

# CHARGE POINT MOBILE APP

## Business case

1. Available charging stations basis the locations
2. Bookings in advance basis the time slots available

The bookings and any other information is then sent to the drivers for them to go to pre-designated bay on the charging station to get his car charged.

The charging can begin with a simple OTP process which can be fed into the systems at the charging station.

EV Charging Introduction = Charge Point Mobile App Challenge

Charge Point Introduction

### **Problem Statement 1**

Charge Point aims to create a mobile app that allows the Electrical Vehicle Drivers to charge on stations. The master app will give drivers the information about booking slots available, time schedule allotted and many more scenarios including integrated payment via Paytm, UPI or any other platform.

### **Problem Statement 2**

Whenever the driver selects Charge Point as their preferred destination, the driver gets a welcome message informing him about the parking bay details reserved for him along with the time schedule etc. It also takes into the consideration the car makers make and suggest the best bay available considering the filling nozzles be different and time taken will also vary owing to the battery make etc.

It will also allow the driver (if in case he has charger at his home/work space, to just charge for some points/duration which allows him to cover the distance for him to reach his home/work

The driver just puts a OTP to start the charging process and pays through the mobile wallet upon the completion of charging (Much like Ola and Uber)

### Problem Statement 3

Electrical Vehicles will eventually become the only source of transportation in future. Various vehicles will be charged throughout the day and week. Based on the 50 million charging data points (driver details, charging station details, charging details basis the car manufacturer etc), the proposed platform which can analyse the big data to predict the following

1. The max occupancy of any charging station basis the time, day, week based on the total network of a particular site.
2. Average Utilisation of a charging station site or the network
3. Analysis of the peak power drawn by the charging station on any day in any area

#### **We expect you to the following:-**

1. Anticipate all the problems that will arise and find technology solutions around them
2. Suggest the best technical framework and solve the integration with other apps and API`s
3. An Interface that allows station operators to register on their own and integrate with the aggregator app
4. Android and iOS app



ChargePoint brings electric vehicle (EV) charging to more people and places than ever before with the world's largest and most open EV charging network. We design, build and support all of the technology that powers this network, from charging station hardware to energy management software to a mobile app. Our work transforms transportation and energy use by helping more people choose to drive electric.