

# Introduction to Software Development

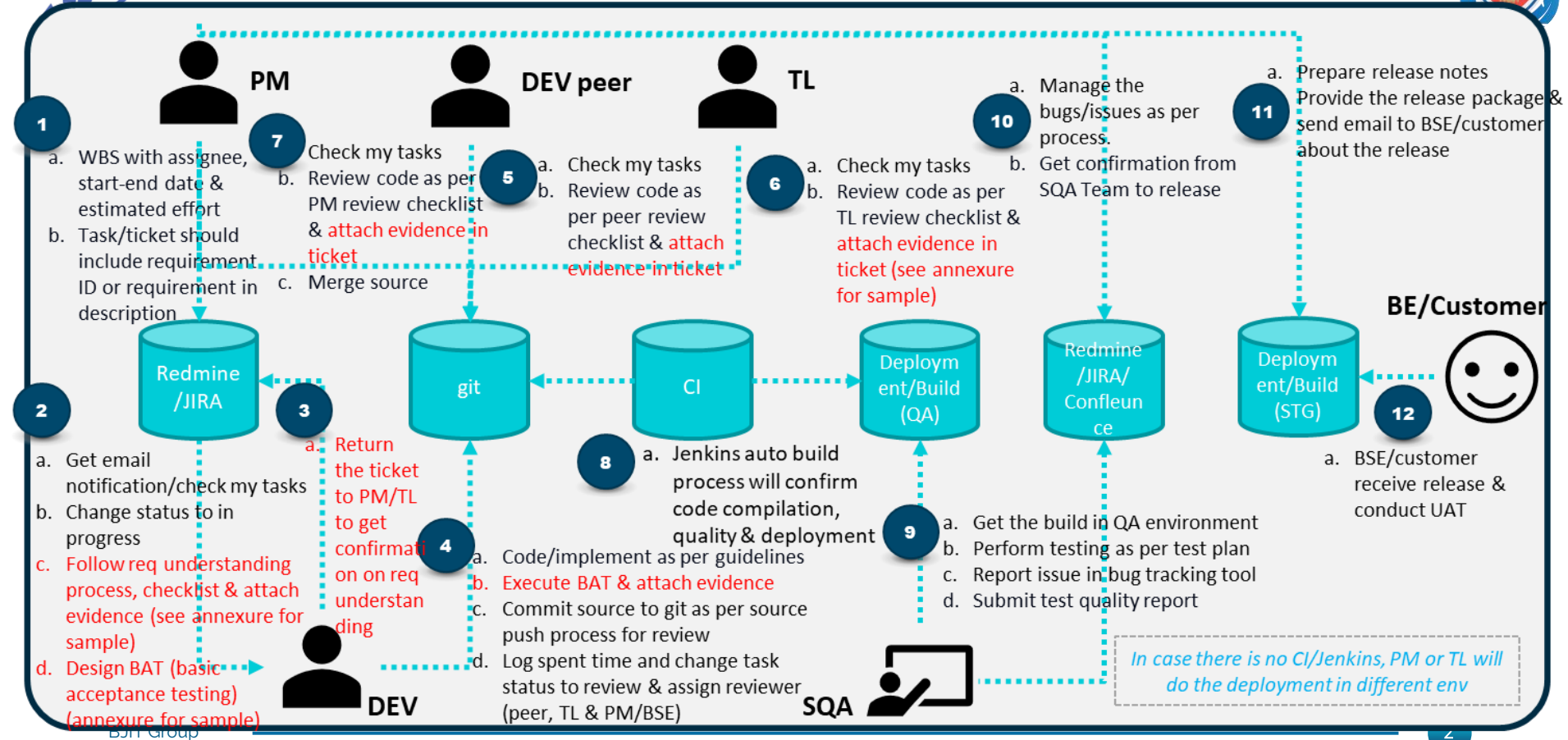
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## Process & Technology

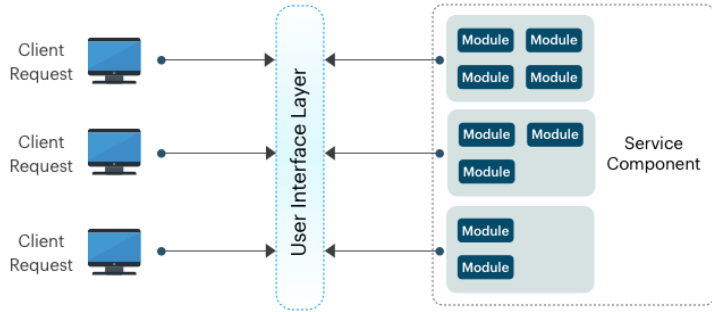
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Provide diversified training to brush up skills of employees

