**Project Design Phase-II**

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

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| Date | 25 June 2025 |
| Team ID | LTVIP2025TMID31802 |
| Project Name | Citizen AI |
| 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 | Real-Time Chat Assistant | Input text query, process with IBM Granite, display response |
| FR-2 | Sentiment Feedback System | Submit text, classify using Hugging Face, display sentiment |
| FR-3 | Analytics Dashboard | Render sentiment pie chart and trend graph from collected feedback |
| FR-4 | Download Logs | Allow users to download sentiment logs as CSV and JSON files |
| FR-5 | Error Handling | Show appropriate messages for invalid input or API failures |

**Non-Functional Requirements**

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

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| --- | --- |
| NFR No. | Non-Functional Requirement Description |
| NFR-1 | Usability — Intuitive UI with a clean layout using Gradio |
| NFR-2 | Security — Use of API tokens stored in environment variables |
| NFR-3 | Reliability — Stable performance with fallback responses for errors |
| NFR-4 | Performance — Chat and sentiment response time under 3 seconds |
| NFR-5 | Availability — Application accessible 24/7 via local or hosted instance |
| NFR-6 | Scalability — Modular components can be extended or containerized |