

| | |
|-------------|--|
| TeamID | PNT2022TMID00995 |
| ProjectName | Real-Time Communication System Powered By AI For Specially Abled |
| TeamSize:5 | <p>Team Leader : T PALLAVI</p> <p>Teammember : K Nisha</p> <p>Team member : K KARTHIKA</p> <p>Teammember: D ROJA</p> |

MILESTONELIST

| | | | |
|---------------------|------|--|-----|
| 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 | This is the project structure which needs to be followed for building Conversation Engine | yes |
| Data collection | M-03 | We are collecting data for building our project. We will be creating two folders one for training and the other for testing. Images present in the training folder will be used for building the model and the testing images will be used for validating our model. | Yes |
| Image Preprocessing | M-04 | Importing the ImageDataGenerator libraries, Applying ImageDataGenerator Functionality to train set and test set | Yes |

| | | | |
|---------------------------|------|--|-----|
| 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 |
| Test the model | M-06 | Import the packages and save the model and Load the test image, pre-process it and predict it. | Yes |
| 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 | Prepare Literature Survey on the selected Project and Information Gathering, empathy map and ideation | Yes |
| Project Design Phase-I | M-10 | Prepare Proposed solution, problem-solution fit and Solution Architecture | Yes |
| Project Design Phase-II | M-11 | Prepare Customer journey, functional requirements, Data flow diagram and Technology 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 |

ACTIVITYLIST

| Activity Number | Activity | SubActivity | AssignedTo | Status |
|-----------------|--------------------|--|-------------|-----------|
| 1. | PRE-REQUISITES | | ALL Members | Completed |
| 2. | PROJECTSTRUCTURE | | ALL Members | Completed |
| 3. | DATA COLLECTION | 3.1 Downloadthe Dataset | GAYATHRI.M | Completed |
| 4. | IMAGEPREPROCESSING | 4.1 Import theImageDataGeneratorLibrary. 4.2 ApplyingImageDataGeneratorFunctionality to trainset and testset. | GAYATHRI.M | Completed |
| 5. | MODEL BUILDING | 5.1 Importing themodelbuildinglibraries. 5.2 Initializing the model. 5.3 Adding Convolutionlayers 5.4 Adding the Poolinglayers 5.5 Adding the Flattenlayers 5.6 Adding Dense layers | GAYATHRI.M | Completed |

| | | | | |
|-----|------------------------|---|-------------|-------------|
| | | 5.7 Compiling the model 5.8 Fit and Save the model. | | |
| 6. | TEST THE MODEL | 6.1 Import the packages and save the model 6.2 Load the test image, pre-process it and predict it. | GAYATHRI.M | Completed |
| 7. | APPLICATION LAYER | Build the flask application and the HTML pages. | GAYATHRI.M | In-progress |
| 8. | TRAIN CNN MODEL ON IBM | 8.1 Train image classification model. 8.2 Register for IBM cloud. | GAYATHRI.M | In-progress |
| 9. | IDEATION PHASE | 9.1 Literature Review. 9.2 Empathy map. 9.3 Ideation. | ALL Members | Completed |
| 10. | PROJECT DESIGN PHASE-I | 10.1 Proposed Solution 10.2 Problem Solution Fit. 10.3 Solution Architecture | ALL Members | Completed |

| | | | | |
|-----|-----------------------------|--|-------------|-------------|
| 11. | PROJECTDESIGN PHASE-II | 11.1 Customer journey. 11.2 Functional requirement. 11.3 Data flow Diagrams. 11.4 Technology Architecture. | All Members | Completed |
| 12. | PROJECTPLANNING PHASE | 12.1 Prepare milestones and activity lists. 12.2 Sprint delivery plan. | All Members | In Progress |
| 13. | PROJECTDEVELOPMENT PHASE | 13.1 Project development-Delivery of Sprint-1. 13.2 Project development-Delivery of Sprint-2. 13.3 Project development-Delivery of Sprint-3. 13.4 Project development-Delivery of Sprint-4. | All Members | In Progress |