

## Perancangan Rekayasa Kebutuhan pada Aplikasi *Fraud Deterrence Propeller* Dengan *Kotonya and Sommerville Linear Process Model*

Muhammad Hazim Abubakar<sup>1</sup>, Arfive Gandhi<sup>2</sup>, Koenta Adji Koerniawan<sup>3</sup>

<sup>1,2</sup>Fakultas Informatika, Universitas Telkom, Bandung

<sup>3</sup>Fakultas Ekonomi dan Bisnis, Universitas Telkom, Bandung

<sup>1</sup>mhazimabubakar@students.telkomuniversity.ac.id, <sup>2</sup>arfivegandhi@telkomuniversity.ac.id,

<sup>3</sup>koentaadji@telkomuniversity.ac.id

---

### Abstract

*Cases of fraud are increasingly prevalent. This action often occurs because of the opportunities and pressures that encourage the perpetrators. Fraud generally occurs in financial reports that result in financial losses for certain parties. Therefore, the Fraud Deterrence Propeller (FDP) application was developed as a solution that aims to prevent fraud and detect fraud. One of the crucial stages in software development is requirements engineering. This stage aims to collect, analyse, and document user requirements for the software to be built. The model used for the requirements engineering process is the Kotonya and Sommerville Linear Process Model. The four main stages in this model are requirements gathering, requirements analysis, requirements documentation, and requirements validation. The model was chosen because it applies a linear process that is structured and organised, and is suitable for use in projects that already know the purpose of the application to be developed. The validation results state that the needs of the stakeholders have been met. From the research that has been done, this method can implement an effective requirements engineering process before starting the code implementation. By applying this method, the author can produce software that fulfils all functionality so that it meets the expectations of users and stakeholders.*

**Keywords:** *fraud, fraud deterrence propeller, software development, requirements engineering, kotonya and sommerville linear process model*

---