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## eConf: an Information System to Manage the Conference

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## eConf: an Information System to Manage the Conference

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**Abstract.** Along with the development of times, there is a growing need for internet among the society. This is not limited to the world of education, somehow. In the world of education, especially higher education, if a lecturer wants to increase his/her rank, he/she needs some publications either in the form of journals, books, or seminar proceedings. One of publications a lecturer commonly does is a seminar both national and international seminars. In conducting the seminar registration, it requires an information system that can accommodate the registrant's data. Therefore, the purpose of this study is to design a web-based conference information system (eConf). This information system was developed using SDLC (System Development Life Cycle) method.

### 1. Introduction

The management of a conference is one of the things that is difficult for most conference organizing committees. Conference management involves the registration of seminar participants, abstract gathering, collection of full papers, and announcements about the acceptability of a manuscript in the conference. A good conference that is well managed will produce good results as well and using management information [1]–[3]. Now there are many conference management information systems that can be used e.g. Easy Chair [4], CONFSYS [5], ConfSys2 [6], Comfy [7], and others. However, all of these systems are still quite difficult system among conference executors in Indonesia. Therefore, a simple conference information system that can accommodate the implementation of the conference in Indonesia will be developed.



## 2. Method

The method used in the development of information systems of this conference is the method of SDLC (System Development Life Cycle) Waterfall type consisting of 5 stages: Requirements, Design, Execution, Testing, and Release [8][9][10]. The flow of SDLC is generally shown in figure 1.



**Figure 1.** Software Development Life Cycle Models [11]

## 3. Design and Implementation

### 3.1. Design

#### 1) Relation and Action Design

### 3.2. Implementation

## Frontend Page

**Figure 2.** Section Registrant Seminar

The registration section of this seminar functions as a registration form for participants and the speakers. The requirement fields in this form is the Phone Number field, because this mobile phone number serves as a password to perform data editing and others. To see the participants who register as regular participants, the speakers and abstract status can be seen in the recapitulation section of the registrant (figure 3).

No.	Tanggal	Nama Lengkap	Institusi	Keikutsertaan
1	0000-00-00	Kusaeri	UIN Sunan Ampel Surabaya, Indonesia	Presenter Only
2	0000-00-00	Suleiman Bashir, Umar Sodangi, Bello Kabir and Muhammed Abdullahi	Federal University Gusau, Nigeria	Presenter Only
3	0000-00-00	Riki Herliansyah, Rezy Eko Caraka and Jamilatuzzahro Jamilatuzzahro	School of Mathematical Sciences The National University of Malaysia, Malaysia	Presenter Only

**Figure 3.** Part of Registrant Data

In the recapitulation part of this registrant also that the participants can upload payments and full papers (if the abstract is well-received and they already pay the registration fee as the speakers). This can be seen in figure 4, figure 5, and figure 6.

No.	Tanggal	Nama Lengkap	Institusi	Keikutsertaan	Judul	Edit	Bukti
1	0000-00-00	Kusaeri	UIN Sunan Ampel Surabaya, Indonesia	Presenter Only	A PORTRAIT OF MADRASAH ALIYAH (MA) BASED ON MATHEMATICS NATIONAL EXAMINATION RESULTS (UN)	Edit Data	Upload Bukti Bayar
2	0000-00-00	Suleiman Bashir, Umar Sodangi, Bello Kabir and Muhammed Abdullahi	Federal University Gusau, Nigeria	Presenter Only	SURVEY OF MATHEMATICS TEACHERS CLASSROOM MANAGEMENT AND ITS IMPLICATION ON THE QUALITY OF TEACHING AND LEARNING AT LOWER BASIC EDUCATION LEVEL IN ZAMFARA STATE, NIGERIA	Edit Data	Upload Bukti Bayar

**Figure 4.** Part of Speaker

**Upload Bukti Pembayaran**

File Bukti  \* maximal size 500KB dan file yang diperbolehkan \*.jpg, \*.pdf, \*.doc, \*.docx

Nomor Registrasi  Inputkan Nomor Registrasi Pendaftarannya

**Figure 5.** Section of Uploading Proof of Payment Form

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Rekapitulasi Pendaftar

Tabs: Semua Pendaftar Peserta Pemakalah Peserta non Pemakalah Abstrak diterima Full Paper diterima

10 records per page Search:

No.	Tanggal	Nama Lengkap	Institusi	Judul	Bukti Bayar	Fullpaper	Status Fullpaper
72	0000-00-00	A Magfira Satya Apada, Michael Haryadi Wibowo, Widya Asmara	Hasanuddin University, Indonesia	The Characterization Of Polymerase Protein Basic 2 (PB2) Of Duck Origin Avian Influenza Virus	Upload Bukti Bayar	Upload Fullpaper	Belum dicek
197	0000-00-00	A. Asmawati Azis, A. Faridah Arsal, A. Bida Purnamasari	Universitas Negeri Makassar, Indonesia	Menstrual Cycle Length of Woman Aged 20 to 30 years	Upload Bukti Bayar	Upload Fullpaper	Belum dicek
83	0000-00-00	A. I. Jaya, Gifarini Soemarno, J. W. Puspita	Matematika FMIPA Universitas Tadulako, Indonesia	Classification of Epileptiform Waves Based on Frequency by Using Backpropagation Neural Network	Upload Bukti Bayar	Upload Fullpaper	Belum dicek

Figure 6. Part of Uploading Full paper

## Administration Page

This administrator page is a useful web page to see the registrant's data, verify the registrant's data and change the abstract status that has been submitted, whether accepted, rejected or revised based on the review. When the status of an abstract is accepted, participants can make payments, upload full papers, and print invitations to attend the seminar.

