

**INTERNATIONAL JOURNAL OF ENGINEERING SCIENCES & RESEARCH  
TECHNOLOGY****MANAGEMENT OF FAMILY PLANNING ACCEPTOR WITH INTERACTIVE  
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**ABSTRACT**

Family planning is an attempt to measure the number and distance of the desired child. To be able to achieve this then made several ways or alternatives to prevent or delay pregnancy. In the implementation of family planning programs so far obtained encouraging data that is the increase in the number of participants. With current technological developments, it is possible to develop application software that can provide accurate, current and detailed acceptor data information. With good data like this will facilitate the preparation or refinement of existing programs so that programs can run executed effectively and efficiently. The objective is to conduct software engineering application to manage data of Family Planning acceptors acceptance. Research design is Engineering application software. Most of the Family Planning officers (85%) expressed their comfort using the software. It can be concluded that the software were proven to be helpful to manage Family Planning data management.

**KEYWORDS:** Family, Planning, software, data.**I. INTRODUCTION**

The existence of the Women and Family Empowerment Agency is very important in support of all government programs especially in addressing the population and protection of children and women. We can see that in recent years population growth has always increased. To overcome this, BPPKB tries to re-implement the program of two children better and to realize a happy small family prosperous

The high rate of population growth is due to the high rate of birth. High population growth causes development results to be less biased by the community and a heavy burden for subsequent development. Therefore direct efforts to decrease the absolute birth rate need to be improved. The mortality rate, especially infant and child mortality is closely related to quality issues of human life and society. Thus efforts that can raise the level of health, knowledge and attitudes and behavior of people for healthy living continues to be improved.

Family planning (KB) is an attempt to measure the number and distance of the desired child. To be able to achieve this then made several ways or alternatives to prevent or delay pregnancy. These include contraception or prevention of pregnancy and family planning. Based on the study, there are 3.6 million unplanned pregnancies annually in the United States, half of these unplanned pregnancies occur because the couple does not use a birth control device, and the other half use contraceptives but incorrectly how they are used.

Programs family planning provides impact , the decrease in the number of maternal deaths and child ; Overcoming the problem of reproductive health ; Increased welfare families ; Increasing the degree of health ; Improved quality and service planning ; Improved human resource management and capacity; Implementation of leadership duties and management functions in the administration of state and government run smoothly.

In the implementation of family planning programs so far obtained encouraging data that is the increase in the number of participants. However, the data management of family planning is not quite encouraging because for example in the city of Surabaya the data shows that the number of family planning acceptors exceeds 100% of the total potential population. This of course makes it difficult to evaluate the success of this program.

Therefore it is necessary an effort to manage family planning information, among others, recording the status of acceptor whether the new participant or the participant who has stopped but then become the acceptor again. Given the current information technology has grown rapidly, then the data management KB membership by using information technology into the needs that can not be negotiable. This study aims to perform software engineering applications for the management of family planning data which is expected to provide accurate, current and detailed data about FP participants.

Currently the delivery of masi data using a traditional system. Where delivery of data masi using postal services or with e-mail. In addition, data storage in the client, especially data in the area. Files or best data stored on computer with doc dan excel format. Such deliveries will certainly slow down because the data delivery is slow. In addition, the center will have difficulty in inputting data because they have to enter data manually, while incoming data includes data from all regions. It will also slow down performance and of course data errors will most likely occur. Although the bodies or government agencies already exist uses *on-line* facilities, it is less and limited.

Management of Family Planning Acceptor in Batu City East Java is motivated by the fact that the management of information about acceptors is still far from accurate resulting in duplication of the number of new acceptors. With current technological developments, it is possible to develop application software that can provide accurate, current and detailed acceptor data information. With good data like this will facilitate the preparation or refinement of existing programs so that programs can run executed effectively and efficiently.

The General objective of the research is to develop software application to manage data of Family Planning acceptors. This software will be very useful for Family Planning Agency office at city / county level because it can provide information about KB membership which is up to date so that it can be used to make accurate planning.

