**Project Planning Phase**

**Milestone and Activity List**

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| Date | 17 November 2022 |
| Team ID | PNT2022TMID7956 |
| Project Name | Project - Digital naturalist AI enabled tool for biodiversity researchers |

**Milestone and Activity List:**

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| **S. No.** | **Milestone** | **Activities** | **Team Members** |
| 1. | Data Collection | Downloading the Data  Data Augmentation | A.Jagadeswaran  K.Jeeva  R.Bhuvan Kumar |
| 2. | Image Pre-processing | Import the necessary  Library and configure | R.Bhuvan Kumar |
| 3. | Image Pre-processing | Apply Image-Data Generator functionality to Train and Test set | R.Bhuvan Kumar  A.Jagadeswaran |
| 4. | Model Building | Import the required model building libraries | R.Bhuvan Kumar  K.Jeeva |
| 5. | Model Building | Initialize the model | G.Janarthanan  R.Bhuvan Kumar |
| 6. | Model Building | Add the convolution layer | R.Bhuvan Kumar  G.Janarthanan |
| 7. | Model Building | Add the pooling layer | G.Janarthanan  R.Bhuvan Kumar |
| 8. | Model Building | Add the flatten layer | G.Janarthanan  R.Buvan Kumar |
| 9. | Model Building | Adding the dense layers | G.Janarthanan  R.Buvan Kumar |
| 10. | Model Building | Compile the model | G.Janarthanan  R.Buvan Kumar |
| 11. | Model Building | Fit and save the model | G.Janarthnan  R.Bhuvan Kumar  A.Jagadeswaran |

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| 12 | Test the model | Import the packages and load and save the model. | G.Janarthnan  R.Bhuvan Kumar |
| 13 | Test the model | Load the image, pre-process and predict it. | G.Janarthnan  R.Bhuvan Kumar |
| 14 | Application building | Build a flask application | R.Bhuvan Kumar |
| 15 | Application building | Build the HTML page | A.Jagadeswaran  K.Jeeva |
| 16 | Application building | output | A. Jagadeswaran  K.Jeeva |
| 17 | Train CNN model on IBM | Register for IBM cloud | A.Jagadeswaran  R.Bhuvan Kumar  G.Janarthanan  K.Jeeva |
| 18 | Train CNN model on IBM | Train image  Classification model | G.Janarthanan |