of our Link State routing simulator. It shows the components of the application between the simulator and the user.

## 1.2 Requirements
1. Full GUI (Graphical User Interface) implementation
2. Minimum initial number of nodes: 8
3. Create a connection table of each node as default and display all
4. If there are more than one shortest paths available, find all from a source node to a destination node

**Definition of Objects:**



## 1.3 Desired Behavior
After uploading an network topology, the user can find the connection table which will display the links that each router can take to reach next router. Users can find the shortest path between source to destination.