MILESTONE AND ACTIVITY LIST

Date	22 October 2022
Team ID	PNT2022TMID24925
Project Name	Virtualeye-Life Guard For Swimming pools To Detect Active Drowning
Maximum Marks	4 Marks

MILESTONE

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 Image Data Generator Functionality to train set and testset	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

ACTIVITY LIST

Activity Number	Activity	Sub Activity	Assigned To	Status
1.	PRE-REQUISITES		All Members	Completed
2.	PROJECT STRUCTURE		All Members	Completed
3.	DATA COLLECTION	3.1 Download the Dataset	All Members	Completed
4.	IMAGE PREPROCESSING	4.1 Import the ImageDataGenerator Library. 4.2 Applying ImageDataGenerator Functionality to train set and testset.	All Members	Completed

5.	MODEL BUILDING	5.1 Importing the model building libraries. 5.2 Initializing the model. 5.3 Adding Convolution layers 5.4 Adding the Pooling layers 5.5 Adding the Flatten layers 5.6 Adding Dense layers	All Members	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.	All Members	In progress

7.	APPLICATION LAYER	Build the flask application and the HTML pages.	All Members	In-progress
8.	TRAIN CNN MODEL ON IBM	8.1 Train image classification model. 8.2 Register for IBM cloud.	All Members	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.	PROJECT DESIGN PHASE -II	11.1 Customer journey. 11.2 Functi onal requirement. 11.3 Data flow Diagrams. 11.4 Techno logy Architecture.	All Members	Completed
12.	PROJECT PLANNING PHASE	12.1 Prepare milestones and activity lists. 12.2 Sprint delivery plan.	All Members	Completed
13.	PROJECT DEVELOP MENT 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