

**ASSIGNMENT – 3:**  
Problem Statement  
Finalization

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## **Problem Statement:**

Problems faced by a person travelling from one place to another. They all include:

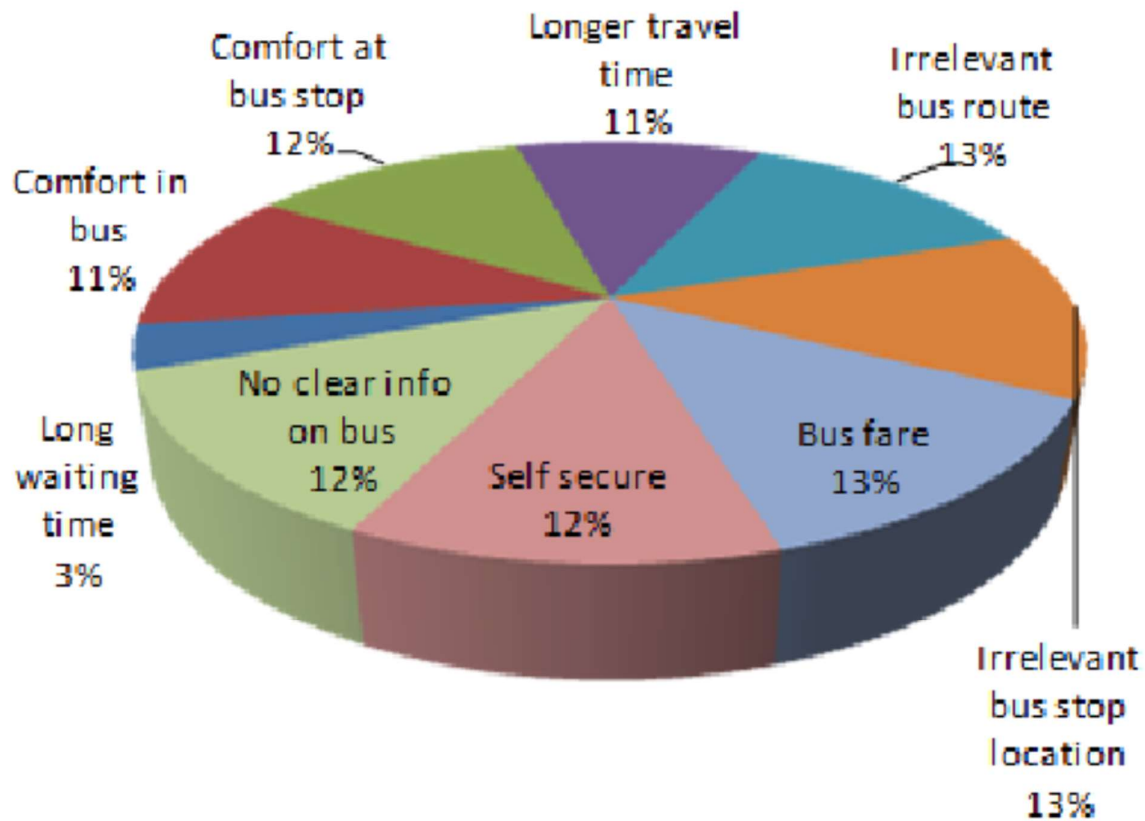
- Needing to look into Google Maps (Online – Network is required)
- Crowd in the vehicle
- Tracking next stop
- Language Issues
- Having the exact amount of change
- Security in the vehicle
- Comfort in the vehicle

One has to have proper internet connectivity. The Google maps shows the wrong location of the destination sometimes. The arrow mark, which shows your current location, sometimes gets ahead or behind where we currently are, so it gets confusing where to get down.

Managing the crowd In the buses is difficult when the busses are not punctual, which also makes the waiting time longer

Most of the time, the conductors in the bus announce in their regional language which causes issues for non-local travellers.

## Problem faced when travel by bus



## Possible Solutions:

- Most of the time, the conductors shout in a language, which is not helpful for hearing-impaired people. Hence, a board can be set up showing the stop names. As well as setting up a speaker would help visually-impaired people.

- Implementing UPI transactions in the buses would help cashless payments and there would not be any need for having right amount of change with a person all the time while travelling.
- Implementing a system where a stop corresponds to a number and then when the stop is reached, the number gets highlighted and called upon along with the name. This helps in better routing and convenience.
- The bus conductors can also implement minimum of 3 languages for calling out the stop names, say English, Hindi and the regional language itself. This would cover the needs of top 95% of the people.