ProjectPlanningPhase

**ProjectPlanningTemplate(ProductBacklog,SprintPlanning,Stories,Storypoints)**

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| Date | 19November2022 |
| TeamID | PNT2022TMID47097 |
| ProjectName | Deep learning Fundus Image Analysis for Early Detection of Diabetic Retinopathy |
| MaximumMarks | 4 Marks |

# ProductBacklog,SprintSchedule,andEstimation(4Marks)

Usethebelowtemplatetocreateproductbacklogandsprintschedule

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| **Sprint** | **FunctionalRequirement(Epic)** | **User StoryNumber** | **UserStory/Task** | **StoryPoints** | **Priority** | **TeamMembers** |
| Sprint-1 | Datacollection | Task-1 | TobuildaDeeplearningModelwhichbeginswiththeprocessofsplittingdataintotraining  andtestingset. | 4 | Medium | Deepa K,  Saranya B |
| Sprint-1 | Datapreprocessing | Task-2 | We import the required libraries forpreprocessing. We instantiate theImageDataGeneratorclasstoconfigureandaugmentdifferenttypesofimagedata. | 5 | Low | Anuseetha V,  Dayana S |
| Sprint-1 | DataPreprocessing | Task-3 | ApplicationoftheImageDataGeneratortotheTrainandTestSet. | 7 | Medium | Dayana S,  Deepa K |
| Sprint-1 | BuildingHomepage | USN-1 | Asauser,Theywillbegivenabriefdescriptioninthehomepage. | 4 | Low | Deepa K,  Anuseetha V |
| Sprint-2 | FeatureExtraction | Task-4 | BuildaCNNModelandonlyuseitasafeature  extractionbyfreezingtheconvolutionblocks. | 8 | High | Anuseetha V,  Deepa K,  Saranya B |
| Sprint-2 | Buildingthelayers | Task-5 | AddingofdenselayerswiththeaidofKeras.AdditionofOptimizer,choosinglossfunction  andtheMetrics. | 7 | High | Dayana S,  Saranya B |
| Sprint-2 | Train,Save,Test | Task-6 | Totrainthemodelwiththeconfiguredneuralnetwork and save the model. Test the builtmodelagainstthetestingdataset. | 3 | High | Deepa K,  Saranya B |
| Sprint-2 | BuildingRegistration  Page | USN-2 | Asauser,shewillbeabletoregisterforthe  application. | 2 | Low | Anuseetha V,  Dayana S,  Deepa K |

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| **Sprint** | **Functional**  **Requirement(Epic)** | **UserStory**  **Number** | **UserStory/Task** | **StoryPoints** | **Priority** | **TeamMembers** |
| Sprint-3 | Create ServiceInstance | Task-7 | Configurethelocationofresources,suchasweb server, and Cloud Storage for anapplication | 7 | High | Deepa K,  Dayana S,  Saranya B |
| Sprint-3 | Configuringcredentialsand  creatingDB | Task-8 | Define the credentials that are required toaccesstheservicesofferedbyIBMCloudant  andadduserstoaccesstheDB. | 6 | High | Anuseetha V,  Dayana S |
| Sprint-3 | CreateTablesinDB | Task-9 | StructuretherequiredtableswithnecessaryattributesinCloudantDB. | 4 | Medium | Anuseetha V |
| Sprint-3 | BuildingLoginPage | USN-3 | Asauser,shewillbeabletologinusinghercredentials. | 3 | Low | Deepa K,  Dayana S |
| Sprint-4 | Buildingprediction  page | USN-4 | Asauser,shewillbeabletoreceivethe  diagnosisonherdiabeticretinopathy. | 2 | Medium | Anuseetha V  Dayana S |
| Sprint-4 | BuildingLogoutPage | USN-5 | Asauser,shewillbeabletologoutofheraccountinthispage. | 2 | Medium | Deepa K,  Saranya B |
| Sprint-4 | Buildpythoncode | Task-9 | ImportthelibrariesandInitialisethenecessary  modules | 1 | Medium | Saranya B,  Anuseetha V |
| Sprint-4 |  | Task-10 | UsethedatabaseusinginitiatedclientandrenderingHTMLpages | 2 | Medium | Dayana S,  Deepa K |
| Sprint-4 |  | Task-11 | Configuringtheregistration,loginpagesand  validatingthecredentials. | 2 | Medium | Anuseetha V,  Deepa K,  Saranya B |
| Sprint-4 |  | Task-12 | Showcasingthemodel’spredictiononUI. | 1 | High | Dayana S,  Saranya B |
| Sprint-4 | Runtheapplication. | Task-13 | Runtheapplicationintheanacondapromptto  checktheapplication. | 2 | High | Anuseetha V,  Saranya B |
| Sprint-4 |  | Task-14 | In the homepage, after logging on usingcredentials,uploadtheimagetopredictthediagnosisondiabeticretinopathy. | 5 | High | Anuseetha V,  Dayana S,  Deepa K |
| Sprint-4 | TrainModelOnIBM | Task-15 | trainthemodelonIBMandintegrateitwiththe  flaskApplication. | 3 | High | Deepa K,  Saranya B |