**Project Planning Phase**

**Project Planning Template (Milestone Activity)**

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| --- | --- |
| Date | 16 November 2022 |
| Team ID | PNT2022TMID06547 |
| Project Name | Real-Time Communication System Powered by AI for Specially Abled |

**Milestone Activity Plan**

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| --- | --- | --- | --- |
| **Milestone** | **Functional**  **Requirement (Epic)** | **Milestone**  **Story**  **Number** | **Milestone Story / Task** |
| Milestone 1 | Data Collection | M1 | We're collecting dataset for building our project and creating two folders, one for training and another one for testing. |
| Milestone 2 | Image Preprocessing | M2 | Importing image data generator libraries and applying image data generator functionality to train the test set. |
| Milestone 3 | Building Model | M3 | 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. |
| Milestone 4 | Testing Model | M4 | Import the packages first. Then we save the model and Load the test image, preprocess it and predict it. |
| Milestone 5 | Application Layer | M5 | Build the flask application and the HTML pages. |
| Milestone 6 | Train Conversation Engine | M6 | Register for IBM Cloud and train Image Classification Model |
| Milestone 7 | Final Result | M7 | To ensure all the activities and resulting the final output. |

# MILESTONE ACTIVITY PLAN

**Final**

**Result**

Ensure all

activities &

getting final

output

**Image**

**preprocessing**

**Model**

**Building**

**Application**

**layer**

**Train CNN**

**model**

Collecting

dataset for

building

project

Importing

the

image

libraries

Importing

the

model

building

libraries

Load the test

model image,

preprocessing

and

predict

it.

Building

flask

application

Register for

train image

classification

**Data**

**Collection**

Machine

Learning,

CNN &

RNN

JAVA &

PYTHON

MySQL

&

NoSQL

**Testing the**

**model**

**Real**

**-**

**Time**

**Communication**

**System**

**Powered**

**by**

**AI**

**for**

**Specially**

**Abled**

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