



Prerequisites

This seminar was developed for software developers with extensive experience in Kotlin.

Duration

This seminar includes 8 academic hours.

Premium Training

This seminar can be delivered either in Hebrew or in English. It can be delivered either online, or in a Hybrid way that allows the participants to choose whether to attend the meeting room where the training takes place or to join online.

The Lecturer

This seminar is delivered by Haim Michael, an experienced well-known software development trainer with more than 25 years of experience in software development training.

The Topics

This seminar covers the following topics:

Introduction

What is Coroutine

The `kotlinx.coroutines` Library

Light Weight Threads

The `GlobalScope`

The `launch` Builder Function

The `delay` Function

The `runBlocking` Builder Function

Structured Coroutines

The coroutineScope Function
The suspend Modifier
Suspending Functions
Global Coroutines as Daemon Threads
Coroutine Cancellation
The join Method
The finally Block
Coroutine Timeout
The withTimeout Function
The withTimeoutOrNull Function
Composing Suspending Functions
The async Function
Lazy Invocation of the async Function
Async Style Functions
Structured Concurrency
Coroutine Contexts and Dispatchers
Unconfined Dispatchers
Debugging Coroutines and Threads
Moving from One Thread to another
The Job Object
Coroutines Childs
Naming Our Coroutines
Context Elements Combining
Coroutine Scope
Sequence Flow
Asynchronous Flow
Channels
Closing Channels
Exceptions Handling