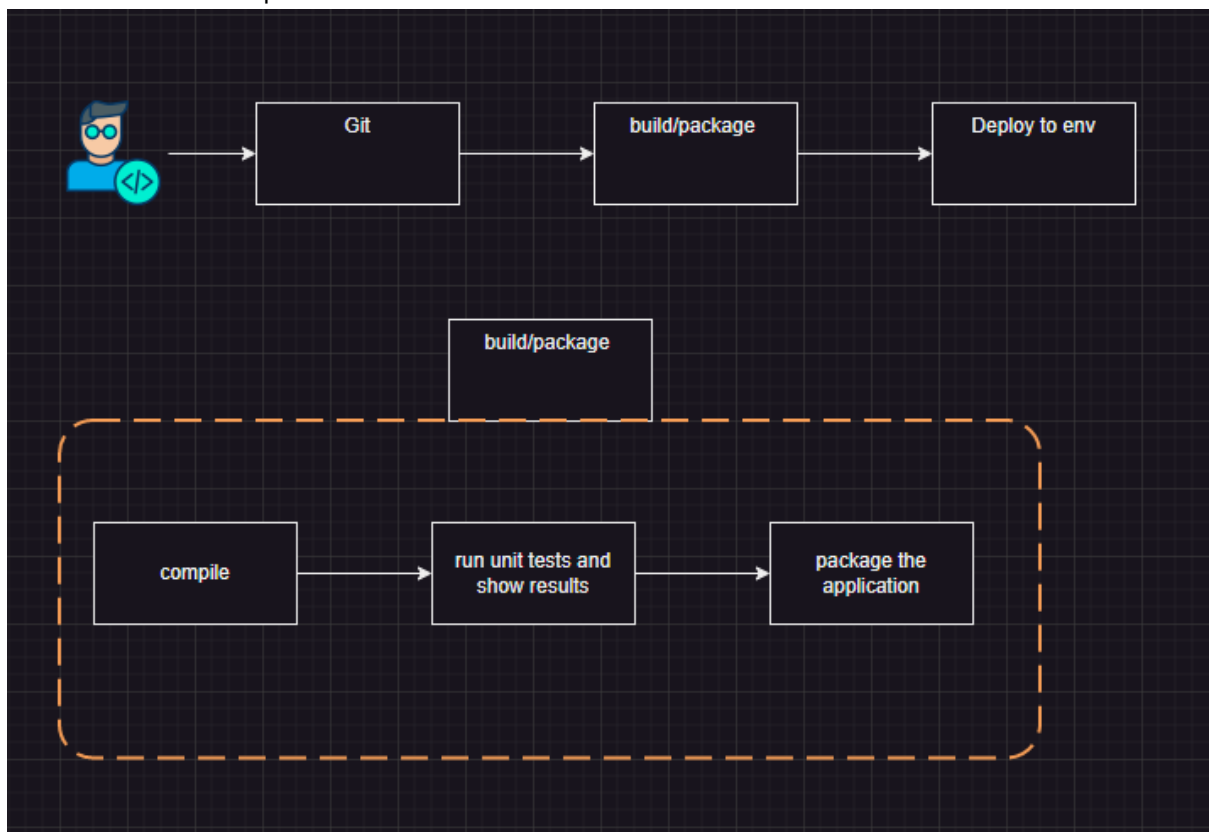


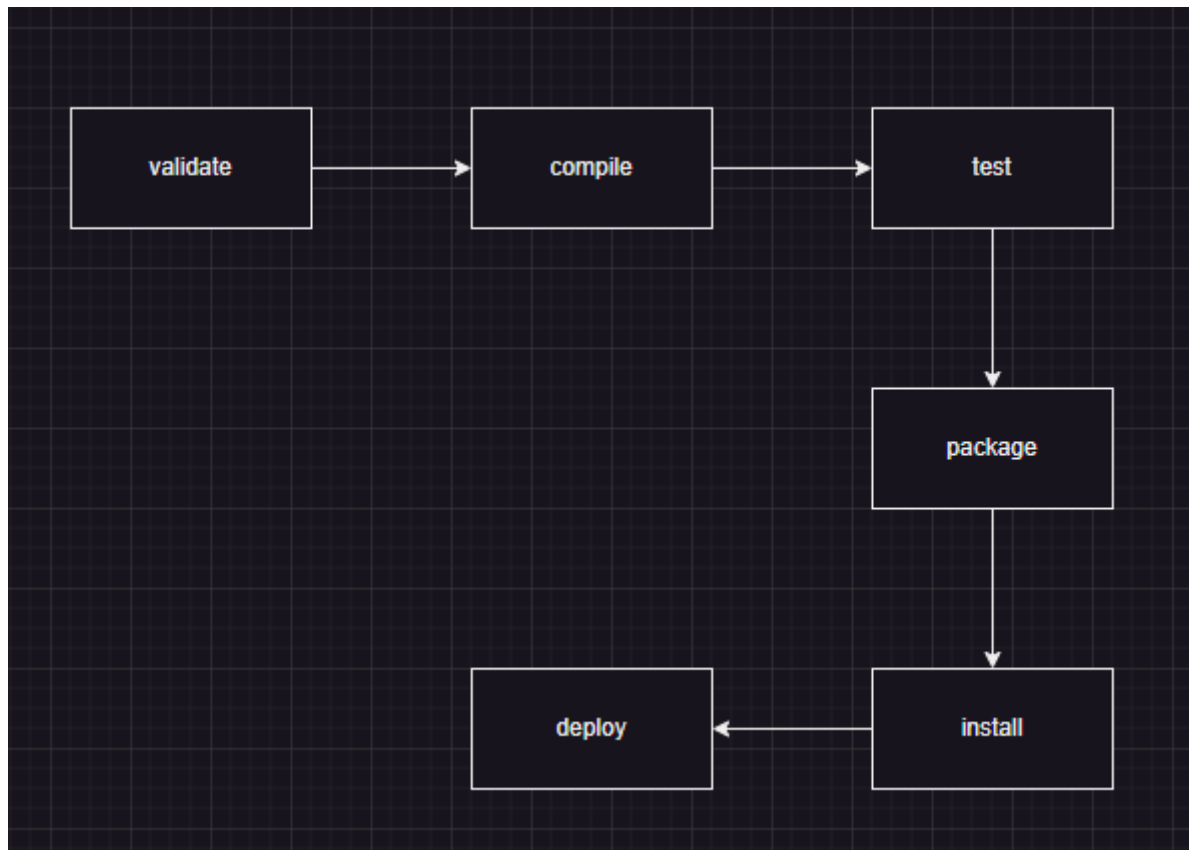
Build tools

Maven

- Maven is a Project Management Tool, which can help in doing the following for java based languages
 - Dependency Management
 - Life cycle
 - validate: verifies if the project is configured correctly
 - compile: creates java class files in target folder
 - test: runs unit tests in the project
 - package: packages java project into jar/war/ear depending on the setting in pom.xml
 - install:
 - deploy:
 - archetypes: they are use create projects basic structure [Refer Here](#)
- Maven follows convention over configuration
- The root folder of the project contains `pom.xml` [Refer Here](#)
- Developers are supposed to write unit tests
- As devops engineers our job is to ensure
 - build is happening correctly
 - all the test cases are passed



- Maven life cycle: when we execute the goal, all the previous goals will execute i.e. when we execute package it does validate, compile, test and then package.



- To remove target folders we have clean, generally we run using following commands

```
mvn clean package  
mvn clean install
```

- Exercise:
 - Install maven on any linux distribution
 - Try building (i need jar or war files)
 - spring petclinic [Refer Here](#). This project requires java 17
 - game of life [Refer Here](#). This project requires java 8