



How to **Deliver Project**

Project Management Process

01

Initiation



- Project Charter
- Integrated Gantt Chart
- Kick Off Meeting



02

Planing



- Shaping
- Product Backlog
- Requirement Analysis



03

Execution



- Sprint : 6 weeks cycle Iteration
- Software Development
- Test Life Cycle



04

Monitoring & Controlling



- Monitor Project Work : Burndown Chart
- Bugs Tracking : Sentry
- Sprint Review



05

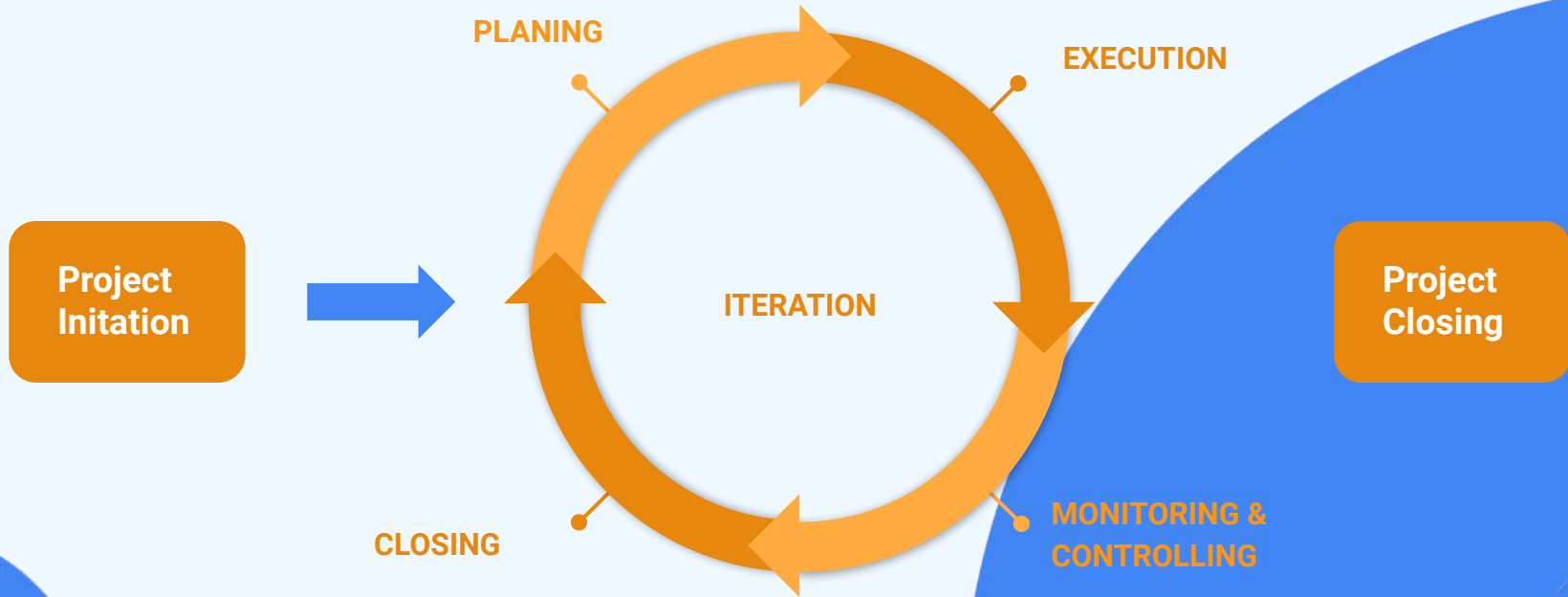
Closing



- Deployment
- Transfer Knowledge
- Deliverable



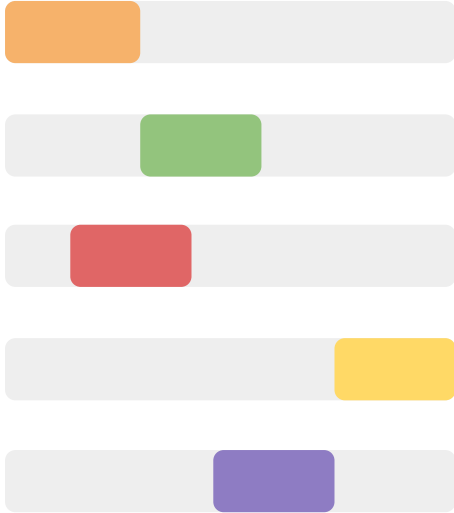
Adaptive Life Cycle : Agile, Incremental, Iterative



Project Charter

Responsibility	Project Manager
Tools	Google Docs
Content	<ol style="list-style-type: none">1. Scope2. Schedule3. Team4. Communication Plan

