

UNIVERSITI TEKNOLOGI MARA

**REQUIREMENT LIFECYCLE
MANAGEMENT FOR MYRA
MONITORING SYSTEM**

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IT Project submitted in partial fulfillment
of the requirements for the degree of
Master of Science in Information Technology

Faculty of Computer and Mathematical Sciences


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AUTHOR'S DECLARATION

I declare that the work in this report was carried out in accordance with the regulations of Universiti Teknologi MARA. It is original and is the result of my own work, unless otherwise indicated or acknowledged as reference work. This report has not been submitted to any other academic institution or non-academic institution for any other degree of qualification.

In the event that my report is found to violate the conditions mentioned above, I voluntarily waive the right of conferment of my degree to be subjected to the disciplinary rules and regulations of Universiti Teknologi MARA.

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ABSTRACT

The Malaysian Research Assessment (MyRA) is an instrument used by Ministry of Education (MoE) of Malaysia to assess the research capacity at the local universities (public and private universities in Malaysia). It measures excellence by assessing the distance of the university is from a profile (benchmark) that is deemed excellent for a Malaysian Research University (MRU). To excel in the MyRA, this university must have better system to manage all the valuable data required in the MyRA. Looking on the implementation of Information, Communication and Technology (ICT) in Universiti Teknologi MARA, all the information (data) required by the MyRA instruments are placed in several medium and certain level of accessibility. Some of the data able to capture through a system, some comes in an excel format while the others require an effort to search online. Level of accessibility for each data also is different depending on the data owner. Realizing that directly proceed to the system development activities is a high risk, thus this study aim to verify the requirements of the system prior to development stage. This study narrow down the scope by just concentrating on the sections in the MyRA Instrument Form that capturing data from several system owned by the Research Management Institute (RMI). The requirements were defined by using three requirement elicitation techniques that are ethnography, introspection and observation. Then by using rapid prototyping tool, the prototype of defined requirements was developed after requirement analysis process. From the User Acceptance Test upon the prototype with MyRA Team, found that the prototype of the defined requirements meet stakeholder's need. Due to limitation of this study, future work were suggested to cover sections that capturing data from other system such as STARS, SIMS, IPSIS and FAIS owned by the Office of Information Technology (InfoTech) and also sections that using data from Microsoft Excel Spreadsheet from departments and faculties without any single storage to store their data.

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Shah Alam

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