

# PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON MUSLIM SOCIETY AND THOUGHT SURABAYA - INDONESIA, 3 - 4 OCTOBER 2017



## IC MUST 2017 Muslim Society and Globalization

**Held by:**

Ushuluddin and Philosophy Department of Sunan Ampel State Islamic University Surabaya, Indonesia  
and Fakulti Pengajian Islam Universiti Kebangsaan Malaysia



UIN SUNAN AMPEL  
SURABAYA



UNIVERSITI  
KEBANGSAAN  
MALAYSIA  
National University  
of Malaysia

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## PROCEEDINGS

The 1<sup>st</sup> International Conference on Muslim Society and Thought  
“Muslim Society and Globalization” held by Ushuluddin and  
Philosophy Department of Sunan Ampel State Islamic University  
Surabaya, Indonesia and Fakulti Pengajian Islam Universiti Kebangsaan  
Malaysia.



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## Preface

Let me brief you a little bit about the background of this conference. This conference is organized jointly by the Sunan Ampel State Islamic University in Surabaya and the Universiti Kebangsaan Malaysia.

The idea behind this conference is our common interest in the need to understand better the nature, future and the fate of our Islamic communities in this very difficult time. We also are interested in developing new theories and critical views of our environment in which our religion of Islam is part of. This conference is therefore aimed at offering new understanding concerning our community and also of our religion vis-à-vis modernity. It also is aimed at challenging uncritical and unsympathetic views not only concerning Islam but also on other religions and religious communities at large.

At the practical level, we gather here to build a commitment on the necessity of working together for the betterment of our Islamic community but also for humanity in general. Researchers and scientists should have a common view on how a better community can be achieved. Scientists like ourselves have a moral obligation to do something to build a better future. And what we can do toward that end is to share our views and expertise and see how that can be applied on the ground. In a nutshell, we gather here to build an intellectual platform on which our commitment to nourish the Islamic community can be carried out.

A gathering such as this is a matter of urgency, considering that our community and religion –like any others- faces serious and demanding challenges. Whether we can survive

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these challenges or not very depends upon our ability to organize ourselves. Two things must be done to survive the challenges. First is to explore the potentials of the Islamic community in such a way as to make them ready to face those challenges. Our community cannot stay silent and passive in times of great difficulty such as this. Second, is to dig deep into the epistemological contents of our religion so as to provide a strong theoretical and metaphysical ground for our community to act accordingly. Hence the name of our conference is, International Conference on Muslim Society and Thought.

We do hope that you enjoy your stay in Surabaya and the conference. We equally hope that you will benefit from the conference. It has been our pleasure to organize this conference and to host you all. So, be our guests. We thank you very much.

**Abdul Kadir Riyadi**

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# HADITH INSPIRED SOFTWARE DEVELOPMENT METHODOLOGY

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## Introduction

Until recent years, there are many software development methods to create software application to support company's business automation. There are many method of developing software application, such as waterfall model, prototype, agile software development, rapid application development, dynamic system development model, extreme programming, feature driven development, joint application development, lead development, rational unified process, scrum development, and so on. Jamsheer K explains these methods in detail (Jamsheer K., 2017). Each of those methods has the advantages and disadvantages. Since none of these methods which are considering Quran and hadith as its guidance, it is important to conduct a research to find how we conduct methodology of software development.

In this research paper, the construction will be as follow: introduction, research methodology, and result.

## Methodology

The methodology used in this research is defined as follow: literature study, define new methodology, and testing the methodology.

### 1) Literature Review.

In this step, the writer also tries find research about software development methodology and study many hadiths that can be related to this application development

methodology. The result of this step is literature review about software development methodology and some hadiths that is related to software development methodology (SDM).

### 2) Define New Methodology.

In this step, the writer identifies the pattern of software development methodology applied there. The result of this step is new methodology of software development. The methodology then will be tested in the next step.

### 3) Testing.

In this step, the writer tries to create application development methodology by developing new application based on requirement of some tested user.

