

## Project Planning Phase

### Milestone and Activity List

|              |  |
|--------------|--|
| Date         | 22 October 2022  |
| Team ID      | PNT2022TMID39569   |
| Project Name | Real time communication system powered by AI for specially abled |

#### Milestone and Activity List:

| S.No | Milestone           | Activities   | Team Members   |
|------|---------------------|--|--|
| 1.   | Data Collection     | Create Train and Test Folders                                | G.Harish Kumar<br>B.Mohamed Waseem<br>R.Kamalesh                               |
| 2.   | Image Preprocessing | Import ImageDataGenerator Library and Configure it           | G.Harish Kumar<br>B.Mohamed Waseem<br>R.Kamalesh<br>R.Kishore Kumar<br>J.Ajith |
| 3.   | Image Preprocessing | Apply ImageDataGenerator functionality to Train and Test set | G.Harish Kumar<br>B.Mohamed Waseem<br>R.Kamalesh                               |
| 4.   | Model Building      | Import the required model building libraries                 | R.Kishore Kumar<br>J.Ajith   |
| 5.   | Model Building      | Initialize the model   | G.Harish Kumar<br>B.Mohamed Waseem<br>R.Kamalesh                               |
| 6.   | Model Building      | Add the convolution layer                                    | R.Kishore Kumar<br>J.Ajith   |
| 7.   | Model Building      | Add the pooling layer  | R.Kishore Kumar<br>J.Ajith   |
| 8.   | Model Building      | Add the flatten layer  | R.Kishore Kumar<br>J.Ajith   |
| 9.   | Model Building      | Adding the dense layers                                      | G.Harish Kumar<br>B.Mohamed Waseem<br>R.Kamalesh                               |
| 10.  | Model Building      | Compile the model  | R.Kishore Kumar<br>J.Ajith   |
| 11.  | Model Building      | Fit and save the model                                       | G.Harish Kumar<br>B.Mohamed Waseem<br>R.Kamalesh                               |
| 12.  | Test the model      | Import the packages and load the saved model                 | G.Harish Kumar<br>B.Mohamed Waseem<br>R.Kamalesh<br>R.Kishore Kumar            |

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|-----|------------------------|---|--|
|     |                        |   | J.Ajith  |
| 13. | Test the model         | Load the test image, pre-process it and predict | G.Harish Kumar<br>B.Mohamed Waseem<br>R.Kamalesh<br>R.Kishore Kumar<br>J.Ajith |
| 14. | Application Building   | Build a flask application                       | G.Harish Kumar<br>B.Mohamed Waseem<br>R.Kamalesh<br>R.Kishore Kumar<br>J.Ajith |
| 15. | Application Building   | Build the HTML page                             | G.Harish Kumar<br>B.Mohamed Waseem<br>R.Kamalesh<br>R.Kishore Kumar<br>J.Ajith |
| 16. | Application Building   | Output  | G.Harish Kumar<br>B.Mohamed Waseem<br>R.Kamalesh<br>R.Kishore Kumar<br>J.Ajith |
| 17. | Train CNN Model on IBM | Register for IBM Cloud                          | G.Harish Kumar<br>B.Mohamed Waseem<br>R.Kamalesh<br>R.Kishore Kumar<br>J.Ajith |
| 18. | Train CNN Model on IBM | Train Image Classification Model                | G.Harish Kumar<br>B.Mohamed Waseem<br>R.Kamalesh<br>R.Kishore Kumar<br>J.Ajith |