Project Design Phase-II
Solution Requirements (Functional & Non-functional)

Date	03 October 2022
Team ID	PNT2022TMID02687
Project Name	A New Hint to Transportation-Analysis of the NYC Bike Share System
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form Registration through Gmail Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Collection of Data	NYC Citi-bike Data is collected in the form of Datasets. This data helps to do analysis and provide to the customer in visualized form.
FR-4	Analysis of Data	Preparaing , preprocessing the collected data.Modern day Algorithms are used to analyze the collected data.Descriptive,prescriptive,predictive analysis will be done on the collected data.
FR-5	Visualization of Data	Analysed Data will be represented in visualized form in the user Dashboard.So that the user will get a idea about the bike share system.

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The benefits of bike share system is financial savings for individuals,reduce global emissions. The interactive user dashboard helps to drill down and filter operational information so data can be viewed from different perspectives & in more detailed also.
NFR-2	**Security**	The data is well protected with appropriate caution We restricted access to the main dataset.But the user will be able to see the data from the given dataset in dashboard.
NFR-3	**Reliability**	This analysis makes use of the available dataset precisely and gives accurate data visualizations and

		it ai also an efficient and reliable way to grasp on the performance of the citi bike share system.
NFR-4	**Performance**	It is important to evaluate the conditions of the bike lanes and bikes in order to improve the operational efficiency of the bike share system.The effectiveness of the bike share system dashboard aims at analyzing the characteristics of bike stations and accessibility between bike stations and other facilities.The evaluation results can be used to improve the citi bike share system
NFR-5	**Availability**	A bike share system is a shared transport where individuals use our transport service for some time at a low cost or through memberships.Citi bike includes both docking and dockless system .Docking system allows users to borrow a bike from a dock and return at another dock.Dockless systems which offer a node free system relying on smart technology . Both formats can use smartphone web mapping to locate available bikes and docks.
NFR-6	**Scalability**	Citi bike share system provides resilient transport system .The application becomes more scalable as more data is fetched involving areas that are currently inaccesssible through this transport metholodt , as well as new cities apart from the new York. City