**Project Initialization and Planning Phase**

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| Date | 22 July 2024 |
| Team ID | - |
| Project Title | Global Food Production Trends and Analysis |
| Maximum Marks | 3 Marks |

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| **Project Overview** | |
| Objective | To analyze global food production trends for key commodities from 1961 to 2023 using Power BI and provide actionable insights for ABC Company. |
| Scope | The project covers rice, wheat, tea, coffee, maize, apples, avocados, bananas, oranges, and grapes; analysis includes total production, region-wise distribution, and annual trends. |
| **Problem Statement** | |
| Description | The agricultural production data is large and difficult to interpret in raw form, limiting strategic decision-making. |
| Impact | Solving this problem provides ABC Company with clear, interactive dashboards and actionable insights to support better planning in the agriculture sector. |
| **Proposed Solution** | |
| Approach | Data collection, cleaning, and visual analysis using Power BI dashboards, scenario-specific charts (bar, gauge, donut, area charts etc). |
| Key Features | Interactive dashboards for rice, wheat, tea, coffee, maize, fruits; region-wise and annual trend visualizations; comparative production insights. |

**Resource Requirements**

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| **Resource Type** | **Description** | **Specification/Allocation** |
| **Hardware** | | |
| Computing Resources | CPU/GPU specifications, number of cores | CPU: Intel i5 |
| Memory | RAM specifications | 16 GB |
| Storage | Disk space for data, models. | 512 GB SSD |
| **Software** | | |
| Frameworks | A Software Application | Microsoft Power BI Desktop |
| Libraries | Additional libraries | Not Required |
| Development Environment | Development Environment | Power BI, Excel, Git for version control |
| **Data** | | |
| Data | Data Source from Kaggle | A public dataset of .csv file of global food production.csv |