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

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Team ID	NM2023TMID17607
Project Name	**Cancer Mortality & Incidence Rates Classification Using ML**

Functional Requirements:

Following are the functional requirements of the proposed solution.

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	Detecting Cancer mortality rates by ML algorithms	It can determine cancer mortality rate from previous data. It provides warning to the health department about the current status of the mortality rate.
FR-4	Web based interface for users	It is deployed on IBM cloud platform to ensure availability and security. Since it is open source, anyone can access the web for their information.
FR-5	User friendly interface for users	Users accomplish their task with minimal effort reducing frustration and increasing satisfaction.
FR-6	Performance	Able to perform a task accurately not only with training data but also in real-time.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	User-Friendly Interface so that users can experience reasonable processing times within an acceptable time frame.
NFR-2	**Security**	Ensures security, data privacy, access control, end-to-end encryption, threat detection and prevention, data backup , compliance and authentication.
NFR-3	**Reliability**	High accuracy in prediction. Cross-validation techniques. Providing informative error messages to prevent failures
NFR-4	**Performance**	It depends on factors such as the size and complexity of the dataset, the type of machine learning model used, and the accuracy of the model.
NFR-5	**Availability**	It can be made open source allowing source code, datasets, and relevant documentation to be freely accessible to the public
NFR-6	**Scalability**	Automated workflow management systems can streamline the process, making it easier to handle larger datasets and scale up the system