

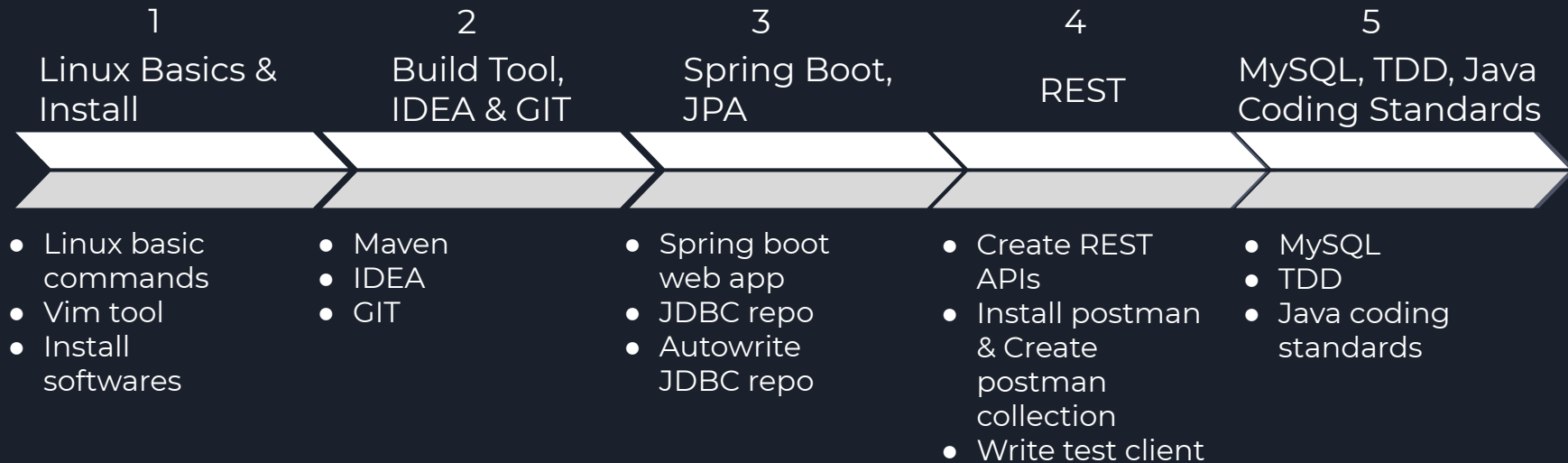


# ASE Training

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# Training Timeline



# Linux Basic Commands

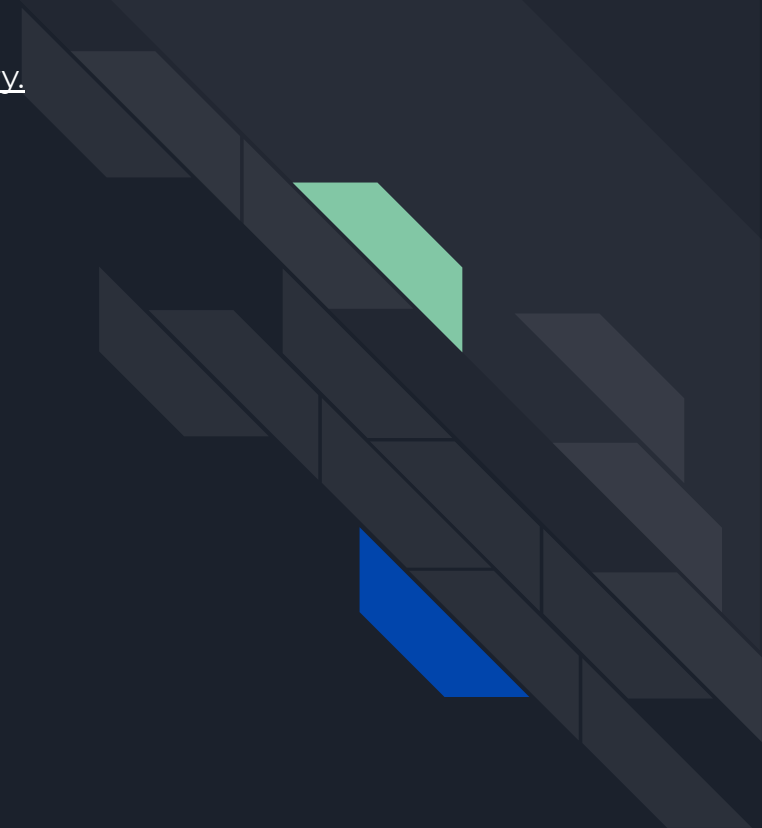
- Linux commands are run in the terminal provided by the linux system.
- Here are some example useful linux commands.
  - ls                -     Show all items
  - cd               -     Change directory
  - mkdir           -     Create new directory
  - rm               -     Delete file
  - cp               -     Copy file
  - [Click here for view Mind map for linux basic commands.](#)

