SYSTEM DATABASE BANSOS INTEGRITY

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***Abstract* - This year is a year where we are facing a lot of problems. Starting with the spread of the covid-19 virus, natural disasters, and many problems that still cannot be solved. Moreover, the number of government decisions that prohibit people to move in crowd areas, for fear of the spread of the virus is increasingly widespread. As a result of the government's decision, there are finally many people whose economic life is getting worse, so many expect social assistance from the central government so that people's lives are guaranteed in the future. We as computer science students want to create a system that can help the government in distributing social assistance using our system. In order to be expected in the future social assistance can be directly received by the community without any irresponsible individuals.**

***Keyword – many people, economic***

1. **INTRODUCTION**

This year is a time when we have to be faced with a fact that we are experiencing a disaster that is not easy to deal with. We know that this year we experience a lot of problems such as the spread of Covid-19, the number of parties who experience job cuts, can not move with things that we like, even many people whose economic class is classified as below must stop working because of the government's decision to impose restrictions on working activities in certain hours to reduce crowds. Of course, with many things happening this year, it does not rule out the possibility that people whose economic class is classified as the bottom must depend on the help of the government.

The assistance expected by the community is in the form of bansos or ordinary what we call social assistance. Social assistance is generally provided to especially communities whose economies are affected due to a disaster such as the spread of the Covid-19 virus. Then social assistance that is often provided by the government is usually in the form of cash, forms of goods that can be consumed, or ready-made goods. This way, it is expected to help people who are in need of help.

**II. LITERATURE REVIEW**

*A. Database*

At this stage of designing the bansos system we use SQL databases (structured query language) which is commonly used in data processing on relational database systems in accessing, deleting, changing, and updating the data with complex queries in a relatively short time and supporting consistency in addition, sql can be designed to run on one server until if the data requires a large data storage place it is also needed. Servers with large memory size but sql has a deficiency in distributing data evenly against the possibility of many servers.

*B. SQL*

SQL (Structure Query Language) is a table with one or more of the columns where each column has a specific data type and also has a table represented in the column, SQL is also classified as a Database Management system implemented from a relational database management system (RDBMS) that is distributed open source with gPL license.

*C. SSMS*

SQL Server Management Studio (SSMS) is a software with a GUI interface that can be used to make it easier for users to develop an Azure SQL Server database and Azure Synapse Analytics, this software combines with Enterprise Manager which was previously available on SQL Server in 2000.

**III. SYSTEM PLANNING / DATABASE**

We created a database system design to create a bansos integrity project with 3 developers for 3 days. In developing a system with a short period of time, the system must be immediately felt and repaired as soon as possible during the implementation period. This agile approach is expected to prevent fraud in taking away social assistance fund rights. Security systems are based on repetitive work processes where solutions have been agreed upon and collaboration between each team is structured, the system is done in the short term and requires rapid adaptation to cope with any changes. The structural details of this system are as follows.

Agile method is a method where it takes a mindset or mindset in building interaction relationships between individuals and groups. Agile method is also a method that involves user or use during the development process, which provides information related to changes that occur during the development process even though it is not in accordance with the original plan, and focuses on every system function created for the system to be used.

*1. Needs Analysis*

Needs analysis begins by conducting a survey to people with lower middle-income economies. The survey is expected to provide results to find out how much people do not receive social assistance from the government so that we can find out the percentage of how many people are using their fraud to take away social assistance rights.

*2. Implementation*

Implementation phase is carried out on a system with a relational database management system or (RDBMS) from logical and physical modeling results. This system is run using an SSMS (SQL Server Management System) database program which is a software that is able to transmit data quickly using SQL (Structure Query Language) commands so that the system created can help reduce falsification or manipulation of data related to social assistance.

*3. Review*

After creating a system, we immediately approached the people who they will use as a trial user experiment to see if the system we create is in accordance with their needs and expectations.

*4. Release*

In this last stage the system will be ready to be given to the client and can review what has been done in the development process. So that the system can be given to the wider community so that it can be used as well as possible.

**IV. RESULT AND DISCUSSION**

*TABLE I. PROBLEM IDENTIFICATION*

|  |  |
| --- | --- |
| Case | Problem |
| Problem | Main Problem :  Bagaimana cara untuk mengatasi permasalahan bagi masyarakat membutuhkan bantuan di tengah musibah yang ada?  Korupsi pengambilan Bansos |
| Solution | Solution : Dengan menyediakan sistem yang sudah dipercaya oleh masyarakat monitoring Bantuan sosial hingga sampai ke tangan orang yang di tuju