**Project Planning Phase**

**Milestone and Activity List**

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| Date | 03-11-2022 |
| Team ID | PNT2022TMID41786 |
| Project Name | Real time communication system powered by AI for specially abled |

**Milestone and Activity List:**

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| **S.No** | **Milestone** | **Activities** | **Team Members** |
| 1. | Data Collection | Create Train and Test Folders. | M.Natrajan  S.Suman. |
| 2. | Image Preprocessing | Import  Image Data Generator  Library and Configure it. | S.Kaviyarasan  P.Thiruchelvan  M.Natrajan  S.Suman |
| 3. | Image Preprocessing | Apply  Image Data Generator functionality to Train and Test set | S.Kaviyarasan  P.Thiruchelvan  M.Natrajan |
| 4. | Model Building | Import the required model building libraries | M.Natrajan  S.Suman |
| 5. | Model Building | Initialize the model | S.Kaviyarasan  P.Thiruchelvan  M.Natrajan  S.Suman |
| 6. | Model Building | Add the convolution layer | S.Kaviyarasan  S.Suman |
| 7. | Model Building | Add the pooling layer | S.Kaviyarasan  P.Thiruchelvan  M.Natrajan  S.Suman |
| 8. | Model Building | Add the flatten layer | M.Natrajan  S.Suman |
| 9. | Model Building | Adding the dense layers | S.Kaviyarasan  S.Suman |
| 10. | Model Building | Compile the model | S.Kaviyarasan  P.Thiruchelvan |
| 11. | Model Building | Fit and save the model | S.Kaviyarasan  P.Thiruchelvan  M.Natrajan  S.Suman |
| 12. | Test the model | Import the packages and load the saved model | S.Kaviyarasan  P.Thiruchelvan  M.Natrajan  S.Suman |
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| 13. | Test the model | Load the test image, preprocess it and predict | S.Kaviyarasan  P.Thiruchelvan  M.Natrajan  S.Suman |
| 14. | Application Building | Build a flask application | S.Kaviyarasan  P.Thiruchelvan  M.Natrajan  S.Suman |
| 15. | Application Building | Build the HTML page | S.Kaviyarasan  P.Thiruchelvan  M.Natrajan  S.Suman |
| 16. | Application Building | Output | S.Kaviyarasan  P.Thiruchelvan  M.Natrajan  S.Suman |
| 17. | Train CNN Model on IBM | Register for IBM Cloud | S.Kaviyarasan  P.Thiruchelvan  M.Natrajan  S.Suman |
| 18. | Train CNN Model on IBM | Train Image  Classification Model | S.Kaviyarasan  P.Thiruchelvan  M.Natrajan  S.Suman |