Integrated Gantt Chart



Schedule & Completion

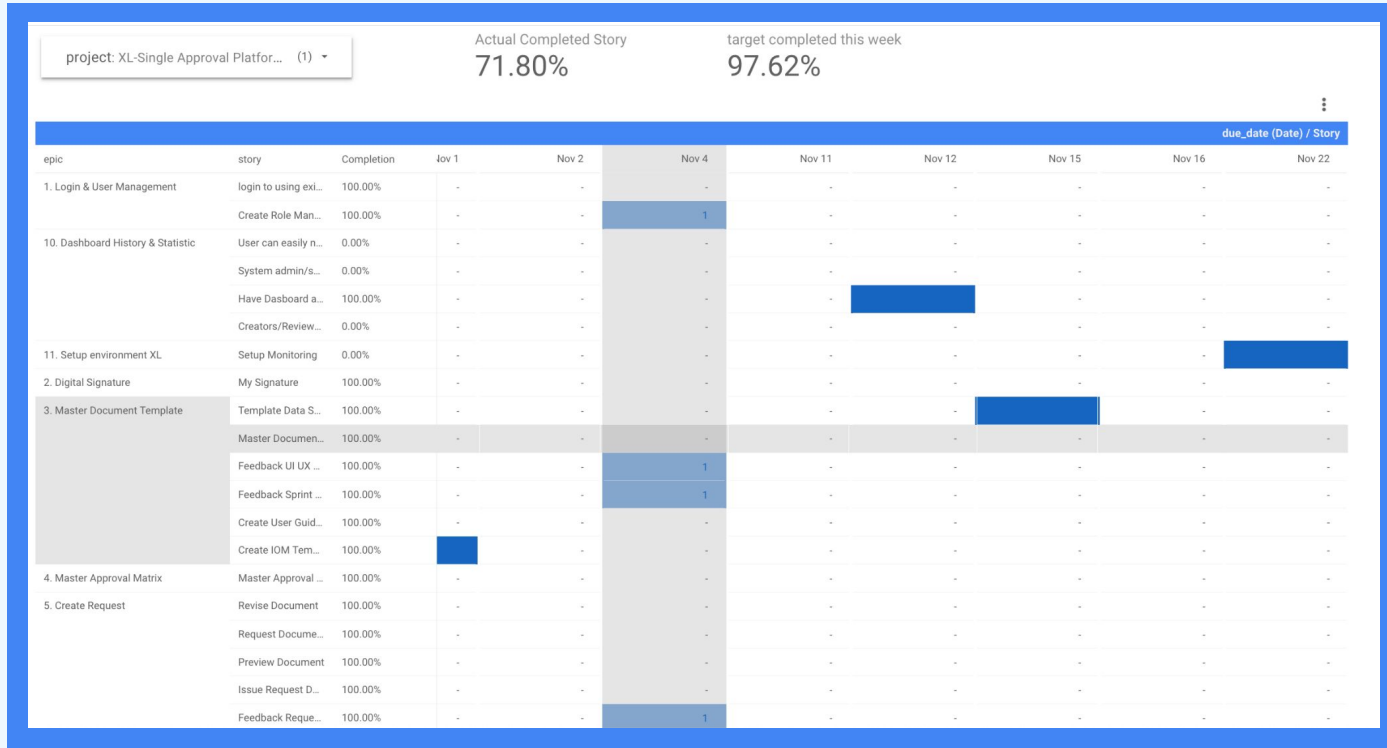


Sinkron dengan task management (taiga.javan.id)



Automatic Update


Integrated Gantt Chart

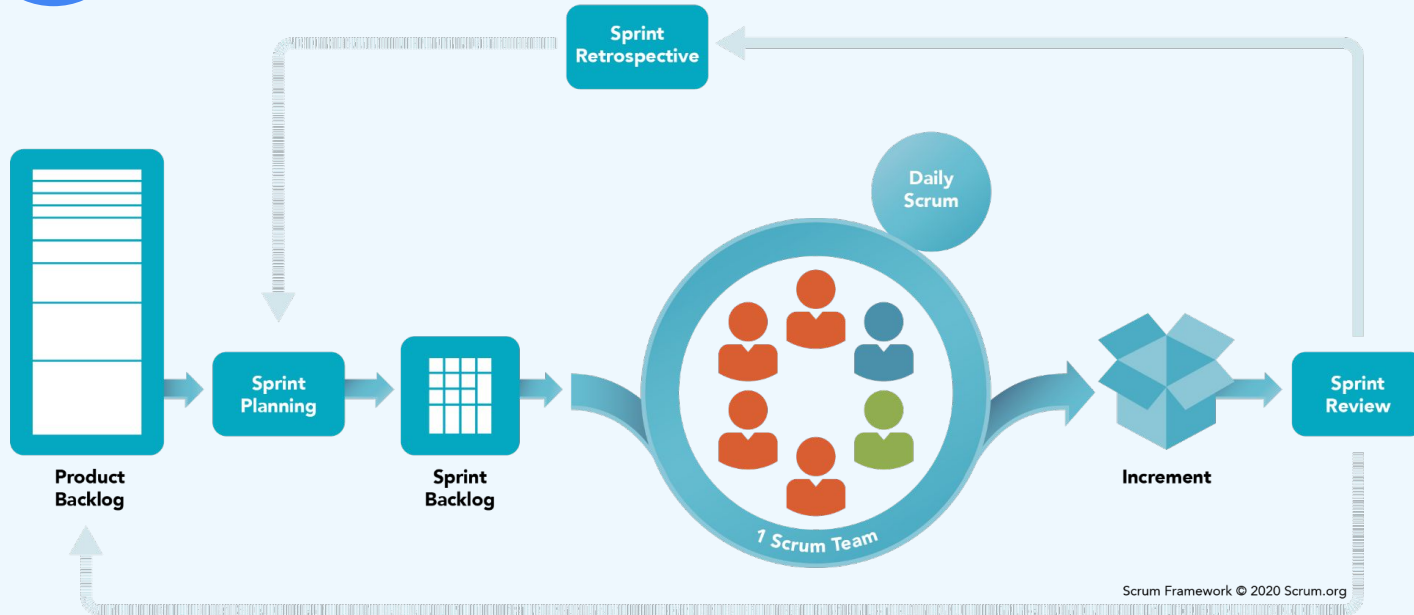


Shaping

Activity	Responsibility	Output
Analisis Proses Bisnis	Analisis	Bpmn
Design Data	Analisis	Class Diagram, ERD
Design API	Analisis	API Specification
Design UI	Analisis	Mockup using Balsamiq
Update Product Backlog	Project Manager	User Story Taiga
Design Software	Technical Leader	Technology, Architecture
Test Preparation	Quality Control	Test Plan, Case, & Tools

