

Project Planning Phase
Project Milestone & Activity List

Date	18October 2022
Team ID	PNT2022TMID44057
Project Name	Real-Time Communication System Powered by AI for Specially Abled
Maximum Marks	8 Marks

Milestone List:

Milestone Number	Milestone Name	Duration	Submission Dates
MN-01	Ideation Phase	3 Weeks	17 sep 2022
MN-02	Project Design Phase-1	2Weeks	01 oct 2022
MN-03	Project Design Phase-2	2Weeks	15 oct 2022
MN-04	Project Planning Phase	1Weeks	22 oct 2022
MN-05	Project Development Phase	1Weeks	18 nov 2022
MN-06	Project Structure & Data Collection	1Weeks	30 sep 2022 to 02 oct 2022
MN-07	Image Pre-Processing & Model Building	6Days	08 oct 2022 to 14 oct 2022
MN-08	Test the Model	2Days	20 oct 2022

Milestone Number	Milestone Name	Duration	Submission Dates
MN-09	Application Building	1Weeks	22 oct 2022
MN-10	Train CNN Model on IBM	2Days	30 oct 2022

Activity List:

Milestone Number	Activity Number	Activity Name	Description	Submission Dates
Sprint-1	AN-01	Pre-requisites	Install the required software, it's supporting packages and create a project development environment	30 sep 2022
	AN-02	Project Structure	Create the Project Structure for building Conversation Engine	02 oct 2022
	AN-03	Data Collection	Collect data for building the project.	04 oct 2022
Sprint-2	AN-04	Create Train and Test Folders	Create Train and Test folders with each folder having folders with images of different hand signs	06 oct 2022
	AN-05	Image Pre-Processing	We will pre-process the images which will be used for building the model	08 oct 2022
	AN-06	Import the required model building libraries & Initialize the model	Add packages containing the appropriate functions and other entities for constructing the model. To initialize the model parameters and choosing an optimization algorithm	10 oct 2022 to 12 oct 2022
Sprint-3	AN-07	Test the model	We test the model by passing an image to get predictions.	20 oct 2022
	AN-08	Import the packages and load the saved model.	Loading the user defined model to work for testing purpose.	21 oct 2022
	AN-09	Load the test image, pre-	P re-processing an input image and passing it into the	21 oct 2022

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		process it and predict	model to witness the predictions for the same.	
Sprint-4	<u>AN-10</u>	Application Building	We will be building a Flask application that is used for building our UI which in backend can be interfaced to the model to get predictions	22 oct 2022
	AN-11	Build a flask application.	<ul style="list-style-type: none"> • Load the required packages. • Initialize graph, load the model, initialize the flask app and load the video. Graph element is required to work with Tensorsflow. • Configure the home page 	24 oct 2022
	AN-12	Build the HTML page.	Build an HTML page to display the processed video on the screen, so that the person can show signs which can be detected.	26 oct 2022
	AN-13	Register on IBM cloud	We need to register for IBM Cloud to access the service.	28 oct 2022
	AN-14	Train CNN Model on IBM	<ul style="list-style-type: none"> • Train your model on IBM Cloud. • Store your Model on IBM Cloud. • Download the Stored model to the Local system 	30 oct 2022
Final Deliverables	AN-15	Project Submission	Final submission of model & testing. Submit All the Sprint.. Run the web app application and testing. Finally submit the code.	19 Nov 2022