ProjectDesignPhase- II

SolutionRequirements(Functional&Non-functional)

Date	02 November 2022
TeamID	PNT2022TMID29489
ProjectName	Real- Time Communication System Poweredby AI forspeciallyabled
MaximumMarks	4 Marks

FunctionalRequirements:

Followingarethefunctionalrequirementsoftheproposedsolution.

FR No.	FunctionalRequirement(Epic)	SubRequirement(Sub- Task)
FR- 1	UserRegistration	RegistrationisdonethroughGmail
FR- 2	UserConfirmation	ConfirmationviaEmail
FR- 3	Communicationrequirement	Foroneononementoring,teacherwill beavailable.
FR- 4	Userrequirement	Option should be shown for hand sign totextandvoiceconversionandvicversa.
FR- 5	UserCommunication	Communicationcanbedonethroughpcormobile.
FR- 6	Regulatoryrequirements	Incaseofanycyberattackstheappgetsautomaticallyshutdown.
FR- 7	Reporting	Automatednotificationwillbereceivedbythedeveloperincaseof anyissues.
FR- 8	Compliance to rules orlaw	Terms and conditions, private policy, Endusersubscriptionagreementand cookies.

Non- functionalRequirements:

FRNo.	Non-FunctionalRequirement	Description
NFR- 1	**Usability**	The camera captures all expressionsincluding facial expressions and handgestureswhich canbeeasilyused byallage groups. It can be used by deaf-mutepeopleandtheir caretakers.
NFR- 2	**Security &Privacy**	The system is more secure andinformationofthecustomer sisalsomaintainedconfidentiall y.
NFR- 3	**Accuracy**	The system must have a great accuracyrate.Theaccuracyisimportantsothatthedisabled students could get a clearunderstanding.
NFR- 4	**Performance**	The performance of the model is efficient.The cost- effective nature of the systemmakes it extremely liable. The latency isveryless forthe conversion process.
NFR- 5	**Availability**	The solution is suitable for differentlanguages and can be used in manycountries. It can be trained for all theavailablesignlanguages.Thismodelcanbeusedatanytime anywhere.
NFR- 6	**Scalability**	The system gives output rapidly. It alsopredicts quickly when it gets so manyinputsatatime.Itpredictsdifferenttypesof sign language at a time. Upto 25000users canbeusethismodel atatime.