**Project Planning Phase**

**Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)**

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| Date | 25 October 2022 |
| Team ID | PNT2022TMID34081 |
| Project Name | Project – Deep Learning Fundus Image Analysis for Early Detection of Diabetic Retinopathy. |
| Maximum Marks | 8 Marks |

**Product Backlog, Sprint Schedule, and Estimation (4 Marks)**

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| **Sprint** | **Functional**  **Requirement (Epic)** | **User**  **Story**  **Number** | **User Story / Task** | **Story**  **Point s** | **Priority** | **Team**  **Members** |
| Sprint -1 | Data Collection | Download  the dataset | Downloading the dataset. | 3 | High | Abitha,  Abirami,  Affna,  Ashini. |
| Sprint -1 | Data Collection | Create Training and  Test | Create a Training and the Path Test. | 2 | High | Abitha,  Abirami,  Affna,  Ashini |
| Sprint1 | Data Pre-processing | Importing the Libraries. | Imported in the Library. | 3 | Medium | Abitha,  Abirami,  Affna,  Ashini |

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| **Sprint** | **Functional**  **Requirement (Epic)** | | **User**  **Story**  **Number** | **User Story / Task** | **Story**  **Point s** | | | **Priority** | | **Team**  **Member**  **s** |
| Sprint -1 | Data Pre-Processing | Configure Image Data Generator Class. | | Configuration is done for image Data Generator class. | | 2 | High | | Abitha  Abirami,  Affna,  Ashini | |
| Sprint -1 | Data Pre-Processing | Apply Image Data Generator Functionality to Train Set and Test Set. | | Applying the Image Data Generator Functionality to Train Set and Test Set, | | 3 | High | | Abitha  Abirami,  Affna,  Ashini | |
| Sprint -1 | Model Building | Pre-Trained CNN Model as a Feature Extractor. | | CNN Model is Pre-Trained as a Feature Extractor. | | 2 | High | | Abitha  Abirami,  Affna,  Ashini | |
| Sprint-  1    Sprint-1  Sprint-2  Sprint-2 | Model Building  Model Building  Model Building  Model Building | | Adding Dense Layers.  Configure The Learning Process.  Train the Model  Save the Model | Dense Layers are added.  Configuration is Done for learning process  The Model is Trained.  The Model is Saved. | 3  2  3  2 | | | High  High  High  High | | Abitha,  Abirami  Affna,  Ashini  Abitha,  Abirami  Affna,  Ashini.  Abitha,  Abirami  Affna,  Ashini  Abitha,  Abirami  Affna,  Ashini. |
| Sprint-2  Sprint-2  Sprint-2  Sprint-2  Sprint-2 | Create Cloud ant DB  Create Cloud ant DB.  Create Cloud ant DB.  Create  Cloud ant DB.  Create Clout ant DB. | | Register &Login to IBM Cloud  Create Service Instance  Create Service Credentials.  Launch Cloud ant DB.  Create Database. | Registering and Login Process is done in IBM cloud.  Service Instance is Created.  Service Credentials are Created.  Cloud ant DB is Launched.  Database is Created. | 3  2  3  2  5 | | | High  High  High  High  High | | Abitha,  Abirami  Affna,  Ashini.  Abitha,  Abirami  Affna,  Ashini.  Abitha,  Abirami  Affna,  Ashini.  Abitha,  Abirami  Affna,  Ashini  Abitha,  Abirami  Affna,  Ashini |
|  |  | |  |  |  | | |  | |  |
| Sprint-3  Sprint-3  Sprint -3  Sprint-3  Sprint-3  Sprint-3  Sprint-3  Sprint-3  Sprint-4  Sprint-4  Sprint-4  Sprint-4  Sprint-4  Sprint-4  Sprint-4  Sprint-4  Sprint-4  Sprint-4  Sprint-4  Sprint-4 | Application Building  Application Building  Application Building  Train the Model On IBM.  Train the Model On IBM.  Ideation Phase  Ideation Phase  Ideation Phase  Project design phase-1  Project design phase -1  Project Design Phase-1  Project Design Phase-1  Project Design Phase-2  Project Design phase-2  Project Design phase-2  Project Design phase-2  Project Planning Phase  Project development phase  Project development phase  Project development phase | | Building Html Pages.  Build Python Code  Run the Application  Register for IBM Cloud.  Train model on IBM.  Literature Survey on the Selected Project& Information gathering  Prepare empathy map  Ideation  Proposed Solution  Problem Solution Fit  Solution Architecture.  Customer Journey  Functional Requirement  Data flow Diagrams  Technology Architecture  Prepare Milestone &Activity List.  Project Development Delivery of Sprint-1  Project Development Delivery of Sprint-2  Project Development Delivery of Sprint-3  Project Development Delivery of Sprint-4 | The HTML pages are building  The Python Code is Building  It is runs them application  IBM cloud is Registered.  Model is trained on IBM  Literature Survey is Created on the Selected project and Information is Gathered.  Empathy Map is Prepared.  Ideation phase is Prepared.  The Solution is proposed  The problem is solved as Solution fit.  Solution architecture is designed.  Customer journey is prepared.  Functional requirement is required.  Data flow diagrams are Drawn  Technology Architecture is designing  Milestone and Activity list is prepared.  Project development of sprint 1 is delivered  Project development of sprint 2 is delivered  Project development of sprint 3 is delivered  Project development of sprint 4 is delivered | 2  3  2  3  2  3  2  3  1  1  1  1  2  2  2  2  2  2  2  2 | | | High  High  High  High  High  High  High  High  High  High  High  High  High  High  High  High  High  High  High  High | | Abitha,  Abirami  Affna,  Ashini  Abitha,  Abirami  Affna,  Ashini  Abitha,  Abirami  Affna,  Ashini  Abitha,  Abirami  Affna,  Ashini  Abitha,  Abirami  Affna,  Ashini  Abitha,  Abirami  Affna,  Ashini  Abitha,  Abirami  Affna,  Ashini  Abitha,  Abirami  Affna,  Ashini  Abitha,  Abirami  Affna,  Ashini  Abitha,  Abirami  Affna,  Ashini  Abitha,  Abirami  Affna,  Ashini  Abitha,  Abirami  Affna Ashini  Abitha,  Abirami  Affna,  Ashni  Abitha,  Abirami  Affna,  Ashini  Abitha,  Abirami  Affna,  Ashini  Abitha,  Abirami  Affna,  Ashini  Abitha,  Abirami  Affna,  Ashini  Abitha,  Abirami  Affna,  Ashini  Abitha,  Abirami  Affna,  Ashini  Abitha,  Abirami  Affna,  Ashini |