## Result Related Hadis

In this part, we propose a new methodology of software development. Each step of this methodology is inspired by hadith and Quran. Some new concept in this method is considering existing application, new financial funding methodology, and new perspective of helping peoples. The process will be described later.

## Hadith Inspired Software Methodology

The research methodology described below will consider some hadith and Quran to be considered. Below is the detailed explanation of the methodology.

### 1) Identify User Expertise.

Some people or organization doesn't even know what information system is. This can be because of educational background of them, or just because they habit. In this case, it is our duty to inform them what information system is best for their organization.

مَنْ دَلَّ عَلَىٰ خَيْرٍ فَلَهُ مِثْلُ أَجْرِ فَاعِلِهِ

“Whoever guides someone to virtue will be rewarded equivalent to him who practices that good action.” (HR. Muslim: 1893).

This hadith asks Muslim information system specialist to teach all the leader of organization about information system software who doesn't know about information system. Those people usually exist in countryside.

#### 2) Identify User Requirement.

In this process, the team will try to define the user need. The result of this step is the main features of desired application. Defining user requirement, for some user, is done by trying the user to use available application that is used by similar organizations with similar requirement.

#### 3) Define Scope.

In this process, the team will define the scope of application. The developer will ask the user what to be made and what not to be made. This method requires experienced developer in this step.

#### 4) Define Time Limit.

Each of organization has time limit of information system implementation. Developing application from scratch will provide good business integration, but takes more time to develop from weeks until years, whereas for some case, information system implementation should be delivered in days, not years.

#### 5) Find Available Open Source Application Alternative.

After the scope is defined, developer will search for alternative open source technology that has similar function to the required application. The writer usually finds application in WordPress plugin, source forge, alternativeto.net, etc. WordPress plugin is usually used in web application programming. Source forge is used for many different application, desktop, website mobile, etc.

Play store is used when we want to use application in mobile device. If there is not any ready application, then building application from scratch will be a solution. Of course, the scope, user requirement, time limit, and fund limitation should be considered in deciding what methodology that will be used to build application from scratch. All available software development method does not consider existing application in their development process. They build software from scratch. Whereas, there are a lot of software which are ready to be used and needs only a few customs. Those can lead to waste of people work and time needed to develop the system. A ban of this act (not using other people work) was narrated from al-Mughirah b. Shu'bah that the Messenger of Allah (saws) said: "Allah forbids you to be ungodly, burying daughters alive, reluctant to give his property but begging for the property of others, and forbidden you three matters, lying in stories, asking questions, and wasting possessions." (Sahih al-Bukhari). A ban of this act also available in Quran surah al-Isra' [17]: 26-27. "And give the relative his right, and [also] the poor and the traveler, and do not spend wastefully. Indeed, the wasteful are brothers of the devils, and ever has Satan been to his Lord ungrateful". From these facts, the methodology of developing software should not waste another people's work. We should be able to accommodate available technology such as open-source or even closed source technology to be used.

If there is not any available software that can be used, the developer can use a fast or otomated framework of developing application, such as GroceryCrud, NoCMS, Yii, Laravel, etc because building from scratch all application can lead to wasting time and energy like *reinventing the wheel*. For some case, if there a unique project,

that has doesn't have any reusable module, developer should create application from scratch.

6) Define priority criteria.

In this step, developer had decided what had been the main reason of choosing and sorting all the software. Such as, price of the software, hardware needed for the system, language programming, available version, vendor, available modules, user review, number of downloads, programming framework, etc.

7) Test found software.

Developer will test the found software one by one. The value of priority criteria is decided in this step for all found software. Regarding this, there are some hadits that explain what should we do. Allah has ask muslims to be honest in Quran surah Muhammad [47]: 21:

فَلَوْ صَدَقُوا اللَّهَ لَكَانَ خَيْرًا لَهُمْ

“... if they had been true to Allah, it would have been better for them.”

