Definition of Done (DoD)

**Code:**

The code is written according to the established coding standards and style guidelines.

The code is reviewed by at least one other team member.

Any identified issues or suggestions from the code review are addressed.

**Unit Tests:**

Unit tests are implemented to cover critical functionality and edge cases.

All unit tests pass successfully.

Test coverage is maintained and regularly reviewed.

**Integration Testing:**

Integration tests are executed to verify the interaction between components and services.

All integration tests pass successfully.

Integration test coverage is maintained and regularly reviewed.

**Documentation:**

Sufficient and up-to-date documentation is provided for all code, including classes, methods, and APIs.

API documentation is clear, concise, and easy to understand.

The README file is updated to include relevant information about the project, its setup, and usage instructions.

Documentation for any configuration files or deployment procedures is provided.

**Build and Deployment:**

The code successfully builds without errors or warnings.

The Docker images are built correctly, including all necessary dependencies and configurations.

The Docker images are pushed to the Docker Hub registry.

The application is deployed on AWS and running correctly.

Deployment configurations and infrastructure setup are properly documented.

**Quality Assurance:**

Static code analysis is performed, and any identified issues are addressed.

Code is tested for performance and optimized if necessary.

Security vulnerabilities are identified and mitigated.

Best practices for security, scalability, and maintainability are followed.

**Acceptance Criteria:**

All acceptance criteria defined for user stories are met.

Features and functionality behave as expected and align with the requirements.

Any reported bugs or issues are resolved or properly documented for future handling.