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Abstract
Computer programming is one of the most important courses in the department of Information Management and other related disciplines. This study formulates an alternatively pedagogical approach that integrates constructive, collaborative, situated learning, and problem-solving process in computer programming teaching. The proposed modified van Hiele Model has focused on the conceptual knowledge of thinking levels in programming and on the role of instruction in raising levels of critical thinking for a web-based implementation. Collectively, collaborative learning tools include: e-mail, discussion boards, assignment units, tutorial units, quick-run units, expert templates, and knowledge management sub-system, which are all integrated into the environment to increase student satisfaction and achievement by stimulating student motivation and encouraging the perception of problem solving and programming as a learning project.
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