Project Planning Phase

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

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| Date | 24 October 2022 |
| Team ID | PNT2022TMID52122 |
| Project Name | VirtualEye- Life Guard for Swimming Pools to Detect Active Drowning |
| Maximum Marks | 4 Marks |

Prepare Milestone and Activity List Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Use the below template to create product backlog and sprint schedule

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| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Functional Requirement**  **(Epic)** | **User Story**  **Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| Sprint-1 | Registration | VLGFSP-1 | As a user, I can register for the application by entering my email, password, and confirmingmy password. | 2 | High | Bharat |
| Sprint-1 | Registration | VLGFSP-2 | As a user, I will receive confirmation email onceI have registered for the application | 1 | High | Deepa |
| Sprint-1 | Registration | VLGFSP -3 | As a user, I can register for the  applicationthrough Facebook | 2 | Low | Arockia Anna Vinisha |
| Sprint-1 | Registration | VLGFSP -4 | As a user, I can register for the applicationthrough Gmail | 2 | Medium | Abisha Rose |
| Sprint-1 | Login | VLGFSP -6 | As a user, I can log into the application byentering email &  password | 1 | High | Bharat |
| Sprint-2 | Dataset Collect | VLGFSP -11 | Collect number of datasets and get accuracy | 2 | Medium | Deepa |
| Sprint-2 | Pre-processing | VLGFSP -12 | The dataset is extracted | 2 | High | Arockia Anna Vinisha |
| Sprint-2 | Train the model | VLGFSP -13 | Train the model. | 4 | High | Abisha Rose |

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| **Sprint** | **Functional**  **Requirement (Epic)** | **User**  **Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| Sprint-2 | Test the model | VLGFSP -14 | Test the model | 6 | High | Bharat |
| Sprint-3 | Detection | VLGFSP -15 | Load the trained model. | 3 | High | Deepa |
| Sprint-3 | Detection | VLGFSP -16 | Identify the person by collecting real-time data  through a webcam. | 5 | Medium | Arockia Anna Vinisha |
| Sprint-3 | Detection | VLGFSP -16 | classify it by using a trained model to predictthe output | 8 | High | Abisha Rose |
| Sprint-4 | Detection | VLGFSP -17 | If person is drowning, the system will ring an alarm to give signal | 7 | High | Arockia Anna Vinisha |
| Sprint-4 | Detection | VLGFSP -18 | As a User,I can detect the drowning person. | 3 | Medium | Bharat |
| Sprint-4 | Logout | VLGFSP -19 | As a User,I can logout the application. | 2 | Low | Deepa |

Sprint Delivery Plan

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)** |
| Sprint-1 | 8 | 6 Days | 24 Oct 2022 | 29 Oct 2022 | 6 | 29 Oct 2022 |
| Sprint-2 | 14 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 12 | 05 Nov 2022 |
| Sprint-3 | 16 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 11 | 12 Nov 2022 |
| Sprint-4 | 12 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 12 | 19 Nov 2022 |

Velocity:

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let’s calculate the team’s average velocity (AV) per iteration unit (story points per day)

For Sprint-1 the Average Velocity (AV) is: AV = Sprint Duration / velocity = 8 / 6 = 1.3V For Sprint- 2 the Average Velocity (AV) is: AV = Sprint Duration / velocity = 14 / 6 = 2.3V For Sprint-3 the Average Velocity (AV) is: AV = Sprint Duration / velocity = 16 / 6 = 2.6V For Sprint-4 the Average Velocity (AV) is: AV = Sprint Duration / velocity = 12/ 6 = 2.0V TOTAL TEAM AVERAGE VELOCITY = 2.08

Burndown Chart: A burn down chart is a graphical representation of work left to do versus time. It is often used in agile [software](https://www.visual-paradigm.com/scrum/what-is-agile-software-development/)

[development](https://www.visual-paradigm.com/scrum/what-is-agile-software-development/) methodologies such as [Scrum.](https://www.visual-paradigm.com/scrum/scrum-in-3-minutes/) However, burn down charts can be applied to any project containing measurable progress over time.

