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## INFORMATION TECHNOLOGY SYSTEM INNOVATION STRATEGY APPLICATIONS OF PREMARITAL MOBILE LEARNING WITH SYSTEM DEVELOPMENT LIFE CYCLE (SDLC) METHOD

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Abtracts: Information technology strategy system is an application of the use of information technology to support or implement a competition strategy of an organization, which functions to change goals, operations, products, services or environmental relations in order to achieve such competitive advantage. Therefore, an organization needs to make a breakthrough by providing innovative products or services with the utilization of information technology systems that have not been done by other

Advisory, Counseling and Marriage Preservation Agency (Bp4) is a professional organization that is religious social as a partner of the ministry of religion in realizing sakinah family, mawaddahwarahmah. Premarital Course activity is a ministry of religion program implemented by BP4. In accordance with the Regulation of DirjenBimas Islam No.II / 372/2011 on the guideline of prenuptial training, it is conceptually held for 10 working days with 24 hours duration of lesson intended to provide sufficient understanding for the bride to the course material presented during the learning. But the facts in the field it is still difficult to do with the reasons of which is the difficulty of arranging the time course for prospective bride who is an employee.

Based on this, BP4 made a new breakthrough with the innovative learning design of pre-marital mobile larning which is the result of an information technology strategy system. Software application of pre-marital mobile learning is an innovation as a supplementation and complement of conventional pre-marital education process. The development of premarital mobile learning application system is designed using system development life cycle (SDLC) method. The application of pre-marital mobile learning uses self-learning materials stored in smartphones or computers that can be accessed by resource persons and pre-marital course participants, anytime and anywhere, resulting in a new tendency in learning that forms an increasing paradigm efficiency and effectiveness of pre-marital courses.

Key words: Information Technology, Strategy, Innovation, Application, Android

## INTRODUCTION

The main role of information system application within an institution/ organization is to provide effective support to the organization's strategy in order to gain a competitive advantage. The strategic role of Information Systems involves the use of Information Technology to develop products, services, and capabilities that provide a major advantage to the organization's competitive edge. This creates strategic information systems, information systems or supportive applications that will create competitive positions, reduce competitive weaknesses, and or to meet other organizational strategic goals.

The emphasis of strategic information technology system is focused on the following 5 points, namely: (1). Efficiency; (2). Effectiveness; (3). Communication; (4). Collaboration; (5). Strategic role. (Jogianto: 2013). In an efficiency level, information technology systems help organizations to streamline operational transaction costs in the form of Decision Support System (DSS). The idea of this role is to replace people with technology for the purpose of efficiency, with more focus on efficient data processing. The Effectiveness is no longer on the data processing, but more on the information. This information technology system will be able to assist the leadership in an effective decision-making process, with the Decision Support System (DSS). The Role of Communication is by the concept of office automation, called Office Automation System (OAS), which provides the facility to communicate electronically. The Collaboration role, by doing virtual communication process together, for example in the form of teleconference. The strategic role helps the organization to create excellence in order to win the

competition with other organizations, with the utilization of strategic information technology (SIS).

The Counseling, Coaching and Conservation Agency (Bp4) is a professional socio-religious organization, which has been accredited by the ministry of religion to conduct pre-marriage program activities at religious affairs offices. As a partner of the ministry of religion in realizing sakinah family, mawaddah, warahmah, BP4 holds a Pranikah Course activity, according to the Regulation of Director General of Islamic Guidance No.II / 372/2011 on guidelines of prenuptial education program.

Conceptually, pre-marital education courses conducted by BP4 Ministry of Religious Affairs, conducted 10 days with a duration of 24 hours of lesson, which is intended to provide sufficient understanding for prospective brides to the course materials presented during peroses to teach, but in fact the field is still difficult to implement with various reasons that melatarinya including; the difficulty of arranging the time for the prospective bride who is an employee; both civil servants, state employees, private or military employees. As a form of application of information technology strategy system at the level of effectiveness and efficiency, the Advisory Agency, Development and Conservation of Marriage (Bp4) make a new breakthrough in the form of premarital course learning innovation by utilizing information technology, in the form of mobile learning technology. At the level of Collaboration in the information technology strategy system, the process of prenuptial education conventionally conducted by the speakers of prenuptial education activities in the office of religious affairs, will be combined with premarital mobile learning learning multimedia. Learning application of pre-marital mobile learning

multimedia will be an alternative learning media for premarried participants. The multimedia application will be an alternative tool by inserting the pre-marital learning material on the pre-marital course participants' mobile phone. The content of pre-marital education material is already available in the application, so people can access it anytime and anywhere.