6 Weeks Cycle : Building Phase

 3 x 2 weeks sprint



Sprint Planing

Responsibility

Project Team

Procedure

Setiap Hari Senin di awal sprint

Output

1. Sprint backlog

Daily Scrum

Responsibility

Project Team

Procedure

Setiap Hari

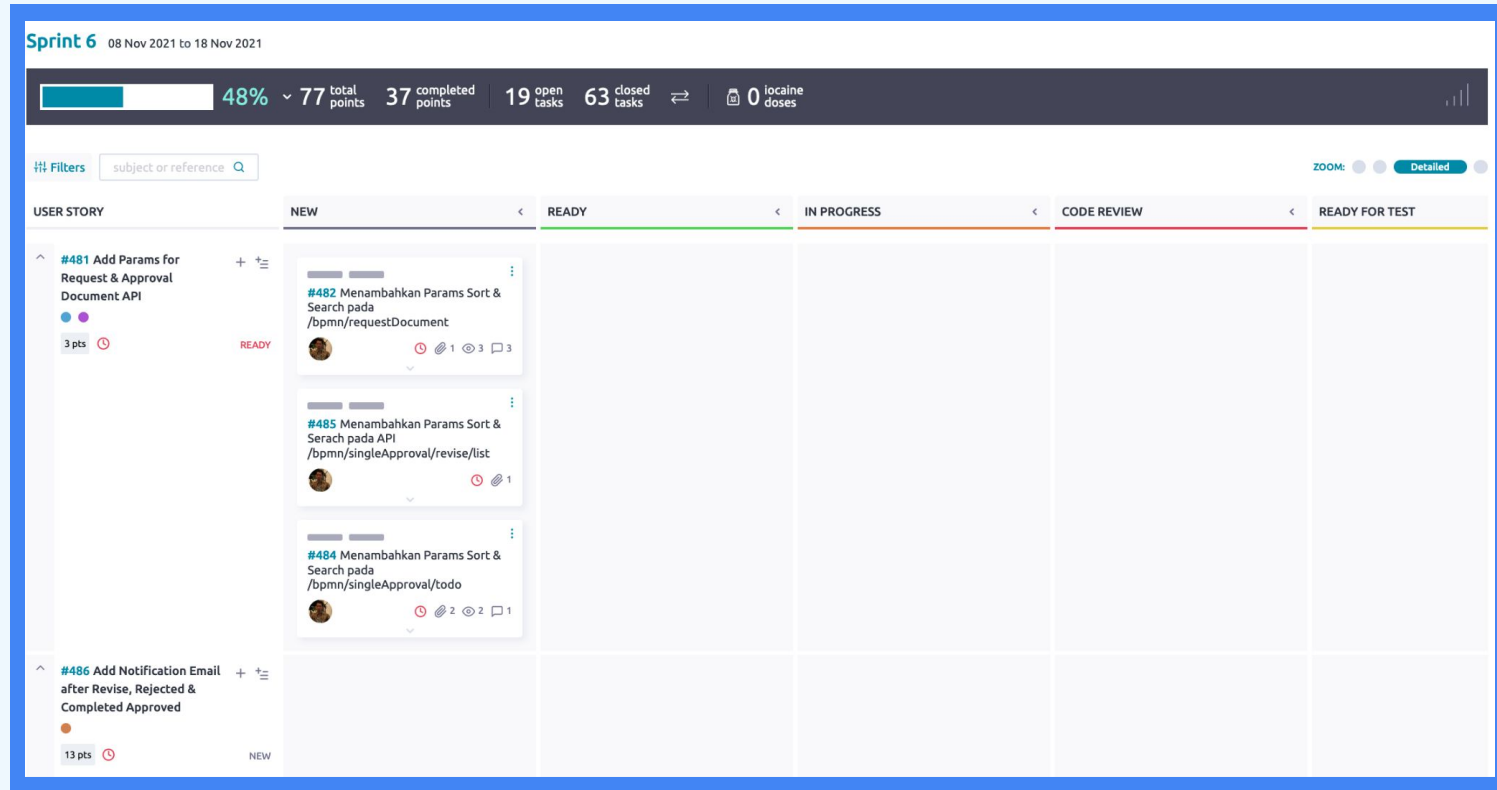
Output

- 1. Focus Today**
- 2. Team Problem Solving**



Task Management

Scrum Board : Taiga



Standard Task Category



[4.24] Detail Penawaran Kompetisi

Feature

Penambahan fitur baru yang sudah direncanakan sejak awal sprint

Tambah

Bugs

Bug yang ditemukan setelah sebuah fitur selesai dikerjakan

Tambah

DevOps Support

Permintaan bantuan teknis terkait DevOps

Tambah

Enhancement

Fitur tambahan yang belum direncanakan sebelumnya

Tambah

Standard Task Content

Create Task feature

INFORMASI TASK

Subject *

Siapa aktor yang akan menggunakan fitur ini?

Bagaimana tampilan yang diharapkan?

