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

Date	13 May 2023
Team ID	NM2023TMID00211
Project Name	Project - Cognitive Care : Early Intervention for Alzeimer's disease

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Brain Scan Image Input and Analysis	• User input image upload • Image Preprocessing
FR-2	Disease Diagnosis	• Analysis of image against Xception model • Generation of Prediction by model • Model prediction display in UI
FR-3	User Interface	• General Information about Alzheimer's Page • Diagnosis Prediction (from images uploaded) Page • Diagnosis Information Page

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The application should be user-friendly and instructions are to be illustrated to ensure language barrier isn't a constraint.
NFR-2	**Security**	Application deployment must be in a secure platform since it hosts sensitive data and to ensure data privacy of user.
NFR-3	**Reliability**	Sudden increase in traffic must be handled without worrying about application crashing or experiencing downtime and if it does, backup and recovery options should be available.
NFR-4	**Performance**	The application should be fast and responsive and the model should take less time to generate result.
NFR-5	**Availability**	Addition of new pages or features and tuning of model should be possible.
NFR-6	**Scalability**	As a rough estimate, the system should be able to handle at least several thousands users per day.