Nama : Tivany Aqlicia

Kelas : IT Fullstack Web Developer

**SUMMARY MATERI SOFTWARE ENGINEER**

1. **Scope Penting Fullstack Development**

* **Front end development**
* HTML
* CSS
* JS

Popular Framework : react js, vue js, angular js

* **Back end development**
* Server Side Languange
* Server Framework
* Database Management

Popular Framework : express js, laravel, spring, rails

* **Database management**
* Database System
* Tipe Database
* Query

Popular Database Management :

SQL : oracle, postgre sql, mysql

NoSQL : mongodb

* **Integration of front end dan back end**
* **Version control and colaboration**
* **Mobile development**
* platform mobile
* IDE

Popular Framework : Flutter, React Native

1. **Tahap Pengembangan Aplikasi End-To-End**

Memiliki beberapa tahapan yaitu :

* Perencanaan dan analisis
* Desain
* Pengembangan front end
* Pengembangan back-end
* Integrasi dan pengujian
* Pemeliharaan dan peningkatan

1. **Kolaborasi Efektif dengan Version Control**

* Manfaat Kolaborasi Version Control

1. Rekam perubahan
2. Pencatatan riwayat
3. Pemecahan konflik
4. Pemulihan mudah

* Penggunaan Version Control dalam Kolaborasi

1. Inisialisasi proyek
2. Pengembangan paralel
3. Branching
4. Merge
5. Pull request
6. **Tools Set Fullstack Development**

* **IDE**  : Vscode
* **Version control (repository)** : Github, Gitlab, Bitbucket
* **Version control (git tools)** : Sourcetree, Gitlens
* **DBMS** : Sql (Oracle, Postgre Sql, Mysql), Nosql (Mongodb)
* **API**  : Postman, Swagger
* **Test and debugging** : Jest, Moocha Chai, Junit
* **Layanan cloud** : Aws, Google Cloud, Azure
* **CI/CD** : Jenkins, Circleci
* **Desain UI/UX** : Figma, Sketch