Project Design Phase-II

Solution Requirements (Functional & Non-functional)

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| Date | 31 January 2025 |
| Team ID | PNT2025TMID02539 |
| Project Name | Global Food Production Trends and Analysis: A Comprehensive Study from 1961 to 2023 Using Power BI |
| 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 | User Registration | Registration through Form Registration through Gmail  Registration through LinkedIN |
| FR-2 | User Confirmation | Confirmation via Email Confirmation via OTP |
| FR-3 | Resume Processing | Resume Parsing (Extracting Name, Skills, Experience), Keyword Matching with Job Description, NLP-based Resume Ranking |
| FR-4 | Candidate Evaluation & Report | AI-Powered Scoring, Similarity Matching with Job Role, Generating Candidate Shortlist Report |
| FR-5 | Admin Dashboard | User Management, Job Posting Management, Analytics & Reports |
| FR-6 | System Security & Data Privacy | Role-Based Access Control (RBAC), Data Encryption, GDPR Compliance |

# 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 system has an intuitive UI with easy navigation and quick access to key features. |
| NFR-2 | **Security** | The system has Role-Based Access Control (RBAC), data encryption, and ensures GDPR compliance. |

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| NFR-3 | **Reliability** | The system has **99.9% uptime**, with robust error handling and failover mechanisms. |
| NFR-4 | **Performance** | The system processes and ranks **100+ resumes per second** with minimal latency. |
| NFR-5 | **Availability** | The system has **24/7 availability**, using auto-scaling servers and cloud-based infrastructure. |
| NFR-6 | **Scalability** | The system efficiently handles increasing users and high data volumes without performance issues. |