

Project design phase-1

IDEATION AND PROPOSED SOLUTION

Toll Tax, often known as a toll, is a fee that vehicle drivers must pay while crossing certain interstate expressways, tunnels, bridges, and other national and state roadways. These highways are known as toll roads and are managed by the National Highway Authority of India (NHAI).

SOLUTION ARCHITECTURE

- When the vehicle passes a roadside toll reader device, a radio signal from the reader triggers the transponder, which transmits back an identifying number which registers the vehicle's use of the road, and an electronic payment system charges the user the toll.
- A major advantage is the driver does not have to stop, reducing traffic delays.
- Electronic tolling is cheaper than a staffed toll booth, reducing transaction costs for government or private road owners.
- The ease of varying the amount of the toll makes it easy to implement road congestion pricing, including for high-occupancy lanes, toll lanes that bypass congestion, and city-wide congestion charges.

- The payment system usually requires users to sign up in advance and load money into a declining-balance account, which is debited each time they pass a toll point.

