**ProjectPlanningPhase**

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| **Date** | 22.10.2022 |
| **TeamID** | PNT2022TMID42037 |
| **ProjectName** | Efficient Water Quality Analysis and Prediction using Machine Learning |

**ProjectBacklog,SprintSchedule,andEstimation:**

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| --- | --- | --- | --- | --- | --- | --- |
| **spri**  **nt** | **Functional**  **Requirement(Epic)** | **User**  **story/Number** | **Userstory/Task** | **Sto**  **ryp**  **oin**  **t** | **priority** | **Team**  **Members** |
| Sprin-1 | Dataprocessing | USN-1 | Itisfairlypossibletogetthedatasetweneedontheinternetbutinthisproject,wewillbecreatingthe  datasetonourown.  . | 2 | High | Kaviyarasan |
| Sprin-1 | CNNonthe  captured | USN-2 | Thedatausing  andtestsetdata,and  eachofthenamesofthe  numberfolderswillbethe  classnamesfortheimgs  loaded.  ImageDataGeneratorofkerasthroughwhichwe  canusethe  flowfromdirectory  functiontoloadthetrain | 2 | High | Rabin |
| Sprin-1 | Gesture | USN-3 | Aboundingboxfor  detectingtheROIand  calculatethe  accumulatedavgaswe  didincreatingthedataset.  Thisisdonefor  identifyingany  foregroundobject. | 1 | Low | vivek |
| Sprin-2 | Predictingthedata | USN-4 | Theloadthe  previouslysaved  modelusing  keras.models.loadm  \_  odelandfeedthe  thresholdimageof  theROIconsistingof  thehandasaninput  tothemodelfor  prediction. | 2 | High | anbarasu |

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| Sprin-3 | Machinelearning | USN-5 | sThisisaninteresting  machinelearningpythonprojecttogainexpertise.Thiscanbefurther  extendedfordetectingtheEnglishalphabets. | 2 | High | vigneshwaran |
| Sprin-4 | Dashbord | USN-6 | Theexploredandgestureorgifaredisplayedin  dashboard | 2 | High | kaviyarasan |