# Typical Development and Release Process



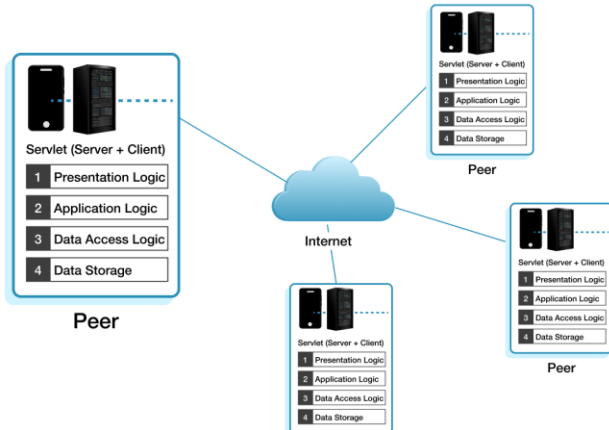
# Software Architectural Patterns



An architectural pattern can be called an outline that allows you to express and define a structural schema for all kinds of software systems.

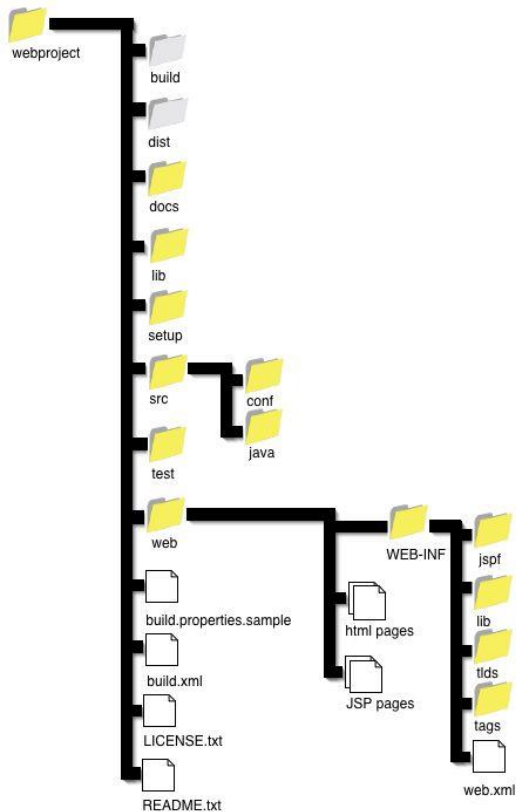
It's a reusable solution that provides a predefined set of subsystems, roles, and responsibilities, including the rules and roadmap for defining relationships among them.

An architectural pattern is a rough image or blueprint of your system, it's not the design pattern.



Famous examples of architectural patterns are **microservices**, **message bus**, **service requester/ consumer**, **MVC pattern**, **MVVM**, **microkernel**, **n-tier**, **domain-driven design components**, and **presentation-abstraction-control**.

