

## Data Collection and Preprocessing Phase

|               |                                      |
|---------------|--------------------------------------|
| Date          | 15 March 2024                        |
| Team ID       | 739927                               |
| Project Title | Smart Lender-Flight delay prediction |
| Maximum Marks | 2 Marks                              |

### Data Collection Plan & Raw Data Sources Identification Report:

Data is collected from the Samrt Interz modules

#### Data Collection Plan:

| Section              | Description  |
|----------------------|--|
| Project Overview     | Flight delay prediction leverages advanced machine learning techniques to forecast delays in airline schedules, enhancing operational efficiency and passenger satisfaction. By analyzing vast amounts of data from various sources, including weather conditions, air traffic control information, historical flight data, and real-time operational metrics, these models identify patterns and factors contributing to delays. Accurate predictions enable airlines to proactively manage resources, optimize flight schedules, and communicate potential delays to passengers in advance. This not only minimizes financial losses and operational disruptions but also improves the overall travel experience by reducing the uncertainty and inconvenience associated with flight delays |
| Data Collection Plan | Data is collected from the Samrt Interz modules  |

|                 |   |  |     |  |        |
|-----------------|---|--|-----|--|--------|
| Smart<br>Interz | The dataset<br>comprises applicant<br>details YEAR,<br>QUARTER, MONTH<br>,DAY_OF_MONTH,inco<br>me, DAY_OF_WEEK, |  | CSV |  | Public |
|-----------------|---|--|-----|--|--------|