

ProjectDesignPhase-II
SolutionRequirements(Functional&Non-functional)

TeamID	PNT2022TMID50471
ProjectName	Project-Real-TimeCommunicationSystem PoweredbyAIforSpeciallyAbled
MaximumMarks	4Marks

FunctionalRequirements:

Followingarethefunctionalrequirements of the proposed solution.

FRNo.	FunctionalRequirement(Epic)	SubRequirement(Story/Sub-Task)
FR-1	UserRegistration	RegistrationthroughForm RegistrationthroughGmail
FR-2	UserConfirmation	ConfirmationviaEmail ConfirmationviaOTP
FR-3	UserLogin	LoginthroughForm LoginthroughGmail
FR-4	ImageUpload	ImageUploadviaDrag&Drop ImageUploadbychoosingfromlocalfiles subsystem
FR-5	TextEntry	TextEntrybyCopy-Paste TextEntrybyTyping
FR-6	Conversion	Sign-Language to Speech Conversion Text to Sign-Language Conversion
FR-7	ActivityLog	Viewlistofactiveusers Viewlogoftranslationsperformed

Non-functionalRequirements:

Followingarethefunctionalrequirements of the proposed solution.

FRNo.	Non-FunctionalRequirement	Description
NFR-1	Usability	Theapplicationcanbeusedbyclientswithoutpriorknowledge of machine-learning algorithms. Basicknowledgeoftext-entryandfiledirectory Subsystemissufficient
NFR-2	Security	Accessisprovidedonlytoregisteredusers,eitherthroughusername-passwordpairorviatheir Gmailaccount
NFR-3	Reliability	Theapplicationhasanextremelylowfailurerate/downtimeandhasaclear,predictableflowof Operations
NFR-4	Performance	Theapplicationprovidesaccuratetranslationsfrom sign-languagetospeechaswellasfromtext-to- signlanguage

NFR-5	Availability	Clients can use the application to perform conversions provided they have a stable Internet connection
NFR-6	Scalability	The application seamlessly and efficiently handles a growing number of clients/users without any significant reduction in performance