**ProjectDesignPhase-I**

**ProjectTitle:RealtimecommunicationsystemspoweredbyAIforspeciallyabled. ProblemSolutionFitTemplate TeamID:** PNT2022TMID44898

**ExploreAS,differentiate**

**DefineCS, fitinto CC**

2.JOBS-TO-BE-DONE/PROBLEMS

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

**Provide personalized learning experiences. It makesuseoftexteditorsandsocialmediatoEasytolearnandvisualizeaccess withallkeywords.**

**UsingtexttypewritersandAIBaseddevicesie.Voicerecongnition**

**AS**

**5.AVAILABLESOLUTIONS**

**Whichsolutionsareavailabletothecustomerswhentheyfacetheproblem**

**6.CUSTOMERCONSTRAINTS**

**CC**

**Whatconstraintspreventyourcustomersfromtakingactionorlimittheirchoicesofsolutions?**

**Thesignlanguageisnotunderstandabletoall.Thedifficultyinunderstandingthesignlanguagebynormalpeople**

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

**CS**

**1.CUSTOMERSEGMENT(S)**

**Whoisyourcustomer?**

Focuson J&P, tapinto BE,understand RC

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

# J&P

9.PROBLEMROOTCAUSE

**Whatistherealreasonthatthisproblemexists?Whatisthebackstorybehindtheneedtodothisjob?**

# RC

7.BEHAVIOUR

**Whatdoesyourcustomerdotoaddresstheproblemandgetthejobdone?**

# BE

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.

**i.e.customershavetodoitbecauseofthechangeinregulations.**

Thecommunicationbarrieristherootcause.

Duringemergencythespeciallyabledpeoplecannotcontact or express their feelings to others (normalpeople).

The feeling cannot be shared with other they feelstressed.

**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.

Focuson J&P, tapinto BE,understand RC

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| **Identify strongTR &EM** | **3.TRIGGERS TR**  Whattriggerscustomerstoact?i.e.seeingtheirneighbourinstalling  solarpanels,readingaboutamoreefﬁcientsolutioninthenews.  **An ability of the customers to communicateefficientlyatseriousandnecessarysituations.**  **AIistoenableyoutoachievepersonalfulfillment and stay adaptable in this fast-changingtechindustry.** | **10.YOURSOLUTION SL**  Ifyouareworkingonanexistingbusiness,writedownyourcurrentsolutionﬁrst,ﬁllinthecanvas,andcheckhowmuchit ﬁtsreality.  Ifyouareworkingonanewbusinessproposition,thenkeepitblankuntilyouﬁllinthecanvasandcomeupwithasolutionthatﬁtswithincustomerlimitations,solvesaproblemand matchescustomerbehaviour.  **This device helps in emergency situations to contact .Thecustomercan sharetheirfeelingsandalsohelpsinexpressingemotions and theirmotives.** | 1. **CHANNELSofBEHAVIOUR CH**    1. **ONLINE**   **Whatkindofactionsdocustomerstakeonline?Extractonlinechannelsfrom#7**  **AItechnologiescanplayanimportantroleinbreakingdownthecommunicationthroughonlinetranslation.**   * 1. **OFFLINE**   Whatkindofactionsdocustomerstakeofﬂine?Extractofﬂinechannelsfrom#7  andusethemforcustomerdevelopment.  **Theybuydevicesthathelpsintranslatingsignedlanguagetotext and vice versa.** | **Identify strongTR &EM** |
| **4.EMOTIONS: BEFORE/ AFTER EM**  **Howdocustomersfeelwhentheyfaceaproblemorajobandafterwards?**  i.e.lost,insecure>conﬁdent,incontrol-useitinyourcommunicationstrategy&design.  **VisuallyimpaireduserscansetituptoworkwithVoiceOver.Allowspeoplewithdisabilitiestofullycontroltheirenvironments** |