## STUDY OF LITERATURE

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1. Information Technology System Innovation

Strategic information technology systems are common information technology systems that can be used to implement corporate strategy. Creating or formulating a strategy is an easy process. Once the most suitable strategy is chosen, the next problem is how the process of implementing the information system strategy. To implement strategy required strategic weapons (strategic weapons). Information technology is an effective strategic weapon (Jogianto: 2013). A company strategy is a "game plan" provided by management to position the company in the chosen market arena, so as to win the competition, satisfy customers and achieve good performance. The need for a strategy as a form of activity, manner or approach that the leadership implements to satisfy customers, establish an attractive market position, and achieve organizational goals. The organization needs to have the right strategy because (1). Organizations need to actively establish activities proactively, provide ways / approaches, by providing roadmaps for operations, activity implementation tutorials, customer loyalty building planning, competitive advantage with competing organizations; (2). Declare decisions, initiation activities, coordinated and integrated planning. An information technology system supports an innovation strategy if it can find a specific way of running the organization, ie by providing the latest product or service innovation that has not been done by its competitors: (1). Creating new business strategies with meilarkankan information technology; (2). Create new ways to sell products and services that involve information technology

## 2. Pre-marital education

a. Understanding and Purposes of the Pranikah

In the Regulation of the Director General of Islamic Guidance, no. DJ.II / 542 of 2013 on the guideline of prenuptial courtship, which is meant Prenuptial coursework is the provision of knowledge, understanding, skill and growth awareness to married age teenagers about household and family life. Thus prenuptial courses are intended to provide understanding in a short time for married couples before marriage. The purpose of the prenuptial course is to improve understanding and knowledge about family / household life in realizing sakinah, mawaddahdanrahmah and reducing the number of disputes, divorce, and domestic

# b. The legal basis for conducting the Pranikah

The juridical foundation that became the legal basis for the implementation of prenuptial education is:

1). Decree of the Minister of Religious Affairs (KMA) No.477 of 2004 on providing insight into marriage and household to the bride and

2). DirjenBimas Islam Regulation no. DIII / 491 Year 2009 on bride and groom courses

3). Circular Letter of Director General of IslamNo. DJ.II / PW.01 / 1997/2009 concerning skinny

bride candidates
4) Regulation of the Director General of BimasIslamNo.II / 372 of 2011 about the guidelines for the implementation of premarital curriculum and syllabus courses.

Pre-marital education / pre-marital courses are conducted by the Advisory, Counseling and Preservation of Marriage (BP4) or other institutions that have received a credit from the Ministry of Religious Affairs. The course of the bride and groom is given at least 24 hours of lesson, and is done by lecture, dialogue, simulation and case study methods. Participants The course of the bride and groom gets the syllabus, module and certificate. Pass mark certificate is a requirement of marriage registration.

## c. Pranikah education materials

The materials in pre-marital education as stipulated in the Regulation of Director General of Islamic Guidance No.II / 372 of 2011 on guidelines for the implementation of pre-marriage courses, classified into 2 groups namely; basic groups and core groups

1. Basic Group

a. Ministry of Religious Affairs policy on sakinah family development (1 JPL)

b. Policy of Director General of Islamic Guidance on Pranikah Course (1 JPL)

c. Legislation on marriage and family coaching (3 JPL) with subject matter;

1) Marriage law and KHI, which includes; the concept of marriage, the principle of marriage, the limitation of polygamy, the limitation of marriage age, the cancellation of marriage, the marriage agreement, the common property, the rights and obligations, the status of the child and the mixed marriage.