From this surah, the developer should never lie to the customer about the test result for any purpose.

8) Choose the right software.

In this step, application is chosen using some method. It could be manual ordering system using priority criteria defined in previous step or using analytical hierarchical process if there are many applications and there are several conditions to be considered. Regarding this case, Quran explain this in al-Baqarah [2]:168.

يَا أَيُّهَا النَّاسُ كُلُوا مِمَّا فِي الْأَرْضِ حَلَالًا طَيِّبًا وَلَا تَتَّبِعُوا خُطُوَاتِ الشَّيْطَانِ إِنَّهُ لَكُمْ عَدُوٌّ مُّبِينٌ

“O mankind, eat from whatever is on earth [that is] lawful and good and do not follow the footsteps of Satan. Indeed, he is to you a clear enemy.”

*Eat* in terms of software development, can be considered as using the software itself. We should warn and explain the user of software the good and bad software. The good software is the software that suits the organization need and gotten from a good (legal) way. The bad software is the software that doesn't suit the organisation's need or gotten from illegal way, such as illegal licence, crack, copying without permission, etc.

9) Modify as needed.

The chosen software then will be customized based on user requirement. Sometimes, this step is not done if the user requirement has been full filled with open-source application.

### **Testing the Methodology**

Several information systems are made using this technology to test this new methodology. Below is some successful implementation of this method.

No	Subject	System requirement	Environment	Application	Customization
1	SDIT Firdaus: school bell system	The system should be able to play mp3 music in android phone in scheduled plan to alert the student about the next	Mobil e	(Timetune 2017), (Google Translate 2017), (Audacity 2017)	No customizati on. Google Translate is used to speak narration in 2 languages (English and Indonesia), the sound is recorded and edited

		school schedule. The schedule will be told in 2 different language.			using Audacity. The sound is then put in Timetune Application.
2	UIN Sunan Ampel: support.uinsby.ac.id	The system should be able to record the complain of teacher and students. They should be able to login using username and password from existing academic information system.	Web	WordPress, Support Plugin	Install the required plugin in the WordPress installation. After that, copy user from academic information system to the WordPress instance.
3	Yayasan Pondok Pesantren: Fingerprin	Applicati on should be able to	Deskt op	(Yayasan Indonesia Membaca 2017)	We create application to import data from



	t System	create a report of all employee along with their presence from available fingerprint sensor data. The report contains the red color for the employee who comes late or going home before its time.			fingerprint sensor to Jibas application. The report then customized to form the right report.
4	Yayasan Pondok Pesantren Alhidayah: Finance information system	Application should be able to record student payment and organizational expense. Application	Web	(Yayasan Indonesia Membaca 2017)	No customizati on.

		on should be able to create report daily and monthly.			
5	PT An Namiroh Travelindo: SMS Broadcast System	Application should be able to broadcast message to engage people to go to Makkah for Umrah. The application should support unlimited number of phonebook.	Desktop / Android Phone	(MyPhone Explorer 2017)	No customization
6	Institut Teknologi Sepuluh Nopember: Letter Archiving system	Application should be able to archive letter using web technology	Web based / mobile	(Appgini 2017)	AppGini is used to create web application automatically without modifying the code.

		gy based on specific directory.			
7	Fakulty of Vocation of UNAIR: Online Public Access Catalog using Sound	Applicati on should be able to search book catalog using sound as the input and sound as the output to be used for blind people. Applicati on should support multilang uage.	Deskt op / phone	(Bidelman 2017) - Google Web Speech API, (Gunawan 2017) - NoCMS	Google voice API is integrated into database. NoCMS is used to create backend applicatin for editing the data.

In this research, we conduct a research to develop a new methodology to develop application using Quran and Hadith as a guideline. The new methodology has been tested to develop and implement information system in some organization. The future research may try to implement another hadiths or verses in Quran to be implemented in software development methodology. The future research can also improve this methodology to deal

with application which doesn't have opensource or closed source alternative.

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