SILVER Chapter 0 Chapter 1 Chapter 2 Chapter 3									
Mengetahui Pengantar Dunia Pemrograman	Memahami basic programing dengan menggunakan bahasa pemrograman Javascript	Memahami logika pemrograman dengan menggunakan Javascript	Pengolahan data di backend dengan database PostgreeSQL						
Programming Introduction Sejarah Aplikasi Konsep Produk SDLC Tech Stack Bahasa Pemrograman	Backend (Pengantar) - Pengenalan back end developer - BE developer job scope - BE developer skill set - Terminal - Tools for development	Programming Algorithm part 1 - Algoritm - Flowchart - Pseudocode - Sorting algorithm	Database - Mengenal database - DBMS - SQL (PostgresSQL) - No SQL (MongoDB) - ERD (Entity Relationship Diagram)						
	Javascript - Struktur data - Code structure - Variables - Data types	Loop - For - While - Do-while - Recursive	DBMS (Database Management System) - Macam-macam DBMS - Setup database (SQL)						
	Javascript - Operator & Expression - Operators - Operators - Logical operators - Let, const dan var	Programming Algorithm part 2 - Sorting algorithm - Binary search algorithm - Binary search algorithm - Persegi Bintang - Segitiga Gintang - Derter Hongka - Bilangan Prima	Query Language - DDL (Data Definition Language) - DML (Data Manipulation Language) - CRUD						
	EcmaScript 6 - Function - Class - Promise - Async await	OOP in Javascript - OOP introduction - Polymorphism - Inheritance - Encapsulation - Abstraction	RDBMS - RDBMS introduction - RDBMS implementation						
	GIT - Instalasi - Inisialisasi - Command - Manage repo - Branching								
	Self Learning, Live Forum Disc	cussion, Individual Project	1						

- Runtime environment - Module, Cried Module, Third Party Module, Loral Module, Third Party Module, Loral Module, - Peakage manager - Microservices - Microservices - Microservices - HTTP responses - HTTP responses - HTTP responses - HTTP responses - Page and writer file - Page and mixer file - Page and mixe	GOLD						PLATINUM				
Mampu membuat rest API Networking, API Documentation Mampu melakukan setsing dan deployment Andread deployment Andread deployment Andread deployment Andread deployment Andread (Core Module, Third Party Module, Local Module,	Chapter 4	Chapter 5	Chapter 6	Chapter 7	Chapter 8		Chapter 9	Chapter 10	Chapter 11		
- Runtine environment - Module (Der Module) - Proflocols - Proflocols - Mondible (Der Module) - Mondible (Der Module) - Mondible - HTTP responses - Https://doi.org/10.1001/10.	Mampu membuat rest API			authentication dan media handling untuk mendukung	socket dan mailer untuk mendukung pengembangan fitur						
- Express SIs introduction and installation and installat	Module (Core Module, Third Party Module, Local Module) Package manager Node.JS vs Browser	Client & Server Introduction Protocols Monolithic Microservices	- Testing fundamental - Testing principles - Test phases dan testing types - Automation testing - Testing using Jest - End to end testing using Jest	- Authentication - JWT strategy - Passport	- Web socket introduction						
- HTTP Server — Netdoet HTTP - Serving HTML - Serving HTML - Serving HTML - Serving HTML - MCR (Model Controller) - MCR (Model Controller Router) - MCR (Model	installation - Routing - Middleware (authentification, authorization) - View Engine	- Dokumentasi API - Struktur dan Kriteria Dokumentasi API - Swagger Tools - Implementasi Swagger	- Could & server introduction	- Backend debugging	- Introduction HTML dan web design - Meta data - HTML text formating - Hyperlinks - CSS introduction						
- Express SQL Database connection - CICCD process - Create a gitab-cl-yml file - Pipeline and jobs status ORM (Object Relational Mapping) - ORM introduction dan installation - Definisi Model - Migration - Model definition - Querying - Association - CRUD data Self Learning Live Forum Discussion, Individual Project Self Learning Live Forum Discussion,	- Metode HTTP - Serving HTML - Serving static file - JSON - Mengenal Restful API - Endpoint - Implementasi Restful API	Design pattern introduction MVC (Model View Controller)	Deployment Docker architecture Docker commands to manage images and containers Networks in docker Volumes in docker Deploy web apps sebagai docker	- Video Upload - Image Upload	- Mailer introduction - SMTP - Pop 3						
- ORM introduction dan installation - Definish Model - Definish Model - Migration - Model definition - Ouerying - Association - CRUD data - Salf Learning Live Forum Discussion, Individual Project - Self Learning, Live Forum Discussion,	,		- CI/CD process - Create a .gitlab-ci.yml file								
	- Definisi Model - Migration - Model definition - Querying - Association										
	Self Learning, Live Forum Discussion, Individual Project										