[Browse or drop files here](#)

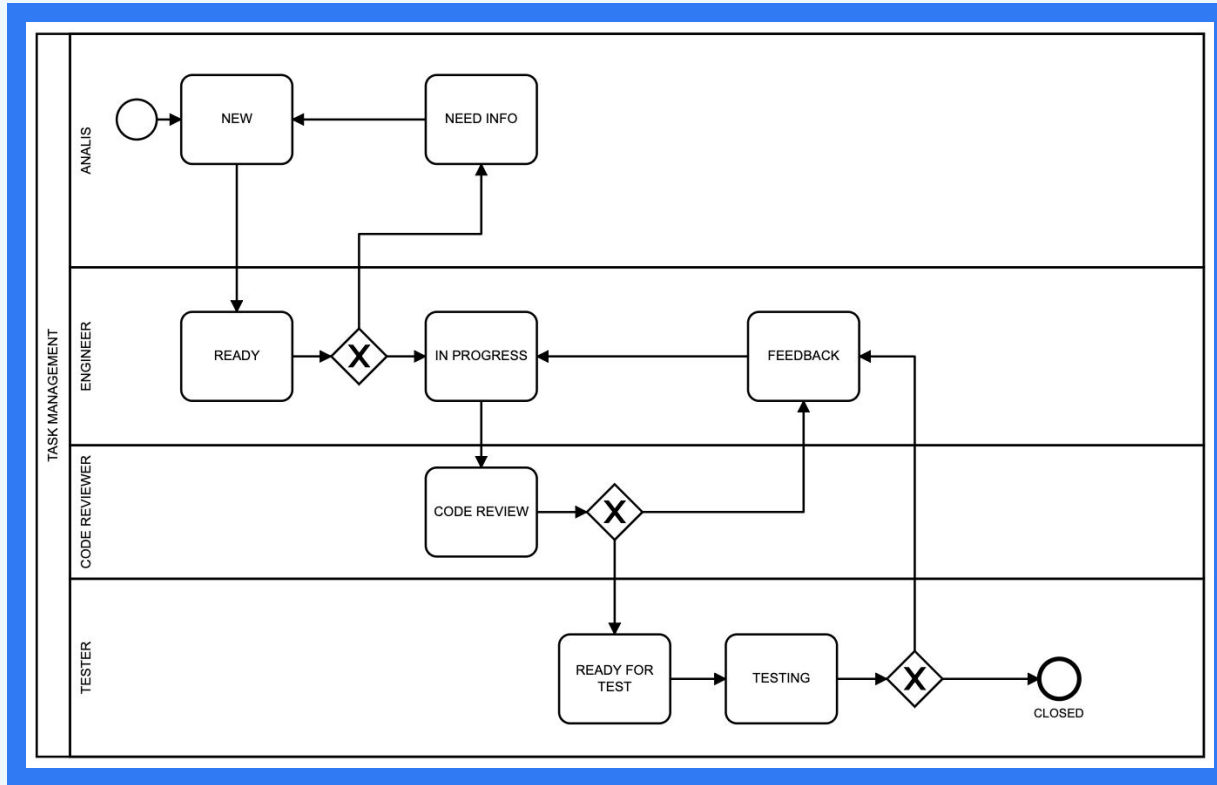
Database/table terkait?

← → ↶ B / U ☰ ☷ ☹ ∞ ↗ ☰

Apa URL/API yang digunakan?

← → ↶ B / U ☰ ☷ ☹ ∞ ↗ ☰

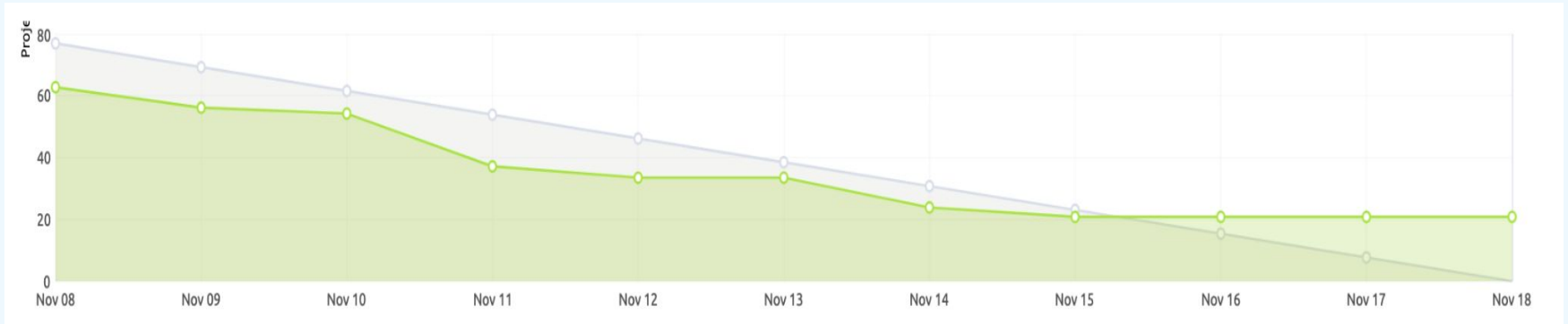
Standard Task Lifecycle





Project Monitoring & Controlling

Sprint Burndown Chart



Apa yang dapat dilihat?

1. Progress pengerjaan Sprint

Apa yang dapat dievaluasi?

