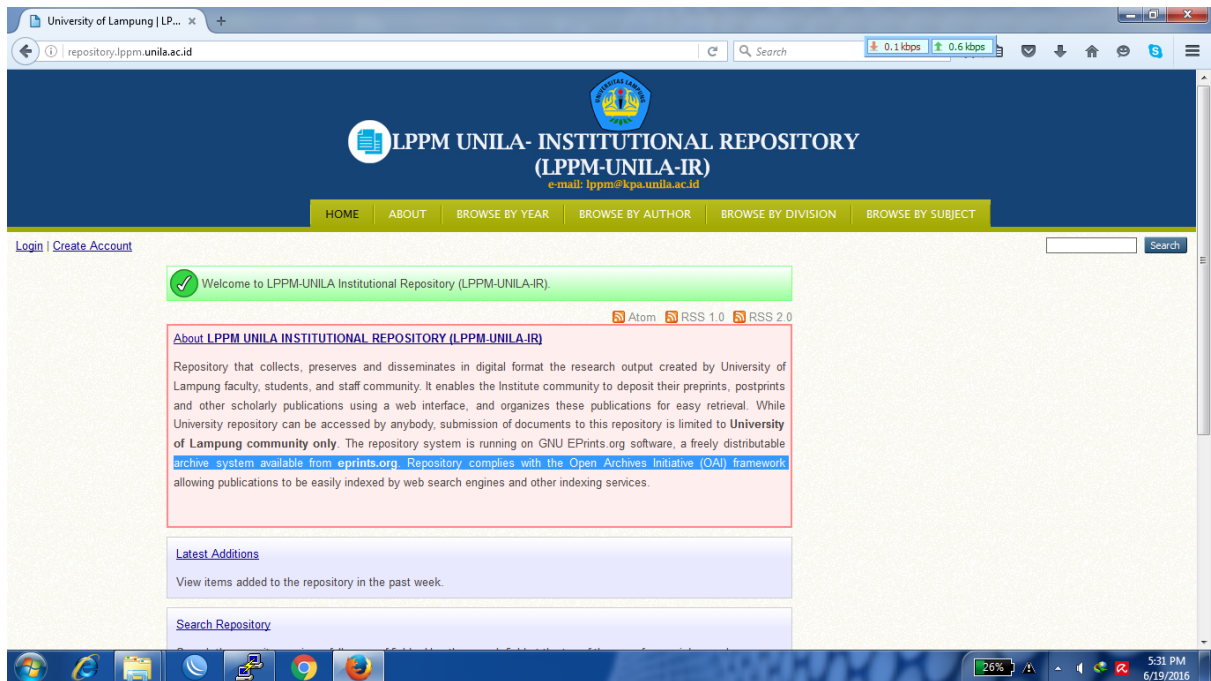
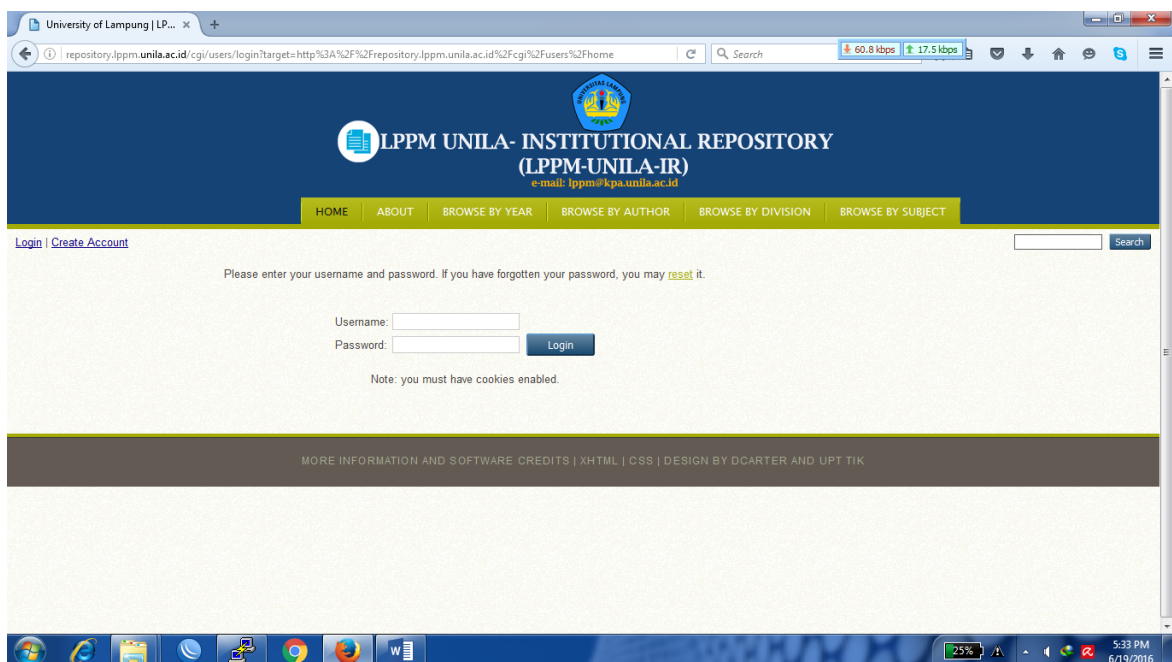


