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

Date	03October 2022
Team ID	PNT2022TMID34177
Project Name	Natural Disasters Intensity Analysis and Classification using Artificial Intelligence
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	Reporting	Markets in Financial Instruments Directive II, Monetary Authority of Singapore, Artificial Intelligence repoorting.
FR-2	Compliance to Laws or Regulations	Robust and Reliable Safe and Secure.
FR-3	External Interface	Virtual agents and natural language generation.
FR-4	Business Rules	support data based decisions and is not an autonomous system.
FR-5	Authentication	3D biometric facial recognition technology.
FR-6	Transaction Processing	Dubbed IBM z16, Big Blue.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Used for protecting infrastructure, people, social and natural environment, reliance performance and fast recovery.
NFR-2	Security	Artificial intelligence product helps security personnel detect threats by scanning the underside of passing vehicles.

NFR-3	**Reliability**	AI can help disaster management teams assign risk scores to public and private properties, enabling them to gauge infrastructure vulnerability in the event of a catastrophe. AI for disaster recovery would be to analyze real-time CCTV footage to identify emergencies and sound the alarm.
NFR-4	**Performance**	AI systems can detect urgency by analysing the tone of speech, filtering out redundant or even less urgent calls and sorting them depending on the seriousness of the problem.
NFR-5	**Availability**	AI software currently being used in everyday life like Voice assistants, image recognition for face unlock in cellphones, and ML-based financial fraud detection and it can be available to detect and monitor the affected areas during the pandemic time.
NFR-6	**Scalability**	Roughly 6,800 natural disasters take place every year, around the globe. It indicates that almost 68,000 people lose their lives.