2) Domestic Violence Law covers: Understanding Domestic Violence, Domestic Violence, Causes of Domestic Violence, Domestic Violence Effect, Legal Rules, Government and Family Responsibility

Child protection law covers children's understanding, children's rights and of children the position in d. The law of munakahat (4 JPL) with the competence to understand the provisions of sharia and munakahat with the following indicators:

1. able to explain the basic concept of marriage,

able to explain the purpose and wisdom of marriage,
3. able to explain the terms and rukun

able to explain the marriage aqad and qabul's consent,

able to explain the rights and obligations of husband and wife, able to explain the bilma'ruf,

able to explain adab marriage,

able to explain the rights and obligations of children to parents

4) Wedding procedure (1 JPL)

2. Core Group

Implementation of family functions with subject matter:

 Religious functions that include: the value of Islamic teachings in the life of the household, the maintenance of human nature, strengthening of monotheism and the development of akhlaqulkarimah

2) The reproductive function based on a sacred

marriage aqad

3) The function of affection and affection that is affection and apeksi are: basic human needs, physical and spiritual closeness of children and parents, interest in the opposite sex as sunnatullah, compassion as a foundation of charity which gives benefit to others

4) Protection function; protection, rights and obligations of married couples have the function of protection, protection of family members from violence and neglect, protection of the right of growth and development of children

 Educational function and value socialization: family function for character formation, socialization and value transmission, modeling and modeling, building fortress morality

6) Economic function; production functions to earn income, expenditures to meet family survival needs, balance between income and expenditure, family finance management.

7) Socio-cultural functions; family as the smallest unit and the core of the community, the family as the smallest social and cultural environment, the family values reflect the value in the mass, religious values of the religion. b. Caring for love in the family with the essentials: values in the family to realize bilma'rufmuasyarah include: prohibition of wasting spouse, restraint and

Mobile Learning Technology
 a. DefenitionOf Mobile learning

The term mobile learning (m-Learning) refers to the use of mobile and mobile information devices (PD) devices, such as PDAs, mobile phones, laptops and tablet PCs, in teaching and learning M-Learning is part of electronic learning (e-Learning) so that, by itself, is also part of distance learning (d-Learning).



Figure 1: m-learning scheme (MuhTamimuddin: 2008)

Some important capabilities that must be provided by learning tools m-Learning is the ability to connect to other equipment (especially computers), the ability to present learning information and the ability to realize bilateral communication between teachers and learners. M-Learning is a unique learning because learners can access learning materials, referrals and applications related to learning, whenever and wherever. This will increase attention to learning materials, make learning become pervasive, and can encourage the motivation of learners to lifelong learning

(lifelong learning). In addition, compared to conventional learning, m-Learning allows for more opportunities for adhoc collaboration and informal interaction among learners.

Mobile learning is a learning model that utilizes information and communication technology. In the concept of learning mobile learning brings the benefits of the availability of teaching materials that can be accessed at any time and the visualization of interesting material. The term M-Learning or Mobile Learning refers to the use of handheld devices such as PDAs, mobile phones, laptops and information technology devices that will be widely used in teaching learning, in this case we focus on mobile devices (mobile phones). The purpose of developing mobile learning is the learning process all the time (long life learning), students / students can be more active in the learning process, saving time because if applied in the learning process then students do not need to be present in the classroom just to collect tasks, is sent through applications on mobile phones that will indirectly improve the quality of the learning process itself.

a. Mobile Learning Functions
There are three functions of Mobile Learning in
classroom instruction, as supplement (optional),
complement (supplement), or substitution.

1. Supplements (additional)

Mobile Learning serves as a supplement (additional),
namely: learners have the freedom of choice, whether to
use Mobile Learning material or not. In this case, there is
no obligation / requirement for learners to access Mobile
Learning material. Although optional, learners who use it
will certainly have additional knowledge or insight.

2. Complement (complementary)
Mobile Learning serves as complement (complementary),
namely: the material is programmed to complement
the learning materials received pesert students in the
classroom. Here means that Mobile Learning material
is programmed to become reinforcement material
(reinforcement) or remedial for learners in following the
conventional learning activity.

Substitution (substitute)

Some universities in developed countries provide some alternative models of learning activities to the learners / students. The goal is that learners can flexibly manage lecture activities in accordance with the time and activities of everyday learners. There are three alternative models of learning activities that can be selected learners,

namely:

1) fully face-to-face (conventional)

2) partly face-to-face and partly via the internet

3) completely through the internet.

Mobile Learning also facilitate the interaction between learners with subject matter. Likewise, the interaction between learners with educators / instructors and among fellow learners can share information or opinions about the sharing of things that concern the lesson or the needs of self-development learners. Educators / instructors can place the learning materials and tasks that the learners have to do in a particular place in the websites for the learners to access. In accordance with the needs, educators / instructors can also provide opportunities for learners to access certain study materials and exam questions that can only be accessed by learners only once and within a certain timeframe as well.