1. Burndown hari kemarin masih melebihi batas kurva normal

Assignment Report

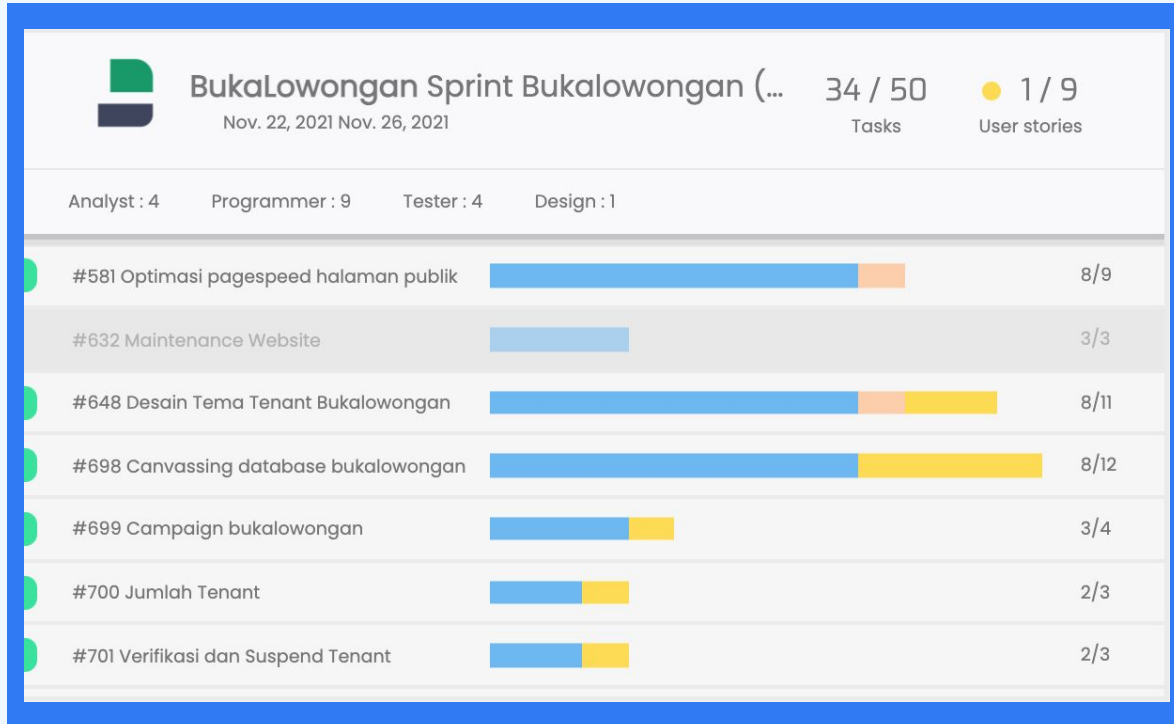
Project: E-Katalog 2021 | Status: Ready | Due Date: | Finished Date: | Role: Programmer

Assignment Report

projects	user story	subject	member	name	status	finished date	sprints	due date
E-Katalog 2021	Deploy Aplikasi Dengan Redis	Deploy Aplikasi Dengan Redis	Purwa Darozatun Akbar	Programmer	Ready	-	Sprint 4.6	November 18, 2021, 12:00 AM
E-Katalog 2021	Buat Regular Restart Aplikasi Di Jenkins	Buat Regular Restart Aplikasi Di Jenkins	Purwa Darozatun Akbar	Programmer	Ready	-	Sprint 4.6	November 18, 2021, 12:00 AM
E-Katalog 2021	Isu Kompetisi Spesifikasi	Beri Formatting Di Filed NPWP Di Detail Informasi Paket Kompetisi	Naufal	Programmer	Ready	-	Sprint 4.6	November 18, 2021, 12:00 AM
E-Katalog 2021	Isu Kompetisi Spesifikasi	Isu Penamaan Breadcrumbs	Naufal	Programmer	Ready	-	Sprint 4.6	November 18, 2021, 12:00 AM
E-Katalog 2021	[4.24] Detail Penawaran Kompetisi	Buat Integrasi FE BE Halaman Detail Kompetisi Penawaran - Kabupaten	Ardy Wibowo	Programmer	Ready	-	Sprint 4.6	November 18, 2021, 12:00 AM
E-Katalog 2021	[4.24] Detail Penawaran Kompetisi	Buat Integrasi FE BE Halaman Detail Kompetisi Penawaran - Provinsi	Ardy Wibowo	Programmer	Ready	-	Sprint 4.6	November 17, 2021, 12:00 AM
E-Katalog 2021	[4.24] Detail Input Harga Penawaran Kompetisi	Buat Validasi BE Harga Satuan Tidak Boleh 0	Naufal	Programmer	Ready	-	Sprint 4.6	November 19, 2021, 12:00 AM
E-Katalog 2021	[4.24] Detail Input Harga Penawaran Kompetisi	Buat FE Halaman Detail List Produk Penawaran Kompetisi - Nasional	Ardy Wibowo	Programmer	Ready	-	Sprint 4.6	November 17, 2021, 12:00 AM
E-Katalog 2021	[4.24] Detail Input Harga Penawaran Kompetisi	Buat FE Halaman Detail List Produk Penawaran Kompetisi - Provinsi	Ardy Wibowo	Programmer	Ready	-	Sprint 4.6	November 18, 2021, 12:00 AM
E-Katalog 2021	[4.24] Detail Input Harga Penawaran Kompetisi	Buat Integrasi FE BE Halaman Detail List Produk Penawaran Kompetisi - Nasional	Ardy Wibowo	Programmer	Ready	-	Sprint 4.6	November 19, 2021, 12:00 AM
E-Katalog 2021	[4.24] Detail Input Harga Penawaran Kompetisi	Buat Integrasi FE BE Halaman Detail List Produk Penawaran Kompetisi - Kabupaten/Kota	Ardy Wibowo	Programmer	Ready	-	Sprint 4.6	November 19, 2021, 12:00 AM
E-Katalog 2021	[4.24] Detail Input Harga Penawaran Kompetisi	Buat Integrasi FE BE Halaman Detail List Produk Penawaran Kompetisi - Provinsi	Ardy Wibowo	Programmer	Ready	-	Sprint 4.6	November 17, 2021, 12:00 AM
E-Katalog 2021	[4.24] Detail Input Harga Penawaran Kompetisi	Buat Validasi BE Harga Satuan Tidak Boleh Lebih Dari Harga Tayang Di Katalog	Naufal	Programmer	Ready	-	Sprint 4.6	November 19, 2021, 12:00 AM
E-Katalog 2021	[4.24] Detail Input Harga Penawaran Kompetisi	Buat FE Halaman Detail List Produk Penawaran Kompetisi - Kabupaten	Ardy Wibowo	Programmer	Ready	-	Sprint 4.6	November 18, 2021, 12:00 AM
E-Katalog 2021	Setup Minio di Latihan	Setup Config Minio di Server Latihan	Purwa Darozatun Akbar	Programmer	Ready	-	Sprint 4.6	November 18, 2021, 12:00 AM
E-Katalog 2021	[4.24] Validasi Backend Di Ajukan Penawaran dan Produk	Buat Validasi Pengecekan Stok Limited dan Unlimited	Jundullah Ishaq Aulia	Programmer	Ready	-	Sprint 4.6	November 17, 2021, 12:00 AM

