# Literature Review on Software Requirement Specification

**Muhammad Zakaria, 2111600686@student.budiluhur.ac.id**

**Master in Computer Science**

**Budi Luhur University**
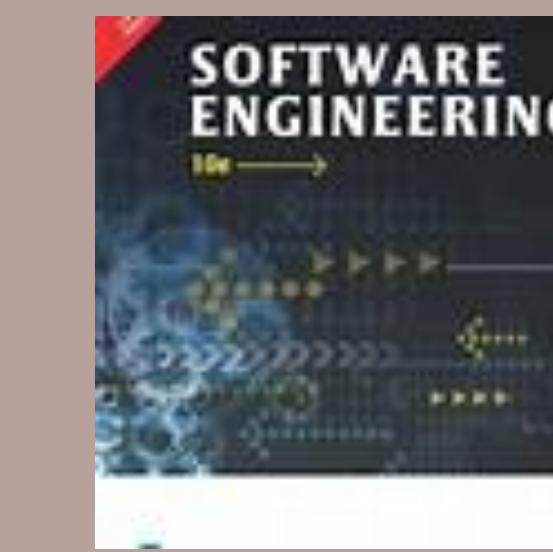
| Source | Agung Sediyono, Anung Ariwibowo, 2017 | L. Jelaia, E. Mita, S. Samson Juan, 2020 | Dwi Januarita, Wahyu Adi Prabowo, 2020 | Fauziah binti Zainuddin, Ruzaini bin Abdullah Arshah, Rozlina binti Mohamad, 2018 |
|---|---|---|---|---|
| Research Topik | Software Requirement Specification of Intelligent System for Monitoring and Preventing Smartphone Addiction | Knowledge Representation Framework for Software Requirement Specification | Software Requirement Specification Sistem Informasi Manajemen Rumah Makan Berdasarkan ISO/IEC/IEEE 29148-2018 | Software Visual Specification for Requirement Specification Validation |
| Proposes | This research proposes a model of intelligent system software to monitor smartphone usage and give recommendation for its users to prevent addiction. | This paper will discuss a framework based on the knowledge based method, an attempt to improve knowledge representation. | The result of this method is a software requirements specification document (SKPL) as a reference document for all activities carried out during the development of this information system | This paper describes a procedure in transforming the informal specification into specification visual specification. |
| Metode | Use Case Diagram | Input, Proses, Output Flow Diagram | Use Case Diagram | Database Relation Diagram |
| Findings | The paper using Enterprise Architecture and Use Case Diagram for the explain this Software Requirement | Using Swimlane for explain Input-Process-Output of the application | The paper using Framework and Use Case Diagram wth tabel for the explain this Software Requirement | The paper using Visualization Taxonomy, Tabel, and relation database for explain software requirement |
| Strengths | The paper is very easy to understand because it provides a clear description of the use cases for each role | Really very good to explan data processing in the input process output Diagram | The paper is very easy to understand because it provides a clear description of the use cases and explanation table | This paper shows data from respondents and has a good explanation |
| GAP | Futher stage in this research is system analysis for software design spesification that will consist of at least class diagram, sequence diagram, and deployment diagram. | For future work, the proposed framework will be developed into a working tool. It will be tested with the software requirement specifications from various domains. | In the future, we must measure the effectiveness and efficiency of using the application | In the future, we must measure the effectiveness and efficiency of using the application |

## INTRODUCTION

A literature review is a critical analysis of previous research about a specific topic. This is different from a literature review for a research project, where use past research findings to identify and justify new research topic. This SOTA Method Organising and synthesising previous research around Software Requirement Specification

Software Requirement Specification (SRS) play a vital role in software development. It is a fundamental document which consists of a set of requirements that forms the foundation of software development process.
The quality of the SRS is crucially important because requirement is a basic of a system the molds the shape of the system the need to be developed. Poor quality SRS does not only lead to poor quality software but also increase in development and sustainment costs which cause major schedule overruns.

## REFERENCES

[1] Fauziah, Ruzaini, Rozlina. Software Visual Specification for Requirement Engineering Education. Pahang, Malaysia University. 2018

[2] Januarita , Dwi. Adi Prabowo. Wahyu. Software Requirement Specification Sistem Informasi Manajemen Rumah Makan Berdasarkan ISO/IEC/IEEE 29148-2018. Institut Teknologi Telkom. 2020

[3] L. Jelaia, E. Mita, S. Samson Juan.  Knowledge Representation Framework for Software Requirement Specification. Universiti Malaysia Sarawak. 2020.

[4] Sediyono. Agung, Ariwibowo. Anung. Software Requirement Specification of Intelligent System for Monitoring and Preventing Smartphone Addiction. Trisakti University. 2017

[5] Setyawan Widyarto(2022). Rancangan Perangkat Lunak(1st ed.). International Commu Forum (ICF).

[6] https://library.aut.ac.nz/doing-assignments/literature-reviews

**INTERNATIONAL COMMUNITY FORUM (ICF)**