

# Pengembangan Plugin Question Type pada Moodle berupa Concept Map dengan Metode Kit-Build = The Development of Plugin Question Type on Moodle in the form of Concept Map using the Kit-Build Method

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## Abstrak

Pada era pandemi COVID-19 seperti ini, sistem pembelajaran dialihkan menjadi pembelajaran jarak jauh yang dilaksanakan secara online, tak terkecuali dengan kegiatan ujian. Sistem pembelajaran jarak jauh membutuhkan berbagai sarana teknologi yang dapat mendukung proses penilaian keseluruhan pembelajaran seperti sistem Computer-Based Test (CBT). Salah satu sarana yang mendukung dalam pengukuran pemahaman siswa yaitu dengan concept map. Penilaian pada concept map biasanya sulit dilakukan karena tidak ada batasan bagaimana concept map harus dibangun. Oleh karena itu, terdapat pendekatan alternatif lain yaitu framework Kit-Build concept map. Saat ini, sudah ada plugin question type pada Moodle untuk jawaban berupa concept map, namun belum terdapat plugin question type pada Moodle berupa concept map yang menerapkan metode Kit-Build. Penelitian ini bertujuan untuk memenuhi kebutuhan dosen dan mahasiswa terkait pelaksanaan ujian online dengan menciptakan plugin question type pada Moodle berupa concept map dengan metode Kit-Build. Penelitian ini menggunakan metode Software Development Life Cycle (SDLC) Waterfall untuk pengembangan dan User-Centered Design untuk perancangan desain antarmuka. Dengan ini, penelitian menghasilkan plugin question type pada Moodle dengan metode Kit-Build untuk dosen dan mahasiswa. Selanjutnya, dilakukan evaluasi untuk menilai usability perancangan desain secara kualitatif dengan usability testing dan kuantitatif melalui kuesioner System Usability Scale. Selain itu, dilakukan functional test untuk melakukan validasi apakah kebutuhan fungsional yang dikembangkan sudah terpenuhi atau tidak. Hasil perhitungan dari evaluasi SUS menunjukkan skor 86.428 dengan predikat A yang artinya sudah cukup baik.

.....In the era of the COVID-19 pandemic, the systems of learning that we normally use has shifted towards a more online and distance learning, an example of this is the implementation of online exam activities held through zoom. Distance learning systems require various technological tools that can support the overall learning assessment process such as the Computer-Based Test (CBT) system. One of the tools that supports the measurement of student understanding is the concept map. Assessment of a concept map is usually difficult because there are no limits as to how the concept map should be constructed. However, there is an alternative approach to solve this issue which is through the Kit-Build concept map framework. Currently, there is a question type plugin on Moodle for answers in the form of concept maps, but there is no question type plugin on Moodle in the form of concept maps that apply to the Kit-Build method. This study aims to meet the needs of lecturers and students regarding the implementation of online exams by creating a question type plugin on Moodle in the form of a concept map using the Kit-Build method. This research uses the Waterfall Software Development Life Cycle (SDLC) method for development and User-Centered Design for interface design. With this, the research resulted in a question type plugin on Moodle with the Kit-Build method for lecturers and students. Furthermore, an evaluation was carried out to assess the usability of the design qualitatively through usability testing and quantitatively through the System Usability

Scale questionnaire. In addition, a functional test is conducted to validate whether the functional requirements developed have been met or not. Using the SUS evaluation, we also managed to accumulate a score of 86,428 with an A predicate, this number indicates an excellent result.