

Analisis performa video streaming semantik interaktif invidance = Performance analysis of invidance interactive semantic video streaming

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Abstrak

Invidance merupakan sebuah aplikasi video streaming semantik interaktif berbasis Web bertemakan tari tradisional Indonesia. Sistem database Invidance terdiri dari dua bagian, yaitu sistem admin dan sistem viewer. Sistem admin berfungsi untuk mengelola database dalam pembuatan video interaktif dengan clickable icon, sekaligus menanamkan aspek semantik pada video. Sistem viewer berfungsi pada pengelolaan database untuk menampilkan video streaming semantik interaktif. Performa pengunggahan properti video dipengaruhi oleh bitrate video, dimana semakin kecil bitrate maka semakin baik. Panjang karakter teks informasi merupakan faktor paling berpengaruh dalam performa pengunggahan properti clickable icon dan informasi juga performa pencarian kata kunci. Uji performa pada subsistem sistem viewer memberikan rata-rata response time untuk penarikan properti video sebesar 2.72 ms, penarikan properti clickable icon sebesar 2.68 ms, dan penarikan properti informasi sebesar 3.42 ms.

Invidance is an Indonesian traditional dance themed interactive semantic video streaming application based on Web. Invidance database system consists of two parts, the admin system and viewer system. Admin system serves to manage the database on creating the interactive video with clickable icon, as well as embed semantic aspects of the video. Viewer system works on database management for displaying interactive semantic video streaming. Upload performance for video properties is affected by video's bitrate, where the smaller bitrate gives a good result. Character length of information text is the most affecting factor for the performance of clickable icon and information properties upload, and for the performance of keyword search. The performance test on subsystem of viewer system gave the average response time of 2.72 ms for video properties retrieval, 2.68 ms for clickable icon properties retrieval, and 3.42 ms for information properties retrieval.