**ProjectDesignPhase-I**

**ProjectTitle:** Realtimecommunicationsystemspoweredby AIforspeciallyabled.  **ProblemSolutionFitTemplate**   **TeamID:** PNT2022TMID18759

**DefineCS, fitinto CC**

**ExploreAS,differentiate**

**Focuson J&P, tapinto BE,understand RC**

### 1.CUSTOMERSEGMENT(S) — CS

The normal people who are trying to communicatewith Specially abled persons such as deaf and dumbpeoplearethecustomer

### 6.CUSTOMERCONSTRAINTS — CO

Whatconstraintspreventyourcustomersfromtakingactionorlimittheirchoicesofsolutions?

Thesignlanguageisnotunderstandabletoall.Thedifficultyinunderstandingthesignlanguagebynormalpeople

### 5.AVAILABLESOLUTIONS — AS

Whichsolutionsareavailabletothecustomerswhentheyfacetheproblem orneedtogetthejobdone?Whathavetheytriedinthepast?Whatpros& cons do these solutions have? i.e. pen and paper is an alternative todigitalnotetaking

Provide personalized learning experiences. It makesuseoftexteditorsandsocialmediatoEasytolearnandvisualizeaccess withallkeywords.

Usingtexttypewritersand AIBaseddevicesie.Voicerecongnition

### 2.JOBS-TO-BE-DONE/PROBLEMS — J&P

Which jobs-to-be-done (or problems) do you address for yourcustomers?Therecouldbemorethanone;exploredifferentsides

Createacommunicationlinkbetweendeaf-dumbandnormalpeopleUnderstandinginputsfromtheusermaytake alotofefforts..

AIinstantlytranscribestheconversationofagroup of people. Its algorithm adds punctuation,the name of the person who is talking, and thenecessary vocabulary from the user's dictionary.Voice Accesswas specially created for peoplewith reduceddexterity.

### 9.PROBLEMROOTCAUSE — RC

Whatistherealreasonthatthisproblemexists?Whatisthebackstorybehindtheneedtodothisjob? i.e.customershavetodoitbecauseofthechangeinregulations.

Thecommunicationbarrieristherootcause.

Duringemergencythespeciallyabledpeoplecannotcontact or express their feelings to others (normalpeople).

The feeling cannot be shared with other they feelstressed.

### 7.BEHAVIOUR — BE

Whatdoesyourcustomerdotoaddresstheproblemandgetthejobdone?

i.e.directlyrelated:findtherightsolarpanelinstaller,calculateusageand benefits;indirectlyassociated:customersspendfreetimeonvolunteeringwork (i.e.Greenpeace)

AI has a huge impact on people with disabilities everydaylives.

Today,facialrecognitionsoftwareisbeingusedforblindchildren to read books aloud and as an accessible way fordeafpeopletocommunicatewithothersviavideochat.

### 3. TRIGGERS  TR

What triggers custOmer stO act? i.e. seeing their neighbOur installing sOlar panels, reading abOut amOre efficient sOlution in the news.

An ability of the customers to communicate efficiently at serious and necessary situations.

AI is to enable you to achieve personal fulfillment and stay adaptable in this fast-changing tech industry.

### 4. EMOTIONS: BEFORE/ AFTER  EM

How do customers feel when they face a problem or a job and afterwards?
i.e. lOst, insecure > cOnfident, in cOntrOl- use it in yOur cOmmunication strategy & design.

Visually impaired users can set it up to work with VoiceOver. Allows people with disabilities to fully control their environments

### 10. YOUR SOLUTION  SL

If yOu are wOrking on an existing business, write dOwn yOur current sOlution first, fill in the canvas, and check hOw much it fits reality.

If yOu are wOrking on a new business prOpOsition, then keep it blank until yOu fill in the canvas and cOme up with a sOlution that fits within in custOmer limitations, sOlves a prOblem and matches custOmer behaviour.

This device helps in emergency situations to contact. The customer can share their feelings and also helps in expressing emotions and their motives.

### 8. CHANNELS of BEHAVIOUR  CH

**8.1 ONLINE**
What kind of actions do customers take online? Extract online channels from #7
AI technologies can play an important role in breaking down the communication through online translation.

**8.2 OFFLINE**
What kind Of actions dO custOmers take offline? Extract Offline channels frOm #7 and use them fOr custOmer develOpment.

They buy devices that helps in translating signed language to text and vice versa.