# Web Applications: Recommended Directory Contents

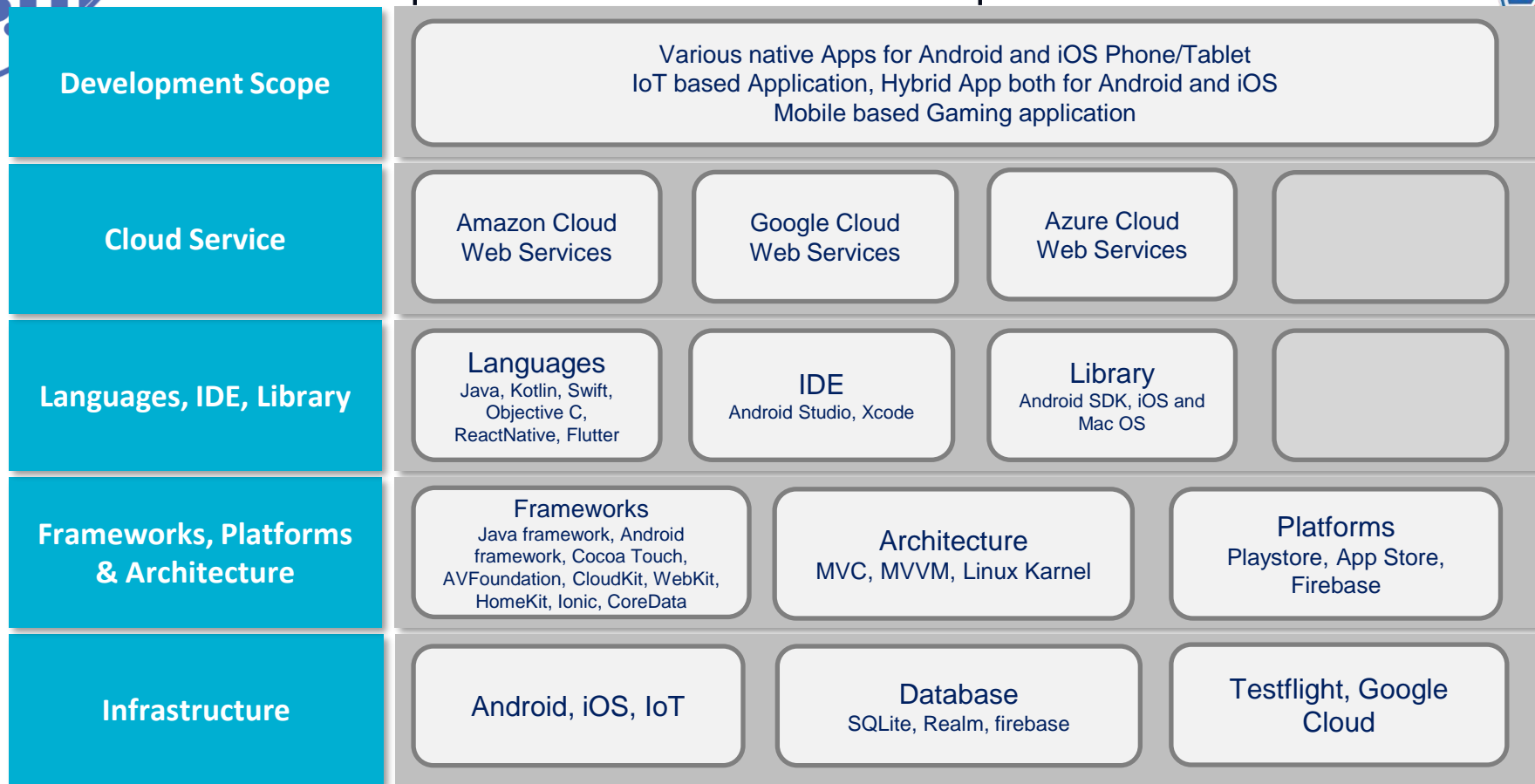


Create Project in any popular IDE, like Eclipse, NetBeans, IntelliJ IDEA, to see the typical Java Web application structure.