**Project Tracker, Velocity & Burndown Chart: (4 Marks)**

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| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Total**  **Story**  **Points** | **Duration** | **Sprint**  **Start**  **Date** | **Sprint**  **End Date**  **(Planned)** | **Story Points**  **Completed**  **(as on**  **Planned End**  **Date)** | **Sprint**  **Release Date**  **(Actual)** |
| Sprint1 | 20 | 7 Days | 24 Oct  2022 | 30 Oct  2022 | 20 | 31 Oct  2022 |
| Sprint2 | 20 | 7 Days | 31 Oct  2022 | 06 Nov  2022 | 20 | 07 Nov  2022 |
| Sprint3 | 20 | 7 Days | 07 Nov  2022 | 13 Nov  2022 | 20 | 14 Nov  2022 |
| Sprint4 | 20 | 7 Days | 14 Nov  2022 | 20 Nov  2022 | 20 | 21 Nov  2022 |
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**Velocity:**

To calculate the team’s average velocity (AV) per iteration unit

𝐴𝑣 =𝑉𝑒𝑙𝑜𝑐𝑖𝑡𝑦 /𝑆𝑝𝑟𝑖𝑛𝑡 𝑑𝑢𝑟𝑎𝑡𝑖𝑜𝑛

Where,

Average Velocity - Story points per day Sprint duration - Number of days (Duration) for Sprints Velocity - Points per Sprint

𝐴𝑣 =20/8= 2.05

# Average Velocity is 3 points per Sprint

**Burndown Chart:**

