# Project Planning Phase
# Project Planning (Milestone Activity List)

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| Date | 22 October 2022 |
| Team ID | PNT2022TMID06853 |
| Project Name | Real-Time Communication System Powered By AI for Specially Abled |
| Maximum Marks | 4 Marks |

## *MILESTONE*

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| Pre-Requisites | M-01 | To complete this project we should have known the following software concepts and packages such as Keras, Tensorflow, Python, Anaconda, OpenCV, Flask,etc… | Yes |
| Project Structure | M-02 | To builkd a Project Structure which needs to be followed for building Conversation Engine | Yes |
| Collection of Data | M-03 | To collect data for the image Preprocessing,Collection of dataset are divided into Train set and Test set,The two file are compiled separeately and execture for the Traiining and Testing process. | Yes |
| Image Preprocessing | M-04 | Importing the ImageDataGenerator libraries, Applying Image Data Generator Functionality to train set and testset | Yes |

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| Model Building | M-05 | Importing the model building libraries, Initializing the model, Adding Convolution layers, Adding the Pooling layers, Adding the Flatten layers, Adding Dense layers, Compiling the model , Fit and Save the model. | Yes |

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| Test the model | M-06 | Import the packages and save the model and Load the test image, pre- process it and predict it. | Yes |

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| Application layer | M-07 | Build the flask application and the HTML pages. | Yes |
| Train CNN model | M-08 | Register for IBM Cloud and train Image Classification Model | Yes |
| Ideation Phase | M-09 | Preparation of Literature Survey,Information Gathering, empathy map and ideation | Yes |
| ProjectDesign Phase-I | M-10 | Preparation of Proposed solution,Problem-Solution fit and Solution Architecture | Yes |
| Project Design Phase-II | M-11 | Preparation of Customer journey map,Functional requirements,Data flow diagram and Technology stack Architecture | Yes |
| Project Planning Phase | M-12 | Prepare Milestone list , Activity list and Sprint Delivery Plan | Yes |
| Project Development Phase | M-13 | Project Development delivery of Sprint 1, Sprint 2, Sprint 3, Sprint 4 | Yes |

# ACTIVITY LIST

| Activity Number | Activity | Sub Activity | Assigned To | Status |
|---|---|---|---|---|
| 1. | **Pre-Requistes** | | ITOKI,JATIN, RENATHUNG, KRISHNAN | Completed |
| 2. | **PROJECT STRUCTURE** | Structure Brainstroming and Preparation | ITOKI,JATIN, RENATHUNG, KRISHNAN | Completed |
| 3. | **Collection of Data** | Dataset download structure | ITOKI,JATIN, RENATHUNG, KRISHNAN | Completed |
| 4. | **Image Preprocessing** | Import the ImageDataGene rat or Library and applying ImageDataGene -rator Functionality to train set and testset. | ITOKI,JATIN, RENATHUNG, KRISHNAN | Completed |

| 5. | **Model Building** | Initializing of the model,Adding Convolution layers, Pooling layers,Flatten layers and Dense layers | ITOKI,JATIN, RENATHUNG, KRISHNAN | Completed |
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| 6. | **Test of the Model** | Import the packages and save the model,Load the test image, pre-process it and predict it. | ITOKI,JATIN, RENATHUNG, KRISHNAN | In progress |
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| 7. | **Application Layer** | Build the flask application and the HTML pages. | ITOKI,JATIN, RENATHUNG, KRISHNAN | Completed |

| 8.  | **Trainof CNN model in IBM cloud** | Train image classification model and register for IBM cloud. | ITOKI,JATIN, RENATHUNG, KRISHNAN | In progress |
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| 9.  | **Ideation Phase** | Literature Review,Emp athy map,Ideation of the project. | ITOKI,JATIN, RENATHUNG, KRISHNAN | Completed |
| 10. | **Project Design Phase- 1** | Proposed Solution,Pro blem,Solutio -n Fit and Solution Architecture | ITOKI,JATIN, RENATHUNG, KRISHNAN | Completed |
| 11. | **Project Design Phase-2** | Customer journey,Functi onal requirement,Data flow Diagrams and Techno –logy stack Architecture. | ITOKI,JATIN, RENATHUNG, KRISHNAN | Completed |

| 12. | **Project Planning Phase** | Milestone preparaton, activity lists and Sprint delivery plan. | ITOKI,JATIN, RENATHUNG, KRISHNAN | Completed |
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| 13. | **Project Development Phase** | Project developmentDelivery of Sprint-1. Project developmentDelivery of Sprint-2. Project development- Delivery of Sprint-3. Project development- Delivery of Sprint-4. | ITOKI,JATIN, RENATHUNG, KRISHNAN | In Progress |