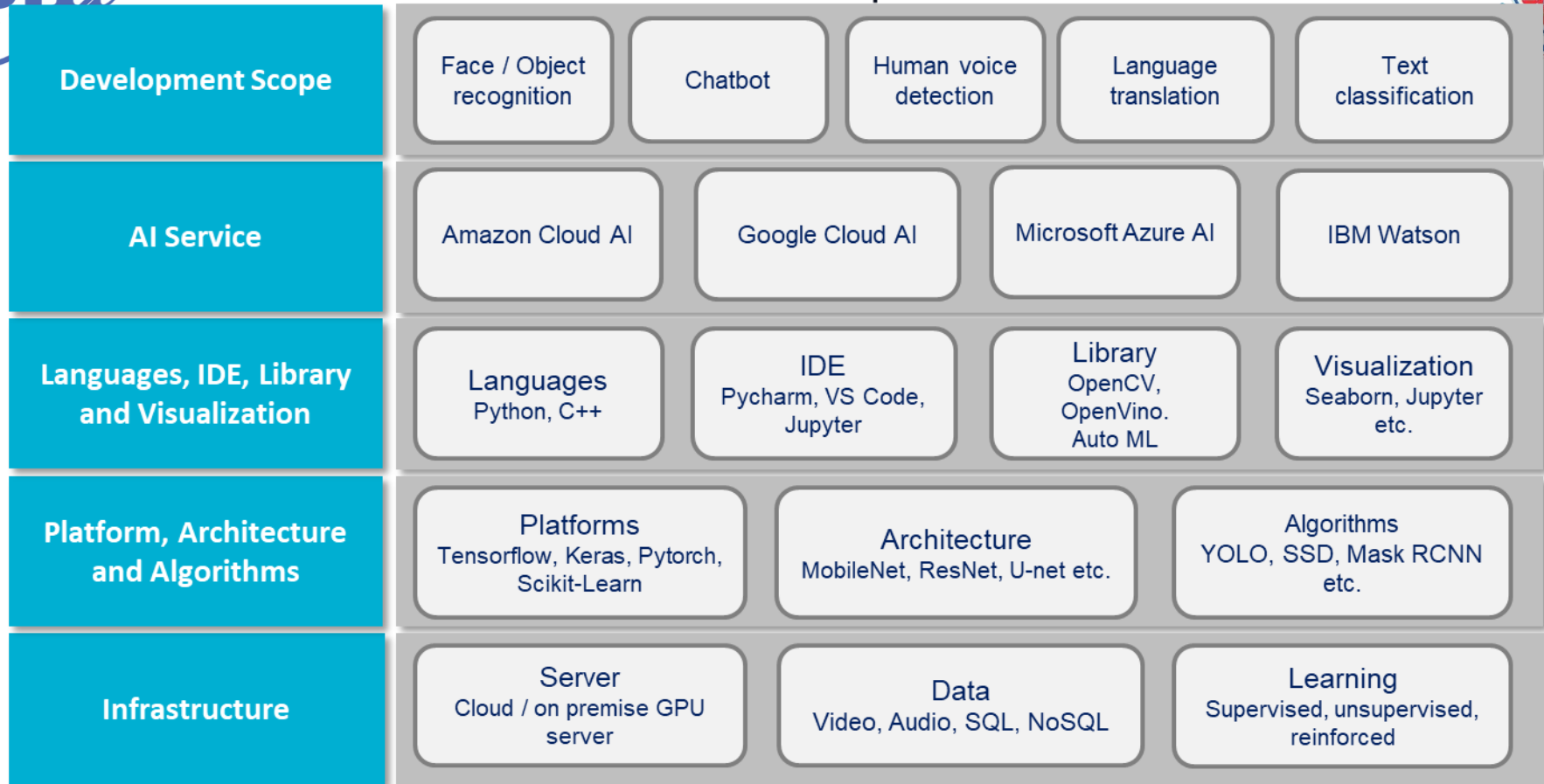
Directory Name	Directory Contents
build/	Created by the build tasks and used to hold project-wide build items such as compiled source, assembled modules, or files generated by the Javadoc tool. When deploying a Web module, consider building an unzipped view of the component to enable deployment as a directory structure directly to an application server.
conf/	Configuration or other set-up files, such as Web service configuration files needed by a component or module during the build process. Includes files that are placed in a module's META-INF directory. Also includes configuration files that may require processing prior to being placed in the final module.
dist/	Created by the top-level build dist task, structures under this directory represent the unzipped versions of the binary created by the project.
docs/	Contains all the documentation for a project, including HTML files, installation and setup files, etc.
lib/	Holds specific versions of components of external libraries used by an application. There will be multiple dependent libraries to compile and build the application. Consider including targets that download the correct versions of dependent binaries at build time.
setup/	Contains files that are relevant to the environment for a project or application. This directory may contain database SQL files, ant files containing shared tasks, or any other files that are used to configure a container for a project or application.
web/	Contains the static content of the resulting WAR file.
web/WEB-INF/	Contains the web.xml deployment descriptor and static configuration files, such as faces-config.xml. May also include vendor-specific runtime deployment descriptors, such as sun-web.xml. Generally, this directory contains files that are copied rather than changed during a build. Dynamic configuration files should be placed in the conf/ directory.
test/	The top-level test/ directory contains project-wide tests. Each individual component or module should also include a unit test, which should be placed in the src/test directory for each component or module.

Development Scope	Various Web Application accessible through browser ERP application, e-commerce solution, SAP and Salesforce			
Cloud Service	Amazon Cloud Web Services	Google Cloud Web Services	Azure Cloud Web Services	
Languages, IDE, Library	Languages PHP, Java EE, Python, Kotlin	IDE Eclipse, PyCharm, IntelliJ IDEA, Atom, VSCode	Library jQuery, Bootstrap, D3.js, three.js	
Frameworks, Platforms & Architecture	Frameworks Laravel, Spring, Play, Struts, Angular JS, Django, Ruby & Rails, Node.js, ReactJS, Vue.js, MEAN, MERN	Architecture MVC, n-tier, SOA, micro service	Platforms WordPress, Wix, Magento	
Infrastructure	Server Cloud / on premise Web Server (Tomcat, Apache, Nginx etc.)	Database AWS, MSSQL, SQLite, MySQL, PostgreSQL, MongoDB.	Container Docker, Kubernetes	

# Smartphone and IoT development stack



# AI Development Stack



Thank You  
For Watching

