Phase 1:

EARNING FROM BUSES IN THE YEARS 2015-2018

1. Define Problem Statement?

The Earning from Buses dataset ,a Well known dataset in the field of machine learning and the data analysis contains measurement of different years of earning daily trips. The Project aims to Perform an in-depth exploratory data analysis (EDA) and Statistical Analysis of the Earning from buses dataset to gain insights of the daily trips,no of Passengers ,cost for kilo meter ,Travelling the cities for the year To make a Meaningful Conclusion

2. Create project plan and product backlog

Project Plan:

1. Project Initiation:

● Define the project's purpose, objectives, and scope.
● Identify stakeholders and establish a project team.
● Create a Project Charter to document project initiation details.

2. Project Planning:

● Define project requirements, constraints, and assumptions.
● Develop a Work Breakdown Structure (WBS) to break the project into manageable tasks.

● Create a project schedule, including task dependencies and resource allocation . 3

3. Product Backlog Creation:

● Gather requirements from stakeholders.
● Prioritise backlog items based on business value.
● Define user stories with acceptance criteria.

4. Project Execution:

● Implement the project plan and manage the project team.
● Monitor progress and track project tasks.

5. Product Backlog Refinement:

● Continuously review and update the product backlog.
● Add new items based on evolving requirements.
● Remove or revise items as necessary.

6. Quality Assurance:

● Perform testing, quality checks, and validation.
● Project Monitoring and Control:

7. Product Development:

● Work on the product incrementally, addressing high-priority backlog items first.
● Utilise Agile methodologies (e.g., Scrum, Kanban) to manage development processes.

Product Backlog:

1. User Story 1: User Registration

Description: Allow users to register for the platform.
Priority: High

Story Points: 5
Acceptance Criteria: User can enter their name, email, and password to create an account.

2.User Story 2: Login Functionality

Description: Implement user login functionality.
Priority: High
Story Points: 3
Acceptance Criteria: Registered users can log in using their credentials.

3. User Story 3: Create Dashboard

Description: Develop a user dashboard.
Priority: Medium
Story Points: 8
Acceptance Criteria: Users can see their account details and recent activity on the dashboard.

4. Bug Fix: Homepage Load Time

Description: Address a performance issue on the homepage.
Priority: Medium
Story Points: 2
Acceptance Criteria: The homepage loads within 3 seconds.

5. Enhancement: User Profile Picture

Description: Allow users to upload a profile picture.
Priority: Low
Story Points: 5
Acceptance Criteria: Users can upload a profile picture and it's displayed on their profile.

3. Creation of Git Repository Submission(Word Document)

In [2]:

Step 1: Install Git

Procedure:

● Download Git: Visit the official Git website (https://git-scm.com/downloads) to download the appropriate
version for your operating system.
● Install Git: Follow the installation instructions provided for your OS.

Step 2: Create a New Git Repository

Procedure:

● Navigate to the root directory of your project using the terminal.

Step 3: Configure Git

Procedure:

● Set your name using the following command:

```
git config --global user.name
```

● Set your email address using the following command:

```
git config --global user.email
```

● Validation: To verify your Git configuration, run the following command:

```
git config --list
```

Step 4: Create Your First Commit

● Add all project files to the staging area:

```
git add .
```

● Create your initial commit with a meaningful message:

```
git commit -m
```

● Validation: To view your commit history, run the following command:

```
git log
```

Step 5: Create a Remote Repository (Optional)

Procedure:

- Create an account on a Git hosting platform.
- Follow the platform's instructions to create a new repository.
- Link your local repository to the remote repository using the provided URL.