

**Project Planning Phase**  
**Project Planning Template(Milestone & Activity List)**

Date	31 October 2022
Team ID	PNT2022TMID27182
Project Name	Real-Time Communication System Powered by AI for Specially Abled

Milestone No.	Milestone	Task Description	Milestone status
<b>Milestone 1</b>	<b>Ideation Phase</b>		
	Literature survey on selected project and Information gathering	We must acquire the pertinent data for the project use case in this activity and consult any current solutions, technical papers, research publications, etc.	Completed
	Problem Statement	About the issue that clients are having And the remedy we are proposing.	Completed
	Prepare Empathy Map	In this task, we must set up the empathy map canvas to record the user's gains and pains. List possible problem statements.	Completed
	Ideation	In this activity, we are expected to list the ideas (at least 4 per team member) by organizing the brainstorming session and prioritize the top 3 ideas based on their feasibility & importance.	Completed
<b>Milestone 2</b>	<b>Project Design Phase -I</b>		
	Proposed Solution	We are required to create a proposed solution document for this project that details the novelty, viability of the concept, business strategy, social impact.	Completed

		scalability of the solution, etc.	
	Problem Solution Fit	We are required to create a problem-solution-fit document for this task and submit it for approval.	Completed
	Solution Architecture	We are required to create a solution architecture paper for this activity and submit it for review.	Completed
<b>Milestone 3</b>	<b>Project Design Phase - II</b>		
	Customer Journey	Prepared the customer journey maps to understand the user interactions & experiences with the application (entry to exit).	Completed
	Functional Requirement	We are expected to create the functional requirement document in this activity.	Completed

	Data Flow Diagrams	We are asked to generate the data flow diagrams for this activity and submit them for evaluation.	Completed
	Technology Architecture	In this activity, we are expected to draw the technology architecture diagram.	Completed
<b>Milestone 4</b>	<b>Project Planning Phase</b>		
	Prepare Milestone & Activity List	In this activity, we are expected to prepare the milestones & activity list of the project.	Completed
	Sprint Delivery Plan	In this activity, we are expected to prepare the sprint delivery plan.	In Progress
<b>Milestone 5</b>	<b>Project Development Phase</b>		
	Development of Sprint 1,2,3,4	In this milestone, we will start the project development and expect to perform the coding & solutions, acceptance testing, and performance testing based on the sprint and submit them.	In Progress
<b>Milestone 6</b>	<b>Data Collection</b>	In order to create our project, we will be gathering data in this. Two folders, one for training and the other for testing, will be created. Photographs from the training folder will be used to create the model, and images from the testing folder will be used to verify our model..	
<b>Milestone 7</b>	<b>Image Preprocessing</b>	In this, we will pre-process the images which will be	

		used for building the model. Image pre-processing includes zooming, shearing, and flipping to increase the robustness of the model after it is built. We will be using the Keras package for pre-processing images.
<b>Milestone 8</b>	<b>Model Building</b>	initialization, addition of convolutional layers, and layer pooling Full connecting layers and layer flattening
<b>Milestone 9</b>	<b>Test The Model</b>	Now we run a model test by feeding it a picture and asking for predictions. When testing the model, we must ensure that the test image is the intended size for the model, that its dimensions are correct, and that it has undergone scaling before being sent to the model..
<b>Milestone 10</b>	<b>Application Building</b>	In order to develop our UI and connect with the model in the backend to obtain predictions, we will now build a Flask application. An HTML page is needed for the frontend of a Flask application, and a Python file is needed for the backend, which handles the model interface.