Prerequisites

This seminar was developed for lecturers, teaching assistants, and instructors who assess programming assignments or student software projects. Basic programming experience is recommended. No previous experience with Kiro is required.

Duration

This seminar includes four hours of training and hands-on practice.

Premium Training

This premium seminar can be delivered in Hebrew or English, online or in a hybrid format. The content can be adapted to any programming language, project type, assessment criteria, and academic workflow.

The Lecturer

This seminar is delivered by Haim Michael, an experienced software development trainer, lecturer, and consultant with more than 30 years of teaching experience. Haim Michael is also a Kiro Ambassador and specializes in AI-assisted and spec-driven software development.

The Topics

This seminar shows how to use Kiro IDE and generative AI to develop an AI-powered coding assessment application for evaluating student projects. The seminar includes the following topics:

AI-Powered Coding Assessment

Getting Started with Kiro IDE

Spec-Driven Development

Defining Assessment Requirements

Designing Grading Rubrics

Converting Rubrics into Specifications

Processing Student Project Submissions

AI-Based Source Code Analysis

Evaluating Functional Requirements

Assessing Code Quality and Architecture

Generating Grades and Feedback

Combining Deterministic Rules with AI

Human Review and Override

Consistency, Bias, and Academic Integrity

Privacy and Security Considerations

Hands-on: Building the Assessment Application

We can adapt the seminar to your courses, programming languages, grading rubrics, and project types. The hands-on exercise can also be customized around a representative student project or assessment workflow from your institution. To develop an application that assesses a project using AI, you'll need an API key to use the LLM model you want.

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