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Rekapitulasi Pendaftar

Tabs: Semua Pendaftar

10 records per page Search:

No.	Tanggal	Nama Lengkap	Institusi	Keikutsertaan
72	0000-00-00	A Magfira Satya Apada, Michael Haryadi Wibowo, Widya Asmara	Hasanuddin University, Indonesia	Presenter Only
197	0000-00-00	A. Asmawati Azis, A. Faridah Arsal, A. Bida Purnamasari	Universitas Negeri Makassar, Indonesia	Presenter Only
83	0000-00-00	A. I. Jaya, Gifarini Soemarno, J. W. Puspita	Matematika FMIPA Universitas Tadulako, Indonesia	Presenter Only
156	0000-00-00	A. R. Shadiqin, Endang Sri Dewi, and Sri Rahayu	Universitas Lambung Mangkurat, Indonesia	Presenter Only
152	0000-00-00	A.M. Irfan Taufan Asfar, Darmawati	Universitas Negeri Makassar, Indonesia	Presenter Only
43	0000-00-00	Abd. Rahim	Universitas Negeri Makassar, Indonesia	Presenter

Figure 7. Registration Data Section and its Status

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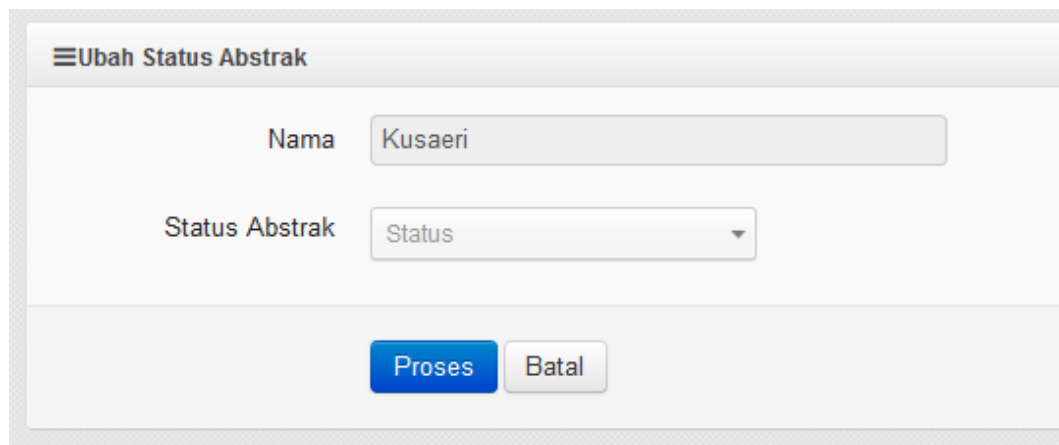
Rekapitulasi Presenter

Tabs: Semua Pendaftar

10 records per page Search:

No.	Nama Lengkap	Institusi	Judul	Status Abstrak	Bayar	Ubah
1	Kusaeni	UIN Sunan Ampel Surabaya, Indonesia	A PORTRAIT OF MADRASAH ALYIAH (MA) BASED ON MATHEMATICS NATIONAL EXAMINATION RESULTS (UN)	Diterima	Belum Bayar	Ubah Status
2	Suleiman Bashir, Umar Sodangi, Bello Kabir and Muhammed Abdullahi	Federal University Gusau, Nigeria	SURVEY OF MATHEMATICS TEACHERS CLASSROOM MANAGEMENT AND ITS IMPLICATION ON THE QUALITY OF TEACHING AND LEARNING AT LOWER BASIC EDUCATION LEVEL IN ZAMFARA STATE, NIGERIA	Diterima	Belum Bayar	Ubah Status
3	Riki Herliansyah, Rezzy Eko Caraka and Jamilatulzahro Jamilatulzahro	School of Mathematical Sciences The National University of Malaysia, Malaysia	Generalized Linear Latent Variable Models For Count Outcomes in Ecology Using TMB Package	Diterima	Belum Bayar	Ubah Status

Figure 8. Section of Changing Applicant Status (Speaker)



**Figure 9.** Section of Changing Abstract Status

#### 4. Conclusion

Based on the development and implementation of this conference information system (eConf), it can be concluded that this information system simplifies and reduces the workload of the seminar organizing committee, because most of the work of the committee can be implemented in this eConf.

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