**Project Design Phase-II**

**Solution Requirements (Functional & Non-functional)**

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| Date | 31 January 2025 |
| Team ID |  |
| Project Name | Power BI Inflation Analysis Journeying Through Global Economic Terrain |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

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| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | Data Ingestion | Import global inflation dataset from Kaggle |
| FR-2 | Data Cleaning | Handle missing values, standardize column names, and format data. |
| FR-3 | Data Visualization | Generate Power BI reports (Line Charts, Heatmaps, Bar Graphs) |
| FR-4 | Filtering & Analysis | Provide filtering options (by country, region, year). |
| FR-5 | Predictive Insights | Use machine learning to forecast inflation trends (if applicable). |
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**Non-functional Requirements:**

Following are the non-functional requirements of the proposed solution.

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| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | The dashboard should be user-friendly and interactive. |
| NFR-2 | **Security** | Ensure data integrity and restrict unauthorized modifications. |
| NFR-3 | **Reliability** | Ensure consistent and accurate results across multiple executions. |
| NFR-4 | **Performance** | Optimize Power BI queries to ensure fast rendering of reports. |
| NFR-5 | **Availability** | The system should be accessible 24/7 with minimal downtime. |
| NFR-6 | **Scalability** | Ensure the system can handle additional datasets in the future. |