**DevPath** - I**nteractive learning system for software engineering students**

SE-A-9

Amit Yushkevitch; amityyu@ac.sce.ac.il

Noa Shtiman; noa1262@icloud.com

Advisor: Dr. Hadas Chassidim

SCE - Shamoon College of Engineering, Be’er-Sheva

The DevPath project aims to develop an interactive learning system for software engineering students, focusing on mastering essential industry tools such as Git, Jira, unit testing, and system architecture. The system follows an iterative learning approach, enabling students to practice and receive real-time feedback. The main challenge was designing a structured learning process that enhances practical skills and bridges the gap between theory and real-world application. Students perform tasks that mimic real-world scenarios that are designed to involve the learner in each step of the process. The system also provides instructors with tools for tracking and evaluating students' progress, offering personalized guidance. By incorporating artificial intelligence, DevPath adapts learning paths to individual students, making the process more efficient and engaging.

Keywords: git; iterative learning; Jira ; software engineering ; system architecture ; unit testing;