Project Design Phase-II
Data Flow Diagram & User Stories

Date	15 October 2022
Team ID	PNT2022TMID53270
Project Name	Project - A new hint to transportation - Analysis of the 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.

```
                              ┌─────────────────┐
                              │    Customer     │
                              └────────┬────────┘
                                       │
                                       ▼
┌──────────────────┐   ┌──────────────────┐   ┌──────────────────┐
│  ACCESS DETAILS  │   │      LOGIN       │   │     REGISTER     │
├──────────────────┤   ├──────────────────┤   ├──────────────────┤
│ Access the Citi  │◄──│ Login to the     │◄──│ Register into the│
│ Bike details and │   │ portal           │   │ application      │
│ view the data.   │   │                  │   │ providing        │
│                  │   │                  │   │ relevant details.│
└────────┬─────────┘   └──────────────────┘   └──────────────────┘
         │
         ▼
    ┌─────────┐                                        ┌──────────┐
    │         │                                        │ Dataset  │
    │Application│                                      └────┬─────┘
    │         │◄──┐                                         │
    └────┬────┘   │                                         ▼
         │        │                                  ┌──────────────┐
         │   ┌────┴──────────┐  ┌──────────────┐     │Analyst, Admin│
         │   │   ANALYZE     │  │    LOGIN     │◄────│              │
         │   ├───────────────┤  ├──────────────┤     └──────┬───────┘
         │   │ Analyse and   │◄─│ Login to the │            │
         │   │ visualize the │  │ portal       │            ▼
         │   │ data          │  │              │     ┌────────────────┐
         │   └───────────────┘  └──────────────┘     │DATA COLLECTION │
         ▼                                            ├────────────────┤
    ┌──────────────┐                                  │ Collect the    │
    │   DISPLAY    │                                  │ Citi Bike Data │
    ├──────────────┤                                  └────────────────┘
    │ Display the  │
    │ visualised   │
    │ details      │
    └──────────────┘
```
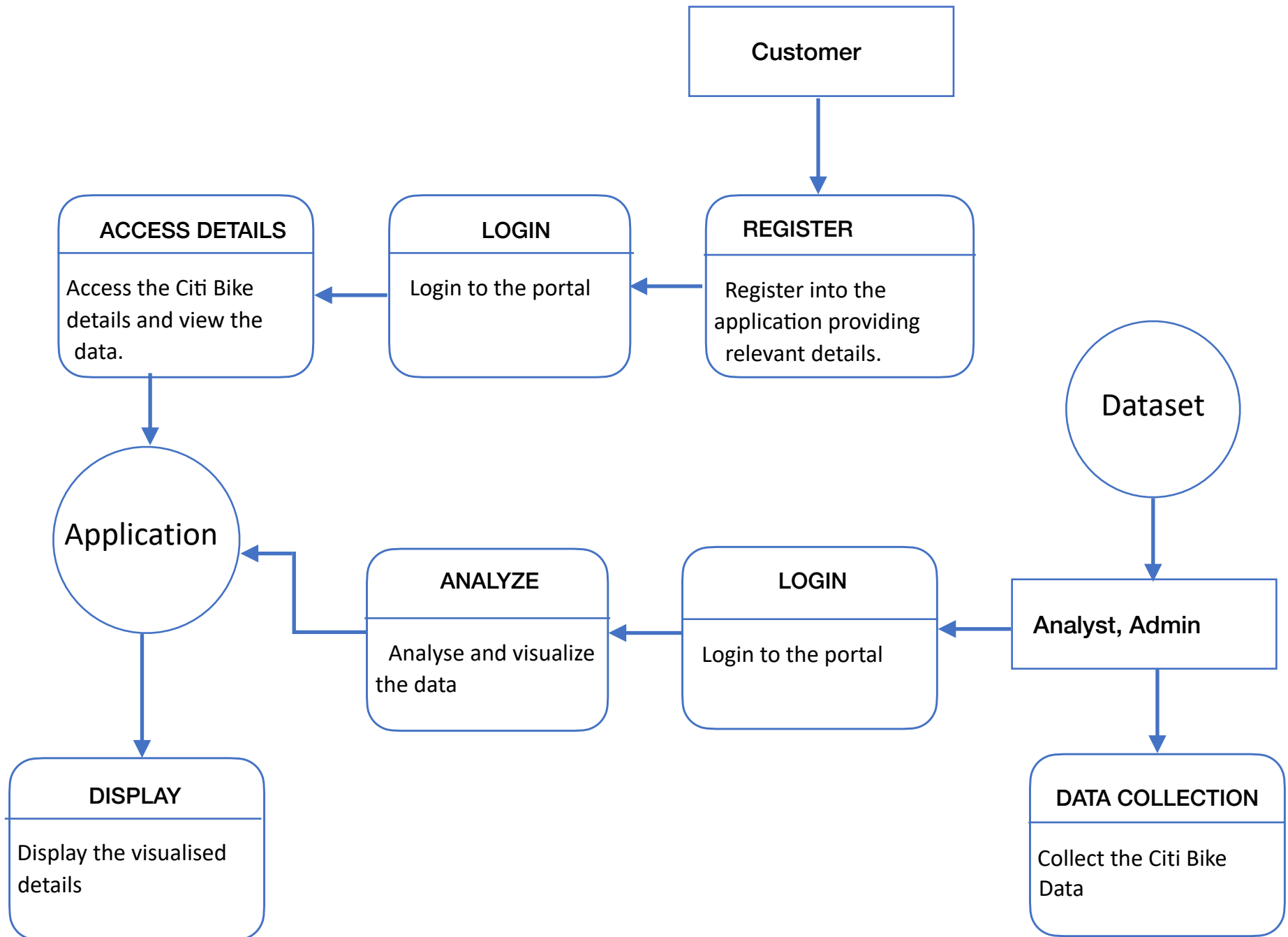
User Stories

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
Analyst, Organisation (Admin)	User Data collection	USN-1	The information is available on the official Lyft Citi Bike website to aid in research, development, visualisation, etc.These released files are where the data is gathered.	Access the data from Lyft City Bike website	High	Sprint-1
	Login to the platform	USN-2	Login to the application to upload the analysed data.	Successful login	High	Sprint-2
	Analysis of the user data	USN-3	This data is used as input for various types of visualisations, as well as for analysis and the creation of a dashboard.	Ability to view the data analysed using the given tools.	High	Sprint-3
	Display of data	USN-4	This dashboard is used to find the customer and subscriber with gender, to find the total number of trips, and to calculate the number of bikes used by respective age groups. It also displays the top bike used with respect to trip duration the top 10 Start Station and Names with respect to customer age group.	Access the dashboard and make changes	High	Sprint-3
Customer	Register	USN-5	Register with the application giving all the relevant details	Ability to access the account	High	Sprint-2
	Login to the platform	USN-6	Login to the application using the given username/email-id and password	Ability to access the account	Medium	Sprint-2
	Access the details	USN-7	Access the bike details and see the no.of bikes available	View the bike details	High	Sprint-3