

Provide a short one-page sketch/comic-strip/screenplay of your project concept. Provide complementary text as well.

YOUR AIM: CREATE A COMPELLING NARRATIVE

Application based Smart Parking System using CAN bus

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Project concept:-

Imagine going to a luxurious hotel or a restaurant and finding a spot to park your car !

How would be your experience if there is an enormous line ahead of you and after going through 2 or 3 floors, you don't find a parking spot. Wouldn't you be frustrated. It would also be shameful for the hotel or a restaurant to provide such a service to their customers. A smart and affordable solution for this problem would be to inform the guest about the parking spot available and direct them there. Our project solves this problem by providing this information to visitors. Also, the hotel or a restaurant can monitor the time when the guest came and they left, so that they can charge accordingly. Any overtime stay can be charged extra. Thus, this project will be beneficial for both, the visitor as well as the place owner.

We have witnessed a rapid growth in the Internet of Things and its contribution to the growth of smart cities in recent years. The increase in population and vehicular densities have led to the congested roads, inadequate parking facilities and poor infrastructure has called for a technology-driven solution known commonly as a Smart Parking System. This project will be a client-based parking slot reservation system that will be implemented using micro/controllers interfaced with the sensors

for parking vacancy detection. They can also be connected to cloud services in order to produce complete IoT solution. This will be a solution developed that caters to visitors in hotels or crowded places like grocery stores or shopping malls..The application can also use the GoogleMaps API to display the map and the current user location.