

ABSTRAK

Rizan, Mohammad Shahrukh. 2022. *Implementasi Metode Rapid Application Development (RAD) Pada Rancang Bangun Sistem Penilaian Angka Kredit Dosen (Studi Kasus : Teknik Informatika UMRAH)*, Skripsi. Tanjungpinang: Jurusan Teknik Informatika, Fakultas Teknik, Universitas Maritim Raja Ali Haji. Pembimbing I: Eka Suswaini, ST., M.T. Pembimbing II: Muhamad Radzi Rathomi, S.Kom., M.Cs.

Aplikasi Penilaian Angka Kredit Dosen merupakan sistem yang digunakan menginput dan mengelola penilaian angka kredit yang dilakukan oleh dosen. Dalam melakukan input angka kredit yang dilakukan masih menggunakan cara konvensional yaitu dengan *microsoft excel*. Tentunya di masa sekarang ini dinilai kurang efektif. Untuk mengatasi permasalahan tersebut, dibutuhkan pengembangan Sistem Penilaian Angka Kredit Dosen. Penelitian ini menggunakan metode pengembangan *Rapid Application Development (RAD)*. RAD yang digunakan menggunakan empat fase pengembangan yaitu fase analisis perencanaan, fase analisis modeling, fase desain modeling, dan fase konstruksi. Pada fase analisis perencanaan diperoleh hasil analisa kebutuhan fungsional dan non fungsional. Pada fase analisis modeling diperoleh gambaran sistem yang telah berjalan sebelumnya. Pada fase desain modeling diperoleh perancangan sistem menggunakan *Unified Modeling Language (UML)*, *Entity Relationship Diagram (ERD)*, dan perancangan sistem. Pada fase terakhir yaitu fase konstruksi, diperoleh hasil implementasi dari fase-fase yang telah dilakukan sebelumnya, seperti gambaran sistem yang telah jadi dan pengujian menggunakan *Black-Box Testing* dan *User Acceptance Testing (UAT)*. Hasil pengujian memperlihatkan bahwa fungsionalitas dari Aplikasi Penilaian Angka Kredit Dosen bekerja dengan baik dan sesuai dengan kebutuhan Pengguna.

Kata kunci: Penilaian Angka Kredit, *Rapid Application Development (RAD)*

ABSTRACT

Rizan, Mohammad Shahrukh. 2022. Implementation of the Rapid Application Development (RAD) Method in the Design of Lecturer Credit Score Assessment System (Case Study: UMRAH Informatics Engineering). Thesis. Tanjungpinang: Department of Informatics Engineering, Faculty of Engineering, Raja Ali Haji Maritime University. Advisor: Eka Suswaini, ST., M.T. Co-advisor: Muhamad Radzi Rathomi, S.Kom., M.Cs.

The Lecturer Credit Score Assessment Application is a system used to input and manage the credit score assessment carried out by lecturers. In inputting credit numbers, the conventional method is still using Microsoft Excel. Of course, at the present time it is considered less effective. To overcome these problems, it is necessary to develop a Lecturer Credit Score Assessment System. This research uses the Rapid Application Development (RAD) development method. The RAD used uses four development phases, namely the planning analysis phase, the modeling analysis phase, the design modeling phase, and the construction phase. In the planning analysis phase, the results of functional and non-functional requirements analysis are obtained. In the modeling analysis phase, an overview of the system that has been running before is obtained. In the modeling design phase, system design is obtained using the Unified Modeling Language (UML), Entity Relationship Diagram (ERD), and system design. In the last phase, namely the construction phase, the results of the implementation of the previous phases were obtained, such as an overview of the finished system and testing using Black-Box Testing and User Acceptance Testing (UAT). The test results show that the functionality of the Lecturer Credit Score Assessment Application works well and is in accordance with User needs.

Keywords: Credit score, Rapid Application Development (RAD)