Project Design Phase-II Solution Requirements (Functional & Non-functional)

Date	24 july 2025
Team ID	PNT2025TMID14671
Project Name	E-Commerce
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

Step No.	FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
1	FR-1	User Interaction & Registration	User logs in / registers through Form, Gmail, or LinkedIn
2	FR-2	File Acquisition from External Source	Retrieve file from external source via application
3	FR-3	Data Visualization	Visualize results using D3.js charts and graphs
4	FR-4	Text Extraction & Processing	Send file/text to Watson NLU for natural language analysis
5	FR-5	Natural Language Understanding	Analyze text sentiment, keywords, entities via Watson NLU
6	FR-6	Content Extraction	Extract raw text from file using Apache Tika

Non-Functional Requirements

NFR-2

NFR-3

NFR-4

NFR-6

NFR Non-Functional Description

NFR-1 Usability Intuitive for all user

levels.

Encrypt files and

Security

data during upload,

processing, and

storage.

Ensure fault-

Reliability tolerant operation

and quick recovery.

Maintain fast

Performance processing times

for large files.

Ensure 99.9%

uptime for

NFR-5 **Availability** application and

cloud services.

System should

Scalability handle growth in

users and file sizes

efficiently.