 Information System Development By SDLC System Development Life Cycle (SDLC) is a framework normally used to manage the System development process. There are two kinds of SDLC approaches, namely: (1). Predictive that is by mengamsusikan project can be done according to plan; (2). Adaptive - more flexible, adjusting the needs of the project can be changing so it can not be predicted.

The characteristics of the SDLC approach with Predictive are: System requirements can be clearly defined, Cacupan work is very clear and can be planned; The technological risks can be said to be low. While Adaptive: The system requirement is not clear or potentially changeable, the scope of work is very wide, risks in technology can be said very high.

The SDLC approach is traditionally predictive / traditional, as follows:

- 1). Planning
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- 3).Design
- 4). Implementation

Predictive SDLC (waterfall), described as follows: Predictive SDLC (waterfall), described as follows:Predictive SDLC (waterfall), described as follows:

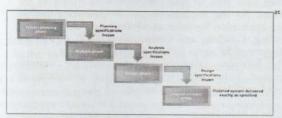


Figure 2: SDLC Model Waterfall

Stages of System Development Life Cycle (SDLC), namely: (1). Planning Gather information and study problems; Determining system requirements; Determining needs priorities; Build prototype; (2). Analysis: Some critical questions (Who uses the system), (What can the system do?), (When will the system be used?), Investigation of existing systems (if any); Identify potential changes (if applicable); Determining new system concepts; (3). Design: This stage determines how to operate the system; Architectural Design; (specifying hardware description); (Specifies the software description); (Define network infrastructure); Database Design: (Specifies the database structure), (Specifies the format of data to be stored), (Specifies how the user interacts with the system), (Designing interface views), (Design Program), (Designing the programming language to be used), (Designing the class diagram (if OOP)).

The results of the design stage in the form of System Specification which consists of - Architectural Design - Interface Display Design - Database and file specification - Software Design (Code Design). System specifications will be used by the programmer as a reference for system development. (4) . Implementation: System development stage, This stage usually takes the longest time. Construction (System development and testing stage), Installation: (The new system replaces the previous system), Training: (Training how to operate the new system), Managing (switching from old system to new system), Warranty (Support Plan).

## METHODOLOGY

The method used in this research is the method of research development (research and development), where the selected development design is using Dick and Carey Model (quoted from Santyasa, 2009). Because the main output to be generated in the research is a software, then in the process of

developing the media will be equipped with special method of software development using Software Development LECCycle (SDLC) method with Waterfall-based Model.

## DISCUSSION

- Information technology system of innovation specific of pre-marital mobile learning application
- a. The role of the Counseling, Counseling and Preservation Board of Maros Ministry of Religious Affairs

Government efforts in realizing the formation of the purpose of marriage is the issuance of Decree of the Minister of Religious Affairs (KMA) no. 477 Year 2005 about providing insight into marriage in the household to the bride and groom. The regulation is confirmed by the issuance of Regulation of Director General of Islamic Guidance No DJ.II / 542 year 2013, about Guidance of Implementation of Primary Course for married age society which will hold marriage. The Pranikah Course is the provision of knowledge understanding, skills and awareness raising to the married age teenagers about household and family life. According to the law, married age is a Muslim man aged at least 19 years and a female Muslim 16 years old.

The BP4 BP4 Counseling and Conservation Advisory Body is a socio-religious association organization as a partner of the Ministry of Religious Affairs and other related institutions in an effort to improve the marriage quality of Muslims in Indonesia. To guide, foster and nurture the family of Muslims throughout Indonesia. BP4 then experienced dynamics in line with the times. Since its inception, BP4 has always been consistent in maintaining the integrity of the family and participating in religious organizations in encouraging the birth of Law No.1 of 1974 on Marriage which is expected to improve the marriage quality of the Indonesian population, especially the Muslims who become the majority in the country.

Advisory, Counseling and Conservation Agency of marriage, hereinafter referred to as BP4, is a professional socially religious organization as a partner of the Ministry of Religious Affairs in realizing the family of sakinahmawaddahwarahmah. The Ministry of Religious Affairs conducts pre-marriage courses that work in collaboration with the BP4, or other Islamic religious organizations, which have been accredited by the government. The Bp4 board at the district level is headed by the head of the district religious ministry.

