

Project phase-II

Solution Requirement(Functional &Non-Functional)

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| Date | 21 March 2025 |
| Team ID | PNT2025TMID06737 |
| 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.

| FR No. | Functional Requirement (Epic) | Sub Requirement (Story / Sub-Task) |
|--------|-------------------------------|--|
| FR-1 | Data Collection | Collect inflation data from multiple reliable sources Automate data import from APIs and databases Gather historical data for trend analysis |
| FR-2 | Data Standardization | Convert data formats to ensure uniformity Handle missing or inconsistent data |
| FR-3 | Data Visualization | Build interactive dashboards to display inflation trends Use Power BI visual elements (charts, graphs, heatmaps) |
| FR-4 | Data Reporting | Generate automated reports summarizing inflation insights Include predictive analytics for future trends |

Non-functional Requirements:

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

| FR No. | Non-Functional Requirement | Description |
|--------|----------------------------|--|
| NFR-1 | Usability | The dashboard should have an intuitive and user-friendly interface for effortless navigation and data exploration. |
| NFR-2 | Security | Ensure secure access with role-based authentication and data encryption to protect sensitive information. |
| NFR-3 | Reliability | The system should provide accurate and consistent results without unexpected failures or data loss. |
| NFR-4 | Performance | The dashboards should load and update data efficiently, even with large datasets, to maintain responsiveness. |
| NFR-5 | Availability | The system should be available 24/7 to allow users to access real-time insights at any given time. |

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| NFR-6 | Scalability | The solution should be able to handle increasing data volume and additional features without performance degradation. |
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