ABSTACT

MOBILE-BASED RAIL AND BRIDGE (JJ) MANAGEMENT APPLICATION DESIGN AT PT. INDONESIAN RAILWAY (PERSERO) DAOP 5 PURWOKERTO

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PT. KAI (Persero) Operational area 5 Purwokerto provides various services including passenger transportation services, freight transportation, procurement of goods and services, information systems, passenger facilities, railroads and bridges (JJ). The current discussion is in more depth on the inspection and maintenance of Railroads and Bridges (JJ). As for service standards for inspection and maintenance, such as shifting points, installing points, checking bends, and so on. Management of inspection and repair data is currently in a state of use in a conventional way, namely by typing the data using Microsoft Excel. It is less efficient and effective if done in the present. Methods of discussion, interviews and literature studies were carried out to collect data. Based on the problems above, the right solution is to make a low fidelity design which is very useful, namely concept testing, low costs, saving company costs, identifying market needs, evaluating different design concepts. The application of the Purnarupa method is used to create low fidelity in the KAI Maintenance application. method Purnarupa is appropriate because it saves more time in system development. In addition, determining excellence is also easier to implement.

Keywords : KAI Maintenance, Application, Purnarupa, UML, Low fidelity.