### **Aim**

The specific objectives are:

- 1 Identify the information needs of the FP Officer
- 2 Application software design
- 3 Trial of application software
- 4 Stability test

## **II. METHODS**

### **Research design**

Engineering application software

By identifying data items about the acceptors needed to create a family membership database. This will provide information about what fields are required in the preparation of the data base. After obtaining the required number of fields then it is estimated how many records that already exist in the data section of Office of Community Empowerment, Women & Family.

After the identification of the required filed type is completed the design is the most appropriate data infrastructure to meet the information needs. Then compiled menu will be displayed in the program that will be displayed in the software. Data about KB acceptor used for entry as data base which will be updated continuously in accordance with the existing development.

### **Software design**

The design of the software is done by using the docking program on Google Drive

### **Procedure**

This designed software is internet based by using email. The form for new acceptor data is sent to every village midwife in the district / municipality every month periodically. Village midwife fills out the submitted form and then sends the form back via email. Accepted form will be converted into excel form with data formatted list. Data that has been collected will be processed with the excel menu online so that it can be presented graphically or statistically

### III. RESULTS

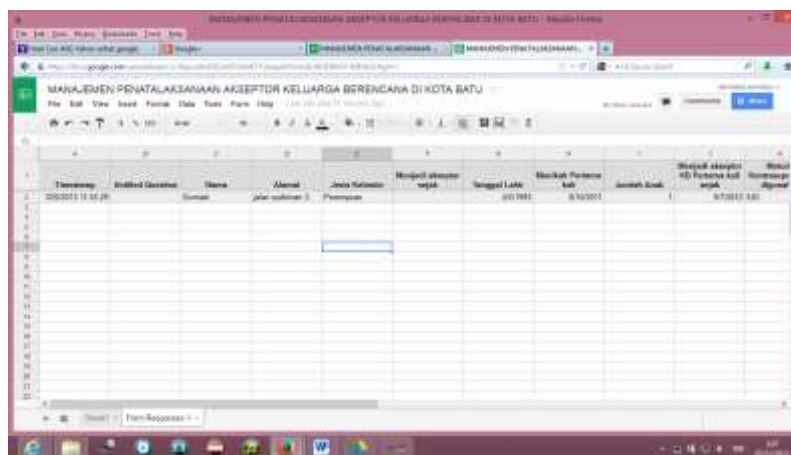
#### A Display Software

This software has the following view

Once accepted by the midwife then the display on the village midwife email is as follows



Once filled by the village midwife and sent back then the data in the form form will be converted in excel format with lay out list as follows



#### B Step Operation

- 1 Each village midwife creates an email account
- 2 The administrator sends the acceptor form to be filled by the village midwives
- 3 The village midwife opens each email and then fills out the form he has received
- 4 After the form is filled all the village midwife pressing the submit button to send back the acceptor form
- 5 Administrator get a notification that there is a response from the submitted form
- 6 The administrator opens the recapitulation of the acceptor form in the form of excell to verify and validate
- 7 Administration can present data collected either graphically or statistically
- 8 This software is interactive so that users can add new data items to be recapitulated.

#### C Discussion

This software has advantages in terms of data transmission speed as well as direct conversion of the form format into excel so it does not need to make data entry. It is error-proof as well. Another advantage is that midwives can not send data if they have not been sent form by the administrator so that email traffic happens only for the data desired by the administrator. The third advantage is that village midwives can fill out the acceptor form

whenever and wherever as long as the internet is available and can be done using a mobile phone.

The software requirement is that midwives must be internet literate and have an email account in order to perform data transactions with administrators.

#### IV. CONCLUSIONS

1. The FP Officer needs data about the new acceptors that can be done by filling out the form
2. Software that is designed has been able to carry out data management functions acceptor
3. A software trial has been successfully performed
4. From the results of software testing has been known that this software has a high stability this is because the software is designed docking on google drive

#### V. SUGGESTION

Future research needs to explore the possibilities of software that can be docked on social networking applications like facebook or whatsapp.

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