

## Customer/user journey map

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|---------------|---|
| Date          | 08 October 2022   |
| Team ID       | PNT2022TMID23978  |
| Project Name  | Project – Signs with smart connectivity for better road safety. |
| Maximum Marks | 4 Marks   |

### Template:

| User journey  |   |  |   | Project 2.0   |  | Time 2.0  |  | Difficulty 2.0   |   |  |                                     |  |
|---|---|--|---|---|--|---|--|--|---|--|-------------------------------------|--|
| Creating a user journey is a quick way to help you and your team get a deeper understanding of what people designing for, also the stakeholders in your project. The information you add here should be representative of the observations and research you've done about your users. |   |  |   |   |  |   |  |  |   |  |                                     |  |
| Phases  | The users must have the conscious about the traffic signs.  |  |   | The NFC tag would be compulsorily placed in all vehicles.   |  |   | Use Heart beat sensor to detect the driver status.   |  | To reduce the accidents it is important to manage the vehicles properly.  |  |                                     |  |
| Steps   | The drivers must have the driving license.  | Knowledge of traffic rules and regulations.  | Develop the right attitude about driving.   | Identify and tracking using radio waves.  | Install speed governor device.   | Use NFC tags to communicate with active NFC devices.  | Use ultrasonic sensor to detect the object distance.   | Using LCD display,Traffic congestion are displayed.  | GPS sensors placed in the vehicles.   | Drivers should maintain the vehicles in proper condition.  | To maintain oil and coolant levels. | Warning light that reminds drivers that their vehicle needs a service. |
| Feelings  | <div>😊</div> <div>😞</div> <div>NFC technology brings more benefits.</div> <div>Main cause of accidents and crashes are due to human errors.</div> | <div>To avoid accidents and keep the passengers safe.</div> <div>There will be occur violation charges.</div> <div>Fatalities occurring has attained its peak with more death rates.</div> | <div>This technology improves road conditions in pit area.</div> <div>Vehicle accidents leads to financial problems.</div> <div>Direct consequences of accidents like injury and property damage.</div> | <div>To provide more efficient travel.</div> <div>Huge economic losses because of slow transportation.</div> <div>Roads are inadequate and bad.</div> | <div>More strategic traffic management.</div> <div>Traffic congestions ,which make lost a lot of time</div> <div>Due to poor lighting there will be occur accidents.</div> | <div>To provide Accident free techniques.</div> <div>Emotional injuries and medical costs.</div> <div>Due to wrong indication of traffic signs.</div> | <div>Less risk of damage.</div> <div>This technique provides flexible service.</div> <div>There can be traffic delays and breakdowns.</div> <div>Many check points will be irritate for drivers.</div> | <div>Prevent accidents and injuries</div> <div>Toll charges are high.</div> <div>Bad weather conditions affects the driving.</div> <div>Road signs are ignored because of their mentality.</div> | <div>Provide better traffic signs.</div> <div>Speed limits are detected early.</div> <div>Increase traffic can increase carbon emissions.</div> <div>Severity of air pollution.</div> | <div>Cheapest and most profitable.</div> <div>Major causes of environmental factor and mechanical factor.</div> <div>Crowded at rush hours.</div> <div>Lack of coordination.</div> |                                     |  |
| Pain points   | Fatalities occurring has attained its peak with more death rates.   | The volume of traffic and passengers are very large.   | Direct consequences of accidents like injury and property damage.   | Roads are inadequate and bad.   | Due to poor lighting there will be occur accidents.  | Due to wrong indication of traffic signs.   | Many check points will be irritate for drivers.  | Bad weather conditions affects the driving.  | Road signs are ignored because of their mentality.  | Increase traffic can increase carbon emissions.  | Severity of air pollution.          | Lack of coordination.  |
| Opportunities   | To provide the latest NFC technique.  | Reduce the vehicles speed.   | Avoid the accidental death rate.  | NFC is a low cost way to connect android.   | Provides data transfer that allows smartphones.  | NFC enabled card payments are more secure.  | Improve the road safety measures.  | NFC tags are available in affordable prices.   | Goods for location tracking and identity verification.  | Tags have a long lifespan.   | Drain is going to be very less.     | This NFC provides the best service to the drivers.                     |