# Sprint Plan

## Sprint Goal

* **Integration of Workflows to Single CI Pipeline** : Streamline the CI/CD process by integrating multiple workflows into a single CI pipeline, improving efficiency and automation.
* **Training on OWASP**: Conduct a comprehensive OWASP training session to enhance team awareness of security best practices and vulnerabilities.
* **Documentation on OWASP Implementation**: Provide clear documentation on OWASP security implementation to ensure consistent security measures across the project.
* **Documentation on Trivy SBOM**: Create documentation detailing the Trivy SBOM (Software Bill of Materials) implementation to support software supply chain security.
* **Terms and Conditions Check-box Implementation**: Implement a mandatory Terms and Conditions check-box to ensure user agreement before login or booking.
* **Implementing JSDoc for Function-Level Documentation**: Improve code maintainability by integrating JSDoc for function-level documentation across the codebase.
* **Implement JMeter for Performance Testing** :Set up and configure JMeter for performance testing to analyze system scalability and stability under load.
* **Create the Logout Functionality**: Develop and integrate a secure logout functionality to manage user sessions effectively.
* **API Integration for Booking List Retrieval**: Implement and integrate an API to fetch booking list data dynamically from the backend.
* **Static Page Design for Booking List Screen**: Design and develop a static UI screen for displaying booking lists with a responsive and user-friendly layout.
* **Postman for Integrated Testing**: Leverage Postman to perform integrated testing of APIs, ensuring reliability and correctness.
* **Generate Terms and Conditions Content for Login/Booking Page**: Draft a legally compliant and user-friendly Terms and Conditions document for the login and booking pages.
* **Implement ALB Ingress Controller for Kubernetes Services**: Deploy and configure an ALB Ingress Controller to manage and route Kubernetes service traffic efficiently.
* **Set Up DNS for Domain Hosting**: Configure DNS settings to establish proper domain resolution for hosted services

## Sprint Duration

- March 10, 2025 - Mar 23, 2025

## Sprint Capacity

- 25 story points

## Risk Profile

* CI/CD Pipeline Integration Risks – Potential disruptions in deployment due to misconfigurations or conflicts in merged workflows.
* Security and Compliance Risks – Gaps in OWASP implementation or Terms and Conditions compliance may lead to vulnerabilities or legal issues.
* Documentation Gaps – Incomplete or unclear documentation for OWASP, Trivy SBOM, and function-level details could impact future development and audits.
* Performance and Scalability Risks – Insufficient JMeter testing might leave performance bottlenecks undetected, affecting system responsiveness.
* API and UI Integration Risks – Booking list retrieval and UI design inconsistencies could lead to user experience and data synchronization issues.
* Infrastructure and Networking Risks – Misconfiguration in ALB Ingress Controller or DNS setup may lead to downtime or accessibility issues.

## Definition of Done

* **Integration of Workflows to Single CI Pipeline** – All workflows are integrated into a single CI pipeline, passing all tests and successfully deployed.
* **Training on OWASP** – OWASP training session is completed, and team members have demonstrated understanding of key security concepts.
* **Documentation on OWASP Implementation** – Comprehensive and accurate documentation of OWASP implementation is available for review and accessible to the team.
* **Documentation on Trivy SBOM** – Clear and complete documentation on the Trivy SBOM implementation is created and stored in the project repository.
* **Terms and Conditions Check-box Implementation** – The Terms and Conditions check-box is integrated and tested to ensure functionality across relevant user interactions.
* **Implementing JSDoc for Function-Level Documentation** – JSDoc comments are added to all relevant functions, and the codebase is fully documented.
* **Implement JMeter for Performance Testing** – JMeter tests are created and executed successfully, providing performance results and insights for improvements.
* **Create the Logout Functionality** – The logout functionality is implemented, tested, and ensures secure session termination.
* **API Integration for Booking List Retrieval** – The API is successfully integrated, and booking list data is retrieved and displayed correctly.
* **Static Page Design for Booking List Screen** – A fully designed static page for the booking list is created, responsive, and user-friendly.
* **Postman for Integrated Testing** – All APIs have been tested using Postman, with passing results for all integration scenarios.
* **Generate Terms and Conditions Content for Login/Booking Page** – The Terms and Conditions content is drafted, legally compliant, and integrated into the login and booking pages.
* **Implement ALB Ingress Controller for Kubernetes Services** – The ALB Ingress Controller is deployed and configured correctly to route traffic for Kubernetes services.
* **Set Up DNS for Domain Hosting** – DNS settings are configured and verified, ensuring proper domain resolution and hosting accessibility.