Project Design Phase-II

Functional Requirements (both Functional & Non-functional)

Date	16 November 2022
ProjectName	Real-TimeCommunicationSystemPoweredbyAIforspeciallyabled
MaximumMarks	4Marks

Functional Requirements:

Followingarethefunctionalrequirementsoftheproposedsolution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR- 1	UserRegistration	RegistrationthroughGmail
FR- 2	UserAffirmation	AffirmationviaEmail
FR- 3	UserCommunication	Correspondenceshouldbepossiblethroughpcorportablecamera.
FR- 4	Userrequirement	Optionshouldbeshownforhandsign to text and voice conversion and viceversa.
FR- 5	CommunicationNecessities	Tutorcanbemadeavailabletohave onetooneteachingforuser.
FR- 6	RegulatoryNecessities	Appshutdownincaseofcyberattack
FR- 7	Reporting	Ontheoffchancethatanyissuestracked down in the application,naturally it will be advised to thedesigner.

FR- 8	Compliancetorulesor law	Termsandconditions,privatepolicy,E ndusersubscriptionagreement.

Non-functional Requirements:

FR No.	Non-Functional Requirement	Description
NFR- 1	Usability	The camera captures all expressions includingfacialexpressionsandhandgestures whichcanbeeasilyusedbyallagegroups.
NFR-2	Security	The system is more secure andinformationofthecustomersis alsomaintainedconfidentially.
NFR-3	Reliability	The cost- effective nature of thesystemmakesitextremelyliable andthus,efficient.
NFR-4	Performance	The performance of the model isefficient.Thecost-effectivenatureofthesystemmakesi textremelyliable.The latency is very less for theconversionprocess.
NFR-5	Availability	The solution is suitable for differentlanguages and can be used in manycountries.Itcanbetrainedfor alltheavailablesignlanguages.This modelcanbeusedatanytimeanywh ere.
NFR-6	Scalability	Thesystemgivesoutputrapidly.Italsopredicts quicklywhenitgetssomanyinputsatatime.Itpr edicts different types of sign language at atime.