# Vim Tool

- Vim is a highly configurable text editor built to make creating and changing any kind of text very efficient.
- Vim has many different editing modes like Command mode, Insert mode, Visual mode and etc.
- Vim tool plugin can be installed in to the IDE to get use of Vim shortcut commands.
- Here are some example useful commands for Vim editor.
  - `da{` - Delete content and brackets
  - `ci{` - Change inside brackets
  - `yi{` - Yank inside brackets
  - `vi{` - Select inside brackets
- [Click here for view Vim tool training project repository.](#)

# Install Softwares

- Java
  - [Click here for view Java training project repository.](#)
- MySQL
- Maven
- Vim
- Git
- IntelliJ IDEA
- MySQL Workbench
- Postman



# Maven

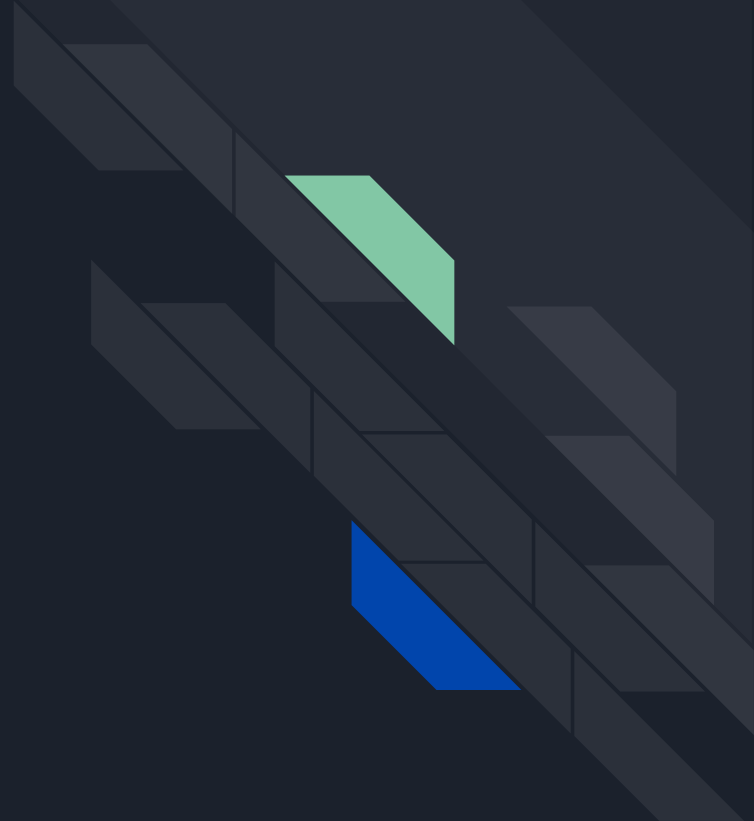
- Maven is a build automation tool used for java projects.
- Based on project object model (POM) Maven can manage the project's build, reporting and documentation.
- It has two modes line interactive mode and non-interactive mode.
- Here are some example useful commands for Maven.
  - mvn install
  - mvn compile
  - mvn test
  - mvn clean
  - mvn site
  - [Click here for view Mind map for maven commands.](#)
- [Click here for view Maven training project repository.](#)

# IntelliJ IDEA

- IntelliJ IDEA is an integrated development environment for developing computer software.
- Additional plugins also can be installed to get use of them inside the IDE.
- Here are some example useful shortcuts for IntelliJ IDEA.
  - Ctrl + / - Add or remove comment
  - Double shift - Search everywhere
  - Alt + Insert - Generate
  - Ctrl + b - Go to declaration
  - Alt + F7 - Find usage
  - [Click here for view Mind map for IntelliJ IDEA shortcuts.](#)
- [Click here for view IntelliJ IDEA training project repository.](#)

# GIT

- Git is a free open source version control system.
- Here are some example useful commands for Git.
  - `git init`
  - `git clone`
  - `git pull`
  - `git push`
  - `git add`
  - `git checkout`
  - `git commit`
  - `git branch`
  - `git status`
  - `git rebase`
  - [Click here for view Mind map for Git commands.](#)
- [Click here for view Git training project repository.](#)





# Spring Boot

- Spring boot is an open source Java based framework.
- Spring boot makes it easy to create stand-alone, production-grade Spring based applications.
- Spring boot mostly used to develop REST APIs.
- [Click here for view Spring boot training project repository.](#)

# JDBC

- JDBC is an API for Java, and it defines how a client may access a database.
- Spring Data JDBC helps to implement JDBC based repositories.
- [Click here for view JDBC training project repository.](#)

# JPA

- JPA is a java specification for accessing and managing data between java objects and relational databases.
- Spring Data JPA allows to build repositories based on spring and JPA.
- JPQL is in JPA specification and developed based on SQL syntax.
- [Click here for view JPA training project repository.](#)

# Rest API

- REST API is an application programming interface that conforms to the constraints of Representational State Transfer architectural style and allows for interact with RESTful web services.

