

## Project Planning Phase

### Project Planning (Milestone Activity List)

Date	19 October 2022
Team ID	PNT2022TMID10881
Project Name	Real-Time Communication System Using AI for Specially Abled
Maximum Marks	4 Marks

### ***MILESTONE***

Pre-Requisites	M-01	The following software concepts and packages, including Deep Learning, Python, CNN, Python Flask, IBM Cloudland DB, and Watson Studio, should have been familiar to us by the time we finished this project.	Yes
Project Structure	M-02	To create a project structure that must be adhered to when creating a conversation engine	Yes
Collection of Data	M-03	The dataset collection is separated into a train set and a test set in order to acquire data for image preprocessing. The training and testing procedures involve individually assembling the two files and putting them to the test.	Yes
Image Preprocessing	M-04	Importing the Image Data Generator libraries and utilizing its capabilities with the test set and training set	Yes
Model Building	M-05	The procedures include initialising the model, adding convolution layers, pooling layers, flatten layers, denser layers, compiling the model, fitting the data, and saving the model.	Yes
Test the model	M-06	Import the packages, save the model, load the test image, perform image pre-processing, and make predictions about it.	Yes

Application layer	M-07	Create the HTML pages and the flask application.	Yes
Train CNN model	M-08	Sign up for IBM Cloud and prepare the Image Classification Model.	Yes
Ideation Phase	M-09	Preparation of an empathy map, information gathering, literature review, and ideation	Yes
Project Design Phase-I	M-10	Problem-solution fit, solution architecture, and creation of the suggested solution	Yes
Project Design Phase-II	M-11	Preparation of the technological stack architecture, functional requirements, data flow diagrams, and customer journey mapping	Yes
Project Planning Phase	M-12	Create a sprint delivery plan, an activity list, and a milestone list.	Yes
Project Development Phase	M-13	Project Development for Sprints 1, 2, 3, and 4 is delivered	Yes

## ACTIVITY LIST

Activity Number	Activity	Sub Activity	Assigned To	Status
1.	<b>Pre-Requisites</b>		Kayalvizhi G Bhagavathi Sree V Gowshil Narmadha V Aishwarya R	Completed
2.	<b>PROJECT STRUCTURE</b>	Structure Brainstorming and Preparation	Gowshil Narmadha V Aishwarya R	Completed
3.	<b>Collection of Data</b>	Dataset download structure	Kayalvizhi G Bhagavathi Sree V	Completed
4.	<b>Image Preprocessing</b>	Import the Image Data Generate or Library and applying Image Data Generator Functionality to train set and test set.	Kayalvizhi G Bhagavathi Sree V Gowshil Narmadha V Aishwarya R	Completed

5	<b>Model Building</b>	Initializing of the model Adding Convolution Layers Pooling Layers Flatten and dense Layer	Kayalvizhi G Bhagavathi Sree V Gowshil Narmadha V Aishwarya R	Completed
6.	<b>Test of the Model</b>	Import the packages and save the model, Load the test image, pre-process it and predict it.	Bhagavathi Sree V Gowshil Narmadha V	In progress
7.	<b>Application Layer</b>	Build the flask application and the HTML pages	Kayalvizhi G Aishwarya R	In progress
8.	<b>Train of CNN model in IBM cloud</b>	Train image classification model and register for IBM cloud.	Gowshil Narmadha V  Aishwarya R	Completed
9.	<b>Ideation Phase</b>	Literature Review, Empathy map, Ideation of the project.	Kayalvizhi G Bhagavathi Sree V Gowshil Narmadha V Aishwarya R	Completed

10.	<b>Project Design Phase- 1</b>	Proposed Solution, Problem, Solution Fit and Solution Architecture	Kayalvizhi G Bhagavathi Sree V Gowshil Narmadha V Aishwarya R	Completed
11.	<b>Project Design Phase-2</b>	Customer journey, Functional requirement, Data flow Diagrams and Technology stack Architecture.	Kayalvizhi G Bhagavathi Sree V Gowshil Narmadha V Aishwarya R	Completed
12.	<b>Project Planning Phase</b>	Milestone preparation, activity lists and Sprintdelivery plan.	Kayalvizhi G Bhagavathi Sree V Gowshil Narmadha V Aishwarya R	Completed
13.	<b>Project Development Phase</b>	Project development-Delivery of Sprint-1. Project development-Delivery of Sprint-2.	Kayalvizhi G Bhagavathi Sree V Gowshil Narmadha V Aishwarya R	In Progress