Participants:

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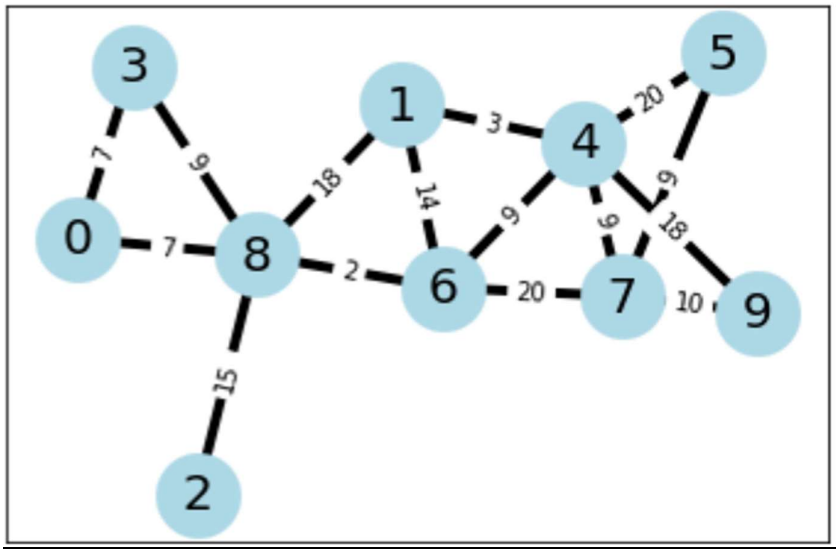
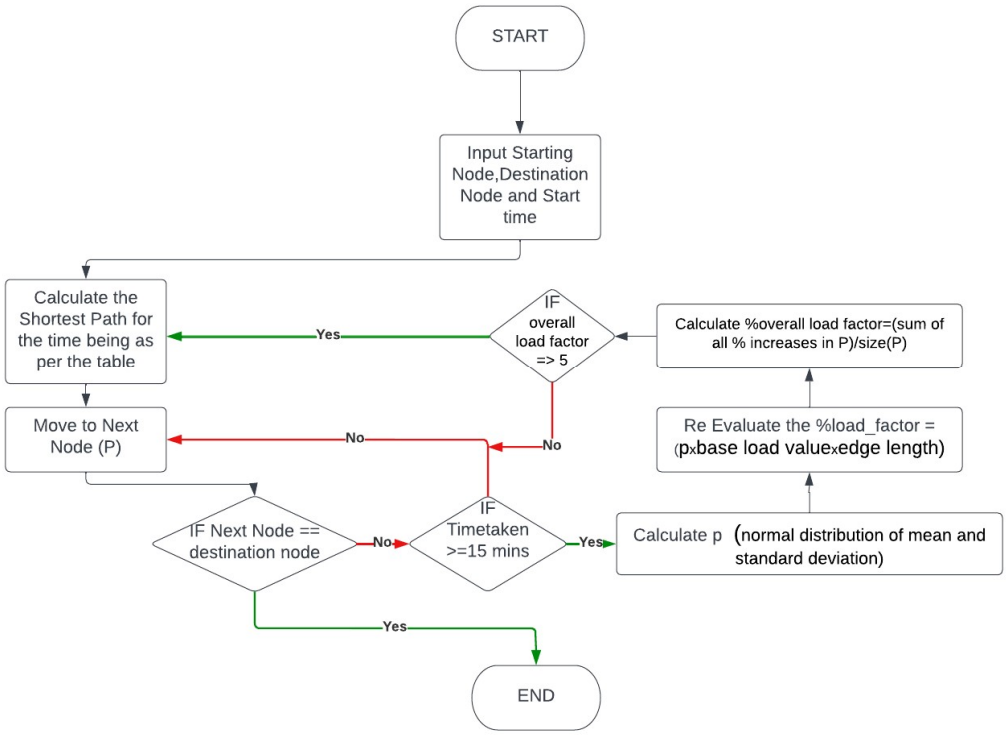
Example:



Pseudo code:

1. V = Initialise (Graph, Vertices);
2. S, D, T = Initialise (Start node, Destination node, start time);
3. Queue Q = [all the Vertices in the V];
4. SP {} = shortest_path_nodes (S, D) /*Example shortest path from 2,8 in example {2,8,6,4} initially */
5. P = SP [0]
6. IT (initial time) = T
7. For (P is not NULL):
8. IF (P is not equals to D):
9. P= SP [1]
10. Drop (SP [0] FROM SP)
11. Get new time Current T
12. IF (T >= IT+15):
13. p = norm (mu, std)
14. Load_factor = p * baseload * edge_length] /* Calculate the load factor*/
15. Overall load = (sum of all % increases in P)/size(P)
16. IF (Overall load >= 5):
17. Queue Q = [Re adjust the weights]
18. ELSE :
19. Go with the current Q values i.e. do not re adjust the weights

Flow Chart:


START
Input Starting Node,Destination Node and Start time
Calculate the Shortest Path for the time being as per the table
IF overall load factor => 5
Yes
Calculate %overall load factor=(sum of all % increases in P)/size(P)
Move to Next Node (P)
No
No
Re Evaluate the %load_factor = (pxbase load valuexedge length)
IF Next Node == destination node
No
IF Timetaken >=15 mins
Yes
Calculate p (normal distribution of mean and standard deviation)
Yes
END