

ABSTRAK

Perancangan Adopsi Komputasi Awan Menggunakan Model Layanan *Information As a Service (IAS) Pada Informasi Akademik*

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Ketika teknologi komputasi awan diadopsi di bidang akademik dapat dipastikan bahwa model layanan komputasi awan yang sering digunakan terdiri 3 model yaitu *Infrastructure as a Service (IaaS)*, *Platform as a Service (PaaS)*, *Software as a Service (SaaS)*. Dalam penelitian ini *Information as a Service (IAS)* adalah model layanan pada teknologi komputasi awan yang digunakan sebagai rancangan adopsi komputasi awan. Fokus utama yang menjadi dasar pada penelitian ini adalah mendapatkan nilai prioritas informasi akademik dari persepsi mahasiswa melalui data questioner, dan posisi IAS sebagai model layanan komputasi awan. Untuk mencapai tujuan penelitian ini maka dilakukan studi literatur, survey, merancang sistem informasi akademik berdasarkan nilai prioritas yang dihitung menggunakan *fuzzy-logic*. Hasil dari penelitian ini didapatkan berupa 174 sampel dari questioner yang disebar berdasarkan rumus *slovin* dan didapatkan nilai tertinggi sebesar 73, 1143 pada informasi *student performance*, dan nilai terendah sebesar 64,6277 pada informasi *account balances* dari 24 informasi akademik. Selanjutnya rancangan informasi akademik dibuat yang terdiri dari *class diagram*, *sequence diagram*, *use case diagram*, *activity diagram* dan *interface* informasi akademik.

Kata kunci: *model layanan komputasi awan, information as a service (IAS), fuzzy logic, informasi akademik.*

ABSTRACT

Design of Cloud Computing Adoption Using Information Service As a Service (IaaS) Model On the Academic Information

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Currently the Cloud Computing Technology adopted in academics can be ascertained that the model of cloud computing services that are frequently used to consist of 3 models namely Infrastructure as a Service (IaaS), Platform as a Service (PaaS), Software as a Service (SaaS). In this research Information as a Service (IAS) is a model of services on cloud computing technology that is used as the draft adoption of cloud computing. The main focus of the research is gaining value priority academic student perception of information through data questioner, and position Information as a Service (IaaS) as a model of cloud computing services. To achieve the objectives of this research study was done of literature, a survey of the academic information system designing based on the priority value calculated using fuzzy logic. The result of the penenlitian is obtained in the form of 174 samples of questioner deployed based on slovin formula and obtained the highest score of 73, 1143 on student performance information, and the lowest value of 64.6277 on the information the account balances of academic information 24. Further academic information design is created that consists of class diagrams, sequence diagrams, use case diagrams, activity diagrams and academic information interface.

Keywords: *cloud computing service models, information as a service (IAS), fuzzy logic, academic information.*