ProjectDesignPhase-II
SolutionRequirements(Functional&Non-functional)

Date	18October2022
TeamID	PNT2022TMID44898
ProjectName	Project -Real Time CommunicationSystemsPoweredbyA IforSpeciallyabled
MaximumMarks	4 Marks

FunctionalRequirements:

Followingarethefunctional requirementsoftheproposedsolution.

FR No.	**FunctionalRequirement (Epic)**	**SubRequirement (Story/ Sub-Task)**
FR-1	UserRegistration	• RegistrationthroughForm • RegistrationthroughGmail
FR-2	UserConfirmation	• ConfirmationviaEmail • ConfirmationviaOTP
FR-3	System	• Desktopwithhighresolutioncamera. • ProvidesAccesstocaptureImagethroug h the Camera. • Provides Access to Upload theCapturedimagethroughGallery.
FR-4	Textconversion	ConvertstheSignlanguageintoatextusing Convolutional Neural Network (CNN)Model.
FR-5	SentenceTranslation	RecognizestheseparateSignsofOne-By-OneanditCouldprovideaTranslationinthe situationwhereSignedExtractSystem(SEE)isp rovided.
FR-6	Review	UsersCanGivetheirFeedbackontheReview pageabout theApplication.

Non-functionalRequirements:

Followingarethenon-functionalrequirementsoftheproposedsolution.

FRNo.	**Non-FunctionalRequirement**	**Description**
NFR-1	**Usability**	To convey a message to normal people,aswellasconvertspeechintoundersta ndablesignlanguageforthedeaf anddumbpeople.
NFR-2	**Security**	Convertedinformationusingsignsintospee ch isaccessedonlybythe user.
NFR-3	**Reliability**	SignMethodisRelevanttouseforDifferentl y abledpersons.
NFR-4	**Performance**	Thetimeforconvertingsignsintospeechsh ouldbefasterfortherealtimecommunication.
NFR-5	**Availability**	Providesautomaticrecoveryasmuchas possible.
NFR-6	**Scalability**	This app enables deaf and dumb peopletoconveytheirinformationusingsigns whichgetconvertedtohuman-understandablelanguageandspeechis givenasoutput.