The Implementation Process of Preparation Course on

The Implementation Process of Preparation Course on Bender Ministry of Religious Affairs Maros Regency, tend to be the same as the implementation of panikah courses in other regions. In general, the prenup was executed by the BP4 administrators at the sub-district level at the Office of Religious Affairs (KUA), since pre-marriage courses conducted after the marriage age has registered marriage. Implementation The prenuptial course is given at least 24 hours of lesson, conducted by lecture method, dialogue, simulation and case study. After the process is implemented, the pre-marital course participants will get the syllabus, module and certificate. Pass mark certificate is a requirement of marriage registration.

However, with the increasing volume of pre-marriage program participants from year to year, due to the proliferation of population distribution in maros district in general, it will affect the performance of BP4 ministry of Religious Affairs of Maros Regency, especially Bp4 in religious affairs office, during the implementation of prenuptial activities. Therefore, BP4 Ministry of Religious Affairs maros regency clean up and make new breakthroughs in developing premarital course learning model, in the form of premarital course learning innovation by combining conventional traditional model

with the concept of learning mobile learning that is attractive effectively and efficiently.

The pre-marriage preference sessions in BP4 religious affairs offices are heads of religious affairs offices and functionanes of penghulu, as well as other human resources who have competence in accordance with prenuptial matter. In addition to the resource development of the pre-marriage course sources, it should also focus on developing the resources of the general public, especially the married age community who have registered the marriage will at the religious affairs offices who will then become participants of the prenuptial course. One alternative solution offered for the development of adolescent marital power resources is to utilize telecommunications technology in the form of mobile phone devices it has. It is generally known that almost all layers of society already have the technology of electronics. Utilization of mobile phone technology is not only used as a means of communication and entertainment only, but more than that, mobile phones can be maximized as a medium of learning, including delivery of pre-marital multimedia courses

b. Role of Information Technology System strategy on Implementation of premarital mobile learning

Here is the role of information technology strategy system with the application of premarital mobile learning

1). Efficiency

Under the law, pre-marital course activities are provided for at least 24 hours of lesson, which is done by lecture, dialogue, simulation and case studies. After the process is implemented, the pre-marital course participants will get the syllabus, module and certificate, as the requirements for marriage registration. With the utilization of mobile learning applications, then the process of implementation of prenuptial course activities can be assisted by integrating premarital m-learning applications. The timing of the implementation of premarital curve can also be diefesiensikan by maximizing premarital learning applications on pre-marital course participants.

## 2). Effectiveness

The role of information technology systems strategy at the level of effectiveness is not focused on the data processing performed system information / application but more on the output generated by an application. Effectiveness of premarital mobile learning applications, information generated in outline there are 3 namely: (a). Preparatory course material is conceptually in an e-book; (2). Movie in the form of a video about the marriage flow; (3). Assessment. Third information on the result of pre-marriage mobile learning application will assist prenuptial resource persons (head of KUA / Penghulu) in making decision about giving assessment result in certificate form, as requirement to get marriage recommendation.

## 3). Communication

In the stages of communication, the role of information technology systems strategy is more on the application of the concept of automation. By using both electronic devices computer and hanphone, then the process of digital communication can be easily done. Between pre-marital sources and pre-marital course participants can communicate digitally through digital communication, electronic mail and other forms of communication in social media that are developing now.

## 4). Collaboration

The role of Collaboration in strategic information technology systems is the development of the communication process. Virtual communication in the process of communication is more on conventional processes, while the emphasis on the process of collaboration is more on virtual communication in the form of face to face in virtual, eg video call or teleconfrence. But this process will require a better communication networkinfrastructure.

5). Strategic role

The main focus of the role of information technology systems strategy on premarital mobile learning application development is the strategic role. The strategic role of Maros Ministry of Religious Affairs' Advisory, Coaching and Conservation Agency (BP4) organization is the only BP4 within the ministry of religion that implements premarital mobile learning applications at the Office of Religious Affairs (KUA) as the premieres of Mini Age. The use of premarital mobile learning applications is not to replace the role of prenuptial speakers in prenuptial courses, but the use of these applications into supplements (supplements), complement (supplement) and substitution (substitute). Substitutions become the last alternative for pre-married course participants who do not have a lot of time or do not even have time to take courses conventionally in the classroom. So the implementation of premarital mobile learning application becomes an advantage owned by Maros Counseling, Coaching and Conservation (BP4) Agency of the Ministry of Religious Affairs of Maros Regency.

