PROJECT DESIGN PHASE-II SOLUTION REQUIREMENTS(FUNCTIONAL&NON FUNCTIONAL)

DATE	24 MAY 2023
TEAM ID	NM2023TMID17750
PROJECT NAME	DEEP LEARNING MODEL FOR
	DETECTING DISEASES IN TEA
	LEAVES

FUNCTIONAL REQUIREMENTS:

FR NO	FUNCTIONAL REQUIREMENT	SUB REQUIREMENT
FR-1	IMAGE ACQUISITION	DATASET COLLECTION MANAGEMENT
FR-2	PREPROCESSING	MODEL DEVELOPMENT AND TRAINING
FR-3	DISEASE DETECTION	FEATURE EXTRACTION AND REPRESENTATION
FR-4	CLASSIFICATION AND LOCALIZATION	DISEASE DETECTION ALGORITHM

NON FUNCTIONAL REQUIREMENTS:

FR NO	NON FUNCTIONAL REQUIREMENT	DESCRIPTION
NFR- 1	USABILITY	THE MODEL SHOULD BE USABLE IN ITS EFFIECTIVENESS AND ADOPTION
NFR- 2	SECURITY	THE MODEL SHOULD ADHERE TO DATA PRIVACY REGULATIONS AND ENSURE THE SECURITY OF USER DATA
NFR- 3	RELIABILLITY	THE MODEL SHOULD RELIABILE IN DETECTING TEA LEAF DISEASES
NFR- 4	PERFORMANCE	THE MODEL SHOULD EXHIBIT HIGH PERFORMANCE CHARACTERISTICS INCLUDING FAST INFERENCE TIMES AND EFFICIENT RESOURCE UTILIZATION
NFR- 5	AVAILABILITY	THE MODEL SHOULD AVAILABLE FOR THE UNSEEN

		TEA LEAF AND VARAITION OF TEA LEAF
NFR-	SCALABILITY	THE MODEL SHOULD BE
6		SCALABLE CPABLE OF
		HANDLING VARYING VOLUMES
		OF TEA LEAF IMAGE