

Project Planning Phase

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

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|---------------|-------------------------------------------------------------|
| Date | 18th October 2022 |
| Team ID | PNT2022TMID35857 |
| Project Name | Real-Time River Water Quality monitoring and control system |
| Maximum Marks | 8 Marks |

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

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|----------|---------------------------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------|--------------|----------|-------------------------------------------|
| Sprint-1 | Mobile UI | USN-1 | As a user,I can study the river water quality by registering into Mobile app | 10 | High | Gokul Ram S, Ajay S |
| Sprint-1 | Secure Login | USN-2 | As a user, I can login into App securely and my login credentials are securely stored in database | 5 | High | Gokul Ram S, Ajay S,Vinodhini R |
| Sprint-1 | Alerting Authority | USN-3 | As a user, I can alert the authority by sending mail or SMS | 5 | Medium | Ajay S,Rajkumar S |
| Sprint-2 | Quick delivery of sensor values | USN-4 | As a user, I can get the data values without any latency | 20 | Medium | Gokul Ram S Vinodhini R |
| Sprint-3 | Login | USN-5 | As a administrator,I should maintain a database for all users | 5 | Low | Gokul Ram S,Ajay S |
| Sprint-3 | Dashboard | USN-6 | As a user,I can analyse the sensor data using charts in Web App Dashboard | 15 | Low | Vinodhini R Rajkumar S |
| Sprint-4 | Monitoring | USN-7 | For Real-Time water quality monitoring, messages are immediately send to concerned authorities when parameters cross threshold. | 10 | Medium | Gokul Ram S,Ajay S Vinodhini R,Rajkumar S |
| Sprint-4 | Accurate | USN-8 | As a user,I can get accurate results. | 10 | High | Ajay S,Vinodhini R Rajkumar S |

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

| 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 | 20 | 6 Days | 24 Oct 2022 | 29 Oct 2022 | 20 | 29 Oct 2022 |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 20 | 05 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 20 | 12 Nov 2022 |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 20 | 19 Nov 2022 |

Velocity:

$$AV = \frac{\textit{sprint duration}}{\textit{velocity}} = \frac{20}{10} = 2$$

Burndown Chart:

