

## **Project Design Phase-II**

### **Data Flow Diagram & User Stories**

Date	19 October 2022
Team ID	PNT2022TMID45599
Project Name	Project – NYC Bike Share System
Maximum Marks	4 Marks

#### **Data Flow Diagrams:**

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system.

A neat and clear DFD can depict the right amount of the system requirement graphically.

It shows how data enters and leaves the system, what changes the information,  
and where data is stored.

## DATA COLLECTION



CUSTOMER



APPLICATION



ORGANISATION

## CLOUD



## ANALYSIS



## IMPACTS OF ANALYSIS

TOTAL NUMBER  
OF TRIPS

CUSTOMER  
AND  
SUBSCRIBER  
WITH GENDER

TOP BIKE USED  
WITH RESPECT  
TO TRIP  
DURATION

NUMBER OF  
BIKES USED BY  
RESPECTIVE  
AGE GROUP

TOP START STATION  
NAME WITH RESPECT  
TO CUSTOMER AGE  
GROUP

## PARTNER DATA PRODUCT



DASHBOARD



METRIC  
RESPONSE

## DATASET RECORDS

1. TRIP DURATION
2. START DATE AND TIME
3. STOP DATE AND TIME
4. START STATION
5. END STATION
6. STATION ID
7. BIKE ID
8. GENDER
9. USER TYPE
10. STATION LATITUDE / LONGITUDE

## IMPACT OF ANALYSIS ON NYC CITI BIKE SHARE SYSTEM



IMPACT  
MONITORING



IMPACT  
REPORT



PREDICTIVE MODELING

## User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer, Analysts, Organizations, Government	Collection of user data	USN-1	Lyft citi bike's official website provides the data to help with analysis, development, visualization etc. Data is collected from these published files.	I can access the data on Lyft citi bike's official website	High	Sprint-1
Customer, Analysts, Organizations, Government	Analysing the user data	USN-2	This data is used as input for creating various types of visualizations and analysis	I can view the analysis of the citi bike	High	Sprint-1

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
			is done and a dashboard is created			
Customer, Analysts, Organizations, Government	Dashboard	USN-3	The dashboard is used to display the top bike used with respect to trip duration, top 10 Start Station Names with respect to customer age group, to find the customer and subscriber with gender, to find total number of trips & calculating the number of bikes used by respective age groups.	I can register & access the dashboard with login	Low	Sprint-2