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Electricity, Temperature, and Network Utilization Monitoring at University of Lampung Data Centre Using Low Cost Low Power Single Board Mini Computer

**Abstract**

Testbed has been deployed in University of Lampung (Unila) data centre. The systems was built base on modified waterfall software engineering principles. The result presented that the system was running properly and provided data statistics of electricity, temperature, and network utilization through an interactive website interface that generated by python script. Any peculiar

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**Creators**

	Family Name	Given Name / Initials	Email
1.	Gigih	Forda Nama	gigih@eng.unila.ac.id
2.	Muhamad	Komarudin	komar@eng.unila.ac.id



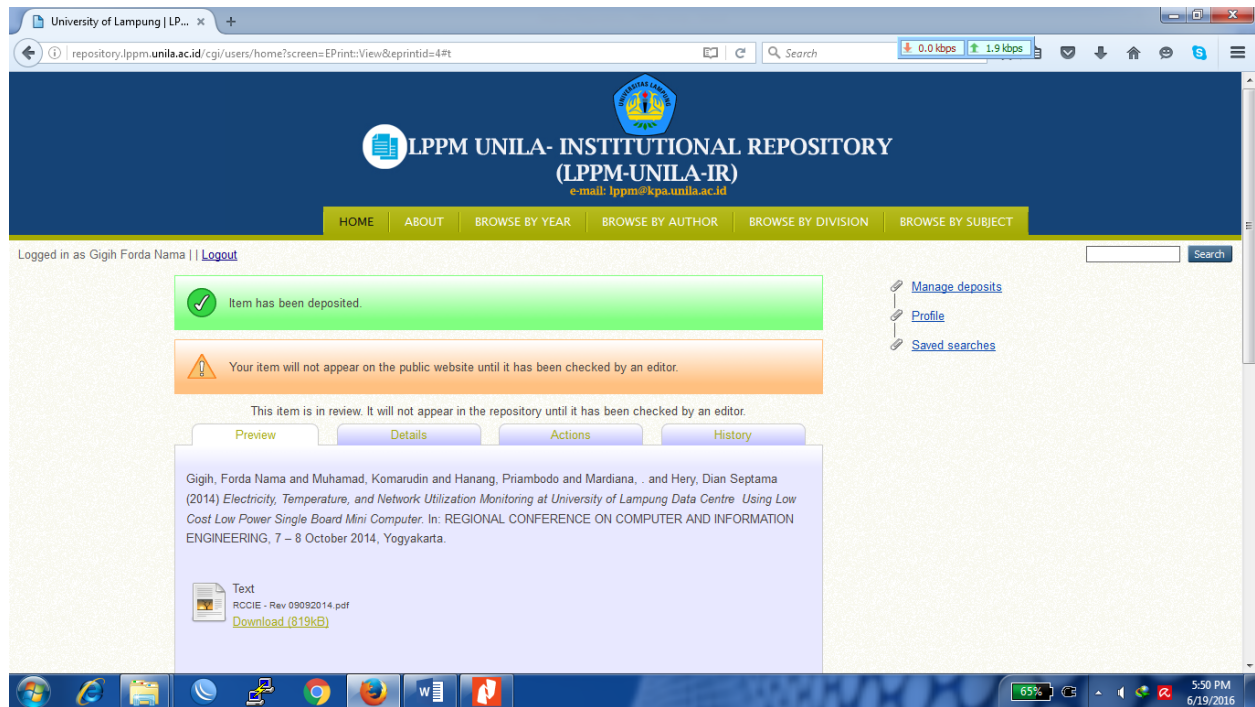
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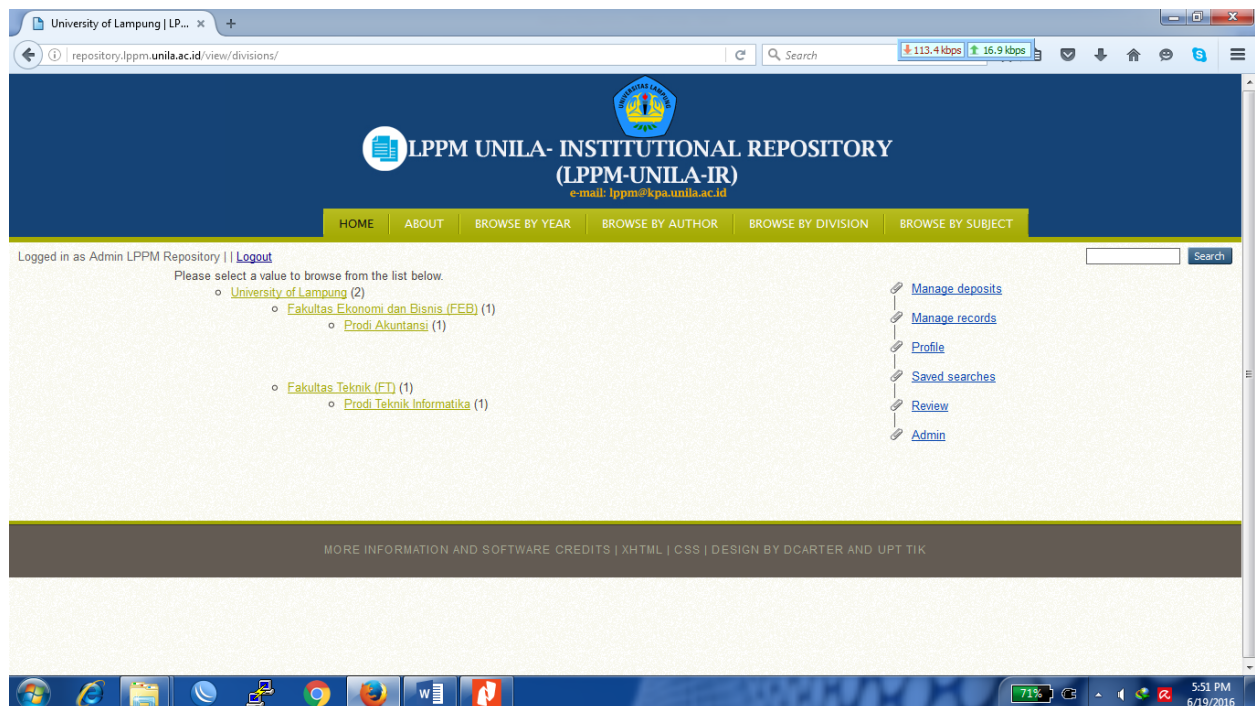
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**Abstract**

Abstract– A service-level agreement (SLA) defined contract of service between Service Provider and Customer. Usually this document contain technical values. Customer needs monitor its services to ensure the service comply with SLA. Nowadays, energy efficiency is one of most significant issue. How to provide low cost and low power for electricity, temperature, network utilization monitoring was carried out in this paper. Raspberry Pi BCM2835 as a mini computer was used to ran the services monitoring. Testbed has been deployed in University of Lampung (Unila) data centre. The systems was built base on modified waterfall software engineering principles. The result presented that the system was running properly and provided data statistics of electricity, temperature, and network utilization through an interactive website

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