Sprint 4 Planning Document

Sprint Duration: 12th February 2025 - 23rd February 2025

Total Story Points: 18 (Each member: 3 story points, Total members: 6)

## Sprint Goals & Objectives

The primary objective of this sprint is to enhance application functionality by completing feature development, backend unit testing, documentation, and integrating necessary DevOps tools for monitoring and logging.

## Sprint Backlog

### 1. Feature Development:

- Wednesday's Wicked Adventure home page is functional.

- Park booking system is implemented and working.

- Bookings are stored in the cart successfully.

- Users can proceed from cart to payment module.

### 2. Backend Development & Testing:

- Backend unit test cases for booking module (admin and user) achieve 80%+ coverage.

### 3. DevOps Integration:

- SonarQube integrated with CI pipeline.

- Documentation for SonarQube integration is completed.

### 4. Documentation:

- User/Admin login.

- Booking system.

- Unit test cases for admin and user.

- Documentation on Cross-plane, Helm, and ArgoCD is completed.

### 5. Deployment & Monitoring:

- Application prototype is deployed and tested in EKS Cluster.

- Datadog successfully implemented for monitoring logs and metrics.

## Training Sessions

|  |  |  |
| --- | --- | --- |
| Date | Topic | Trainer |
| 13th Feb | Kubernetes | Jayakumar |
| 14th Feb | MongoDB | Tony |
| 17th Feb | Cross-plane | Jayakumar |
| 18th Feb | Datadog | Tony |

## Definition of Done

- Home page, booking, cart, and payment flow are tested and functional.

- Backend unit tests achieve at least 80% coverage with passing results.

- SonarQube is integrated into CI pipeline, producing reports with no critical issues.

- All documentation is reviewed and approved.

- Application prototype is deployed in EKS Cluster without issues.

- Datadog is configured and successfully displaying logs and metrics.

- Training sessions are conducted, and attendance is documented.