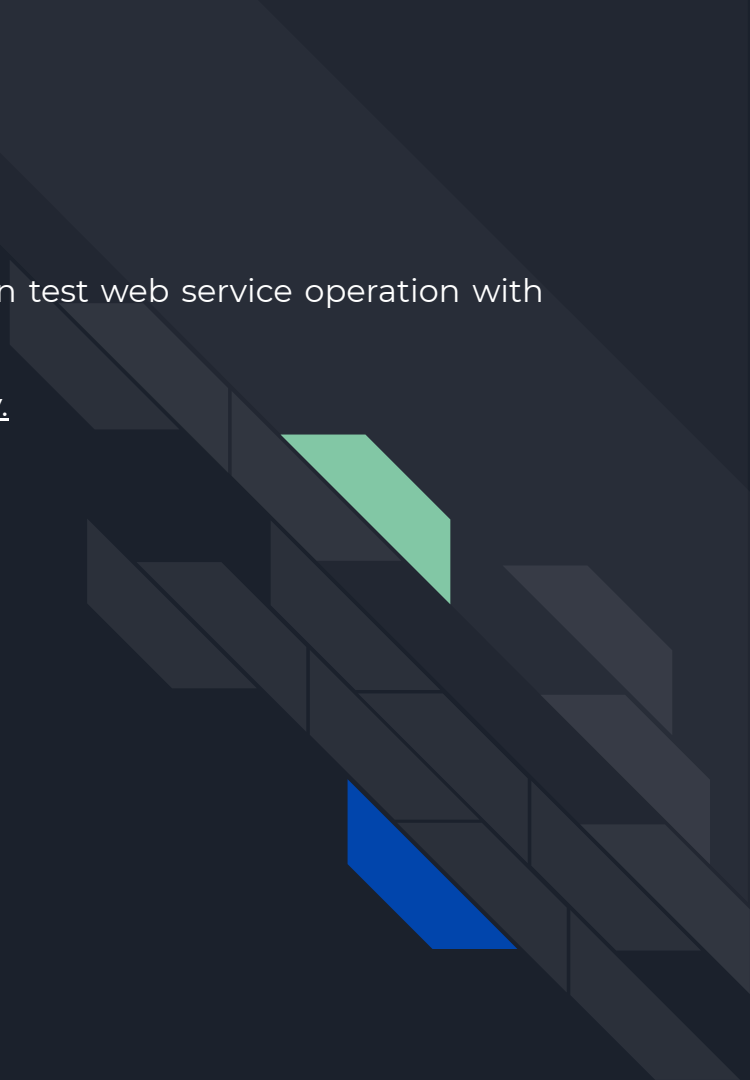


# Postman

- Postman is an API client that makes easy to create, share, test and document APIs.
- [Click here for view Postman collection of training project.](#)

# Test Client

- Test client provides a user interface through which can test web service operation with parameter values.
- [Click here for view Test client training project repository.](#)



# MySQL

- MySQL is an open source relational database management system.
- To interact with database, MySQL has commands like SELECT, CREATE, UPDATE, DELETE and etc.
- Database normalization is a process of structuring a database.
  - [Click here for view Mind map for database normalization.](#)
- MySQL Workbench is a visual database design tool.
- [Click here for view MySQL training project repository.](#)

# TDD

- Test Driven Development is a software development process that relies on the repetition of a very short development cycle.
- So here the code after modification has to be passed the test which previously designed.
- Junit framework and AssertJ library can be used for this process.
- Using maven, test report also can be generated for written tests.
- [Click here for view TDD training project repository.](#)



# Java Coding Standards

- Java code conventions are important to programmers because of improve readability and maintainability.
- Here are some example java coding standards.
  - First letter of each word in class name capitalized.
  - Package name should be all lowercase letters.
  - Method names start with lowercase letter and capitalize each internal word.
  - [Click here for view Mind map for java coding standards.](#)
- [Click here for view java coding standards training repository.](#)

Thank you!

