

Universiti Teknologi Mara

Using Model Driven Architecture (MDA) approach for UiTM
Student Record Tracking System

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ABSTRACT

This thesis research mainly focused on Using Model Driven Architecture (MDA) approach for UiTM Student Record Tracking System. It studies the MDA architecture which consist of three major step which are; Computation Independent Model (CIM) which represent the business knowledge of the system, Platform Independent Model (PM) that captured the specification of system functionality and Platform Specific Model (PSM) which is view of the system from the platform specific view point. The Enterprise Architecture 7,5 software is used to produce the entire three major models in MDA approach for the case study. By using this tool, it helps to transform PIM to PSM. This thesis research is as a solution to the problem occurs in Pengurusah Rekod Pelajar dan Konvokesyen UiTM regarding record about student campus changes and study mode changes. The purpose of this research to Unit Rekod is to produce a model for designing proper system in the future to solve their current problem based on MDA approach. This thesis research has three objectives that need to be achieved. The first objective is to understand the Model Driven Architecture approach. The second and third objectives are to identify the process in the Model Driven Architecture approach and to construct system engineering model for UiTM Student Record Tracking System based on MDA approach. The achievements of the objectives are done through interviewing the staff of Unit Rekod Pelajar dan Konvokesyen as well as review of related literatures in order to understand the concepts applied in this project. Due to the research, the designing model of the UiTM Student Record Tracking System will help to develop the full system with more agile and increase the productivity and the quality of the Unit Rekod Pelajar dan Konvokesyen UiTM.

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