The following tabulation of the role of strategic information technology system with the utilization of

premarital mobile learning applications.

Table 1: PeranSistemteknologiinformasistrategis

No	Information Technology Strategy System	Implementation of Premarital Mobile Learning Applications
1	Efficiency	Efficiency of Cost Efficiency, time of course execution
2	Effectiveness	Effectiveness of Premarital course information
3	Communication	Electronic communication between penghulu and course participants
4	Collaboration	Virtual communication in learning
5	Strategic role	Innovation of m-learning applications on BP4 that other organizations do not have.

Source: data processed

#### 2. Pre-marital mobile application learning development with SDLC method

Modeling Design Functional with Development Life Cycle (SDLC) is an information system development methodology or application that performed functionally to develop or change the process and stages of software, resulting in a quality information system. The cycle of system development design with SDLC (Rosa, U.S. 2015) unum consists of: 1). Initialization, 2). Development of system concept, 3). Planning, 4). Needs analysis, 5). Design, 6). Software development, 5). Integration, 6). Implementation, Operation and execution, 8). Deposition. In connection with the development of premarital mobile learning applications with functional modeling design of SDLC, it is focused on four (4) stages as follows:

## Planning (planning)

The planning activities begin with some information related to pre-marriage course activities, including: the procedures for course execution, course requirements and prenuptial course materials. Then proceed with the identification of the main problem, namely the implementation of prenuptial coursework according to the law, that is done

during 24 hours of lessons face to face. The next planning activity is to identify the needs of both the content needs of the application, the needs of the features, the interface requirements and the resource requirements to be used, with target specification needs on a periority basis. The end result of this planning method will be generated a prototype in the visualization of the application design. The full planning activities are shown as follows:

Table 2: application planning

Planning	Action Planning
Information Collection	premarital materials, course implementation procedures,
Syllabus	requirements of course participants
Problem Identification	24-hour course activities, lecture methods
Identify the Needs of	Hadware, software
Periority Requirements	programming, modeling with UML
Prototype	Video marriage flow, features, interface

Source: data processed

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In the analytical stage, a process of activity takes place in a manner related to the depiction of the running system, in the process of implementing conventional prenuptial courses conventionally, by proposing a new system design by integrating premarital m-learning applications as supplements, complement and substitution of pre-marriage course activities. In the analysis section will be done several stages, as follows:

Table 3: development analysis

Analysis Section	Analysis Scetion
Question analysis	Target audience of mobile applications leraningpranikah is a premature skinny participant community
	The m-learning application is used by the user anytime and anywhere
The identification of the system running	the pre-marriage course runs in a conventionally traditional way, is done by lecture, discussion and questioning methods
Identification of development	Include material content Pre-wedding courses on m-learning applications
	New system concepts Produce
New system concepts	Produce pre-marital mobile learning development version of development

Source: data processed

## 3. Proses Desain

The design process undertaken in the SDLC methodology step by transforming the detailed needs into a complete system requirement, the system design document focused on meeting the needs of the function. The design process is shown in the following formulation: Table 4: Design process

Design Process	Action Design
ArchitecturDesain	Description Hardware
	Descriptionsofware
Database Design	The format of data to be stored is pre- marital course material conceptually
	Location of data storage
Design Display	the way of interactivity between users with premarital mobile learning application
	Interface design
Program Design	Using the Java Eclipe programming language
System specifications	Reference system development

Implementation

This stage is the stage of socialization of premarital mobile learning development application in the user environment. This stage is the longest stage performed in the construction of an information system. This implementation process is done by giving pre-marital mobile learning application to course participants who have enrolled in Office of Religious Affairs.

## CONCLUSION

Based on the results of research that has been done, the conclusion points are:

- Improving the Performance of BP4 Ministry of Religious Affairs Maros Regency by making a new breakthrough in developing premarital course learning model, in the form of innovative learning pre-marital course by combining traditional conventional models with the concept of learning mobile learning pranikah interesting effectively and efficiently.
- 2. The role of strategic information technology system in the effectiveness, effectiveness, communication, collaboration and strategic role with the implementation of premarital mobile learning application into BP4 organizational superiority in the use of premarital mobile learning application as supplement (supplement), complement (supplement) and substitute (substitute).
- To get pre-marital mobile learning applications of quality, then used the design methodology with develomnet life cycle software adapted to waterfall based model.

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