<https://metabase.javan.id/dashboard/11-assignment-report?project=E-Katalog%202021&status=Ready&role=Programmer>

Sprint Progress





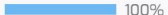
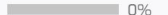

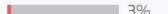

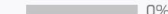

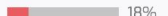

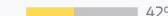





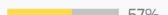


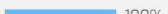











Apa yang dapat dimonitor?

1. Progress pengerjaan Task & User Story
2. Validasi Kesiapan User Story oleh PM

Apa yang dapat dievaluasi?

1. Di minggu ke 2 Sprint, masih ada User Story yang tidak ready.

Balancing Table

Due Date	Analyst	Programmer	Code Reviewer	Tester
Nov. 25, 2021	0.28 3  100%	0.28 3  0%	0.0 1	0.0 1
Nov. 24, 2021	0.39 5  100%	0.52 5  0%	0.0 1	0.69 2
Nov. 23, 2021	0.58 7  96%	0.68 9  3%	0.0 1  100%	0.56 2  0%
Nov. 22, 2021	0.56 9  85%	0.75 12  18%	0.0 1  100%	1.26 5  42%
Nov. 19, 2021	1.08 10  94%	1.01 15  59%	0.92 2  100%	1.44 8  51%
Nov. 18, 2021	0.72 14  100%	0.54 25  57%	1.24 3  95%	1.22 12  53%
Nov. 17, 2021	0.51 13  100%	0.59 25  78%	1.7 5  90%	0.92 15  82%
Nov. 16, 2021	0.63 16  100%	0.7 24  96%	1.36 4  97%	0.97 17  93%
Nov. 15, 2021	0.78 12  100%	0.4 21  100%	1.45 4  100%	0.6 12  100%

Apa yang dapat dinilai?

1. Stok Task untuk masing-masing roles
2. Capaian Target Harian

Apa yang dapat dievaluasi?

1. Task di hari kemarin masih ada yang open

Weekly Report

Responsibility

Project Team

Procedure

Email, setiap hari jum'at

Content

- 1. Executive Summary**
- 2. Capaian**
- 3. Issue**
- 4. Action Plan**

Sprint Review

Responsibility

Project Team

Procedure

Setiap hari jum'at akhir sprint

Content

- 1. Progress Summary**
- 2. Application Demo**
- 3. Lesson Learned**
- 4. Backlog Next Sprint**



