

**Project Design Phase-I**  
**Proposed Solution Template**

Date	19 September 2022
Team ID	PNT2022TMID17752
Project Name	A new hint to transportation – Analysis of the NYC bike share system.
Maximum Marks	2 Marks

**Proposed Solution Template:**

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	People are unaware of the system and effects during bad weather conditions, Bike demands during peak hours.
2.	Idea / Solution description	Analysing the bike usage, no of trips, and the usage based on customer and subscriber's gender and age categories
3.	Novelty / Uniqueness	Understanding ,Exploring by creating data visualization by prediction of bike utilization,demand. 1.Overcome the Problem of Empty bicycle stations 2. Popular times of travel a. most common month b. most common day of week c. most common hour of day 3. Popular stations and trip a. most common start station b. most common end station c. most common trip from start to end
4.	Social Impact / Customer Satisfaction	1. Reduced congestion and fuel consumption 2.Transport flexibility 3. Reductions to vehicle emissions 4. Health benefits 5. Financial savings for individuals.
5.	Business Model (Revenue Model)	Having an membership active pass makes the customer can rent bikes with amount packages based on time-constraints per weeks/days. Subscriber can rent bikes with amount packages based on time-constraints per month/year.
6.	Scalability of the Solution	can improve the productivity of citi-bike system, widespread of utilization according to the customer's demands.