# 2. Literature Review

## Feedback & Evaluation

The project will undergo evaluation by the lecturer or project supervisor, focusing on the alignment of the implemented solution with the project objectives.  
Evaluation Criteria:  
- Relevance of the selected DevOps tools and technologies (Git, Jenkins, Maven, Docker, Kubernetes, AWS).  
- Effectiveness of the CI/CD pipeline in automating build, test, and deployment processes.  
- Quality of source code management, containerization, and cloud deployment practices.  
- Adherence to industry best practices for DevOps, such as modular code, branching strategies, and automation.

## Suggested Improvements

Based on the lecturer's feedback, potential areas for enhancement may include:  
- Optimizing Jenkins pipelines for faster build times.  
- Improving container security by implementing Docker image scanning.  
- Enhancing Kubernetes deployment strategies to support rolling updates with minimal downtime.  
- Introducing more robust monitoring and alerting for the deployed application on AWS.  
- Expanding test coverage with additional automated testing scenarios.

## Final Grading Criteria

The project will be graded based on the following components:  
- Documentation (20%): Completeness of the project proposal, planning documents, and user manuals.  
- Implementation (30%): Code quality, CI/CD pipeline effectiveness, and deployment success.  
- Testing (20%): Thoroughness of test cases, bug tracking, and quality assurance practices.  
- Presentation (20%): Clarity, structure, and delivery of the project presentation.  
- Innovation & Problem Solving (10%): Creativity in approach and effectiveness in overcoming challenges.