Software Development

Tools



IDE

- Standard IDE : JetBrains (Intellij, PHP Storm)
- Standard Plugin : Sonarlint

GIT

- Repository : gitlab.javan.co.id
- Git Client

Platform



Backend

- Spring Boot
- Library Alur Kerja

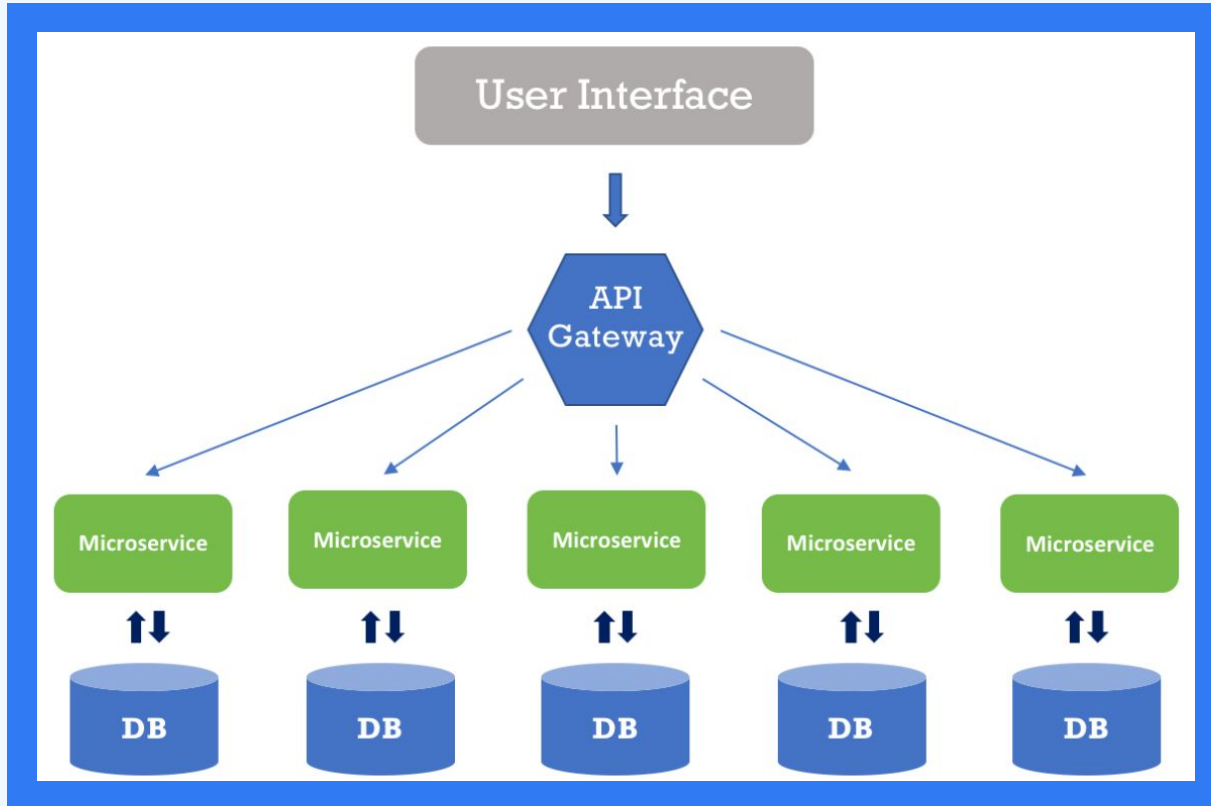
Frontend

- Angular
- React
- Laravolt

Workflow Engine

- Camunda

Architecture : **Microservices**



Coding Standard

Sonar Metric

1. Code Coverage
2. Cognitive Complexity
3. Code Smells
4. Duplicated Lines

Coding Standard : **Clean Code**

Strategy

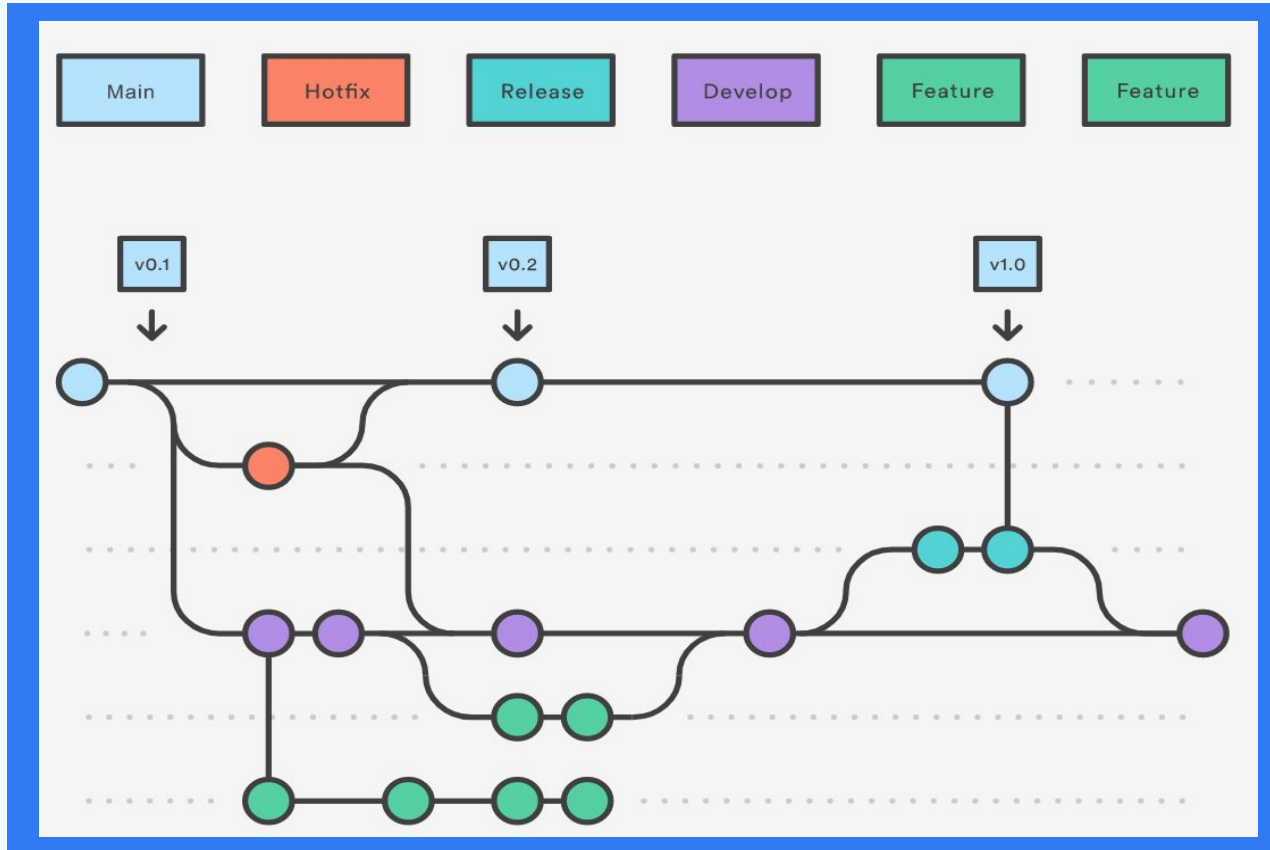
1. Focus on New Code
2. Personal Responsibility
3. Set and enforce high standards

