COURSEWARE

Professional Skills

Agile Fundamentals

Jira

Git

Databases Introduction

Java Beginner

Maven

Testing (Foundation)

Java Intermediate

- Optionals
- JDBC CRUD
- Exceptions
- SOLID Principles
- Single Responsibility
- Open/Closed
- Liskov Substituiton
- Interface Segregation
- Dependency Inversion
- Best Practice
- Design Patterns
- Creational Design Patterns
- Structural Design Patterns
- Behavioural Design Patterns
- Collection & Map
- HashSets
- HashMaps
- Enums
- Logging
- Generics
- Lambda Expressions
- Streams
- Complexity
- Input and Output
- Local Type Inference

HTML

CSS

Collection & Map

Contents

- Overview
- Maps
- Tutorial
- Exercises

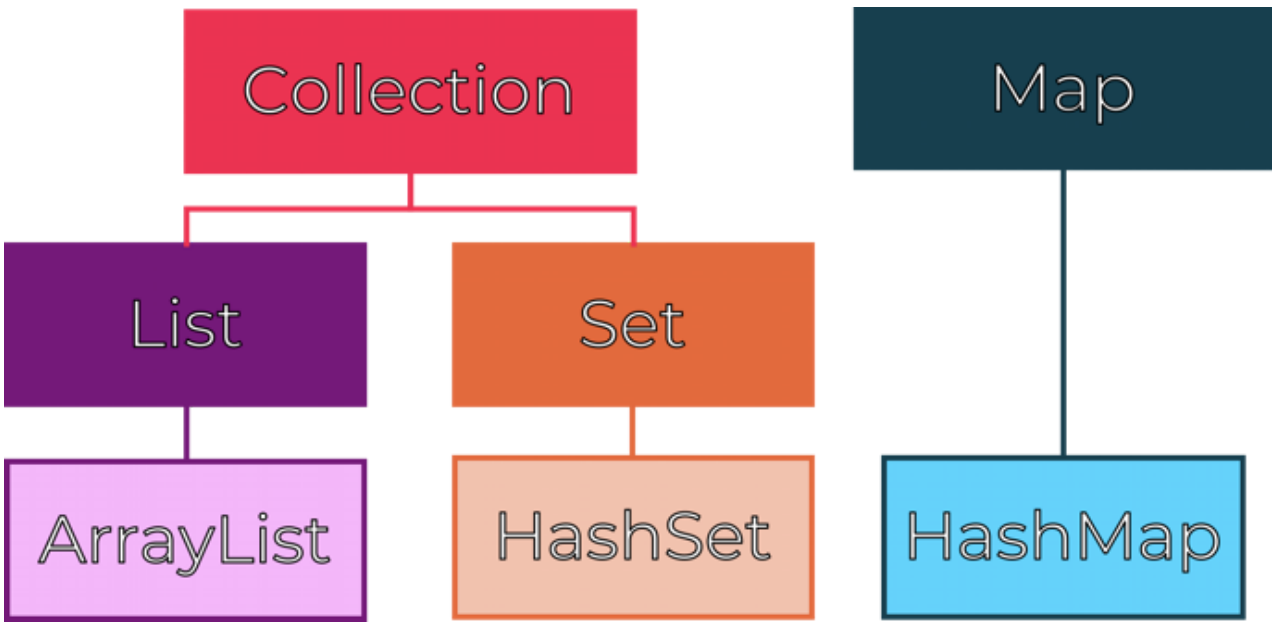
Overview

A *Collection* is a group of objects represented as a single unit.
Java provides a *Collection* Framework which defines several classes and interfaces to represent a group of objects as a single unit.
We will explore the ArrayList and HashSet classes in a subsequent tutorial.

Maps

A *Map* is an object that maps keys to values.
Java provides a *Map* Interface which several classes implement, this allows us to store key pair values in Java.
We will also explore using HashMaps in a subsequent tutorial.

Below is a diagram that highlights the key interfaces and classes we will explorer in subsequent modules:



Tutorial

There is no tutorial for this module.

Exercises

There are no exercises for this module.

Javascript

Spring Boot

Selenium

Sonarqube

Advanced Testing (Theory)

Cucumber

MongoDB

Express

NodeJS

React

Express-Testing

Networking

Security

Cloud Fundamentals

AWS Foundations

AWS Intermediate

Linux

DevOps

Jenkins Introduction

Jenkins Pipeline

Markdown

IDE Cheatsheet