Coding Standard : **Unit Test**
















Strategy

1. Focus on Service Layer
2. Run Test via IDE
3. Integrate to Sonar
Code Coverage Report

Git Flow



Deployment : Gitlab CI/CD

Status	Pipeline	Triggerer	Commit	Stages
passed	#39785 latest		master -> c7bbc9a6  perbaiki bug date diubah jadi lo...	 00:00:31 📅 1 day ago
passed	#39784 latest		master -> c7bbc9a6  perbaiki bug date diubah jadi lo...	 00:00:20 📅 1 day ago
passed	#39750		master -> 4a9d0243  Merge branch 'perbaikan-email-...	 00:00:20 📅 1 day ago
passed	#39731		master -> 0ea3c116  Merge branch 'feature/tambah-...	 00:00:20 📅 2 days ago
passed	#39703		master -> d82d7526  Merge branch 'add/sendHtmIM...	 00:00:21 📅 2 days ago

Bugs Tracking : Sentry

The screenshot displays the Sentry web interface for a project named 'The Tardis' (River Song). The interface includes a sidebar with navigation options: Projects, Issues, Events, Releases, User Feedback, Dashboards, Discover, Activity, Stats, and Settings. The main content area shows 'Unresolved Issues (450)' with a search bar containing 'is:unresolved' and a 'Sort by: Last Seen' dropdown. Below this is a table of issues with columns for 'Resolve', 'Ignore', 'Merge', 'Star', 'Play', 'GRAPH', 'EVENTS', 'USERS', and 'ASSIGNEE'. The table lists four issues:

Issue Type	Message	EVENTS	USERS	ASSIGNEE
TypeError	func(components/App) in components/App.js this.myCodelsPerfect is not a function FRONTEND-REACT-V an hour ago - 2 months old SI-20	500	45	NM
Error	cart.forEach(app) in /Users/vu/Documents/sdk_demos/demos/express/app.js No inventory for nails EXPRESS-DEMO-4 3 hours ago - 2 months old	490	80	
Error	apply(components/App) in components/App.js 500 - Internal Server Error FRONTEND-REACT-R 3 hours ago - 3 months old	140	49	NM
TypeError	null.<anonymous>(app) in /app/app.js obj.DoesNotExist is not a function EXPRESS-DEMO-6 21 hours ago - a month old	86	38	

sentry.io dapat melakukan monitoring terhadap failed system menjadi lebih cepat dan tepat. Sentry memiliki interface yang cukup user friendly.



Test **Life Cycle**

Tools

Documentation

GOOGLE DOCS

Testing

- API : Postman
- Database : Database IDE (Dbeaver, DataGrip)
- UI Automation : Playwright
- Security Test : Owasp Zap

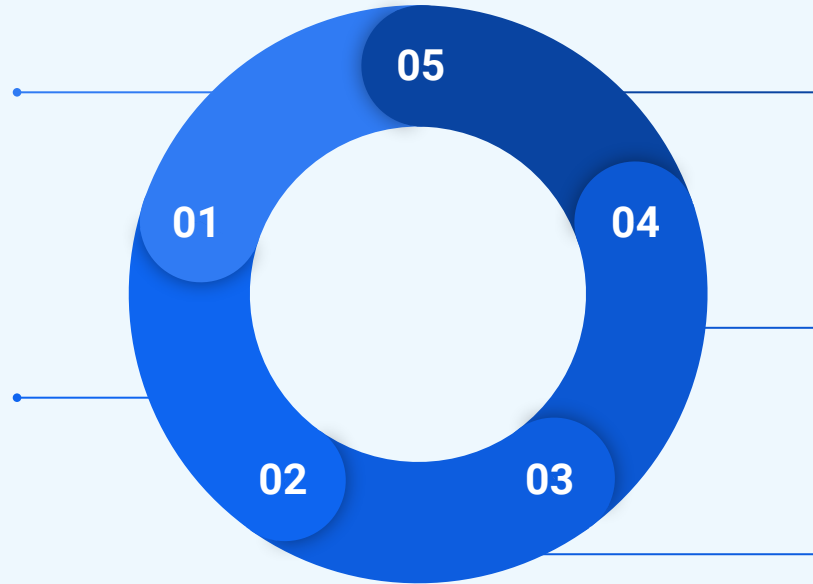
Test Life Cycle

Test Planning & Control

Define test objective, test strategy and test control to monitor progress

Test Analysis & Design

Understanding the requirement, identify test condition and design test



Test Closure Activities

Make sure the planned deliverables is actually delivered. Finalize and handover testware. Evaluate lessons learned

Evaluating Exit Criteria & Reporting

Analyze test results, asses if more test case are needed and write summary report

Implementation & Execution

Develop and prioritize test case. Execute test case and log test results

Test Planning & Control

Responsibility	Test Leader
Tools	Google Docs
Content	<ol style="list-style-type: none">1. Test Scope2. Objective3. Risk4. Test Approach5. Test Strategy6. Test Resources7. Test Schedule8. Exit Criteria
Output	Test Plan

Test Analysis & Design

Activity	Responsibility	Output
Define high level of test case and test condition based on requirements	Tester	Initial test case

Implementation & Execution

Activity	Responsibility	Output
Test case development	Tester	Test Case Document
Test execution	Tester	Test Result

Evaluating Exit Criteria & Reporting

Activity	Responsibility	Output
Evaluate exit criteria	Test Lead	Updated test plan
Create summary report of testing	Test Lead	Summary report

Test Closure Actives

Activity	Responsibility	Output
Review the planned deliverable = actually delivered	Tester	ACK Test Case
Finalize testware	Tester	Final Test Case Repository (Automation Test)
Handover testware	Tester	Transfer Knowledge Document
Get Lesson learned	Test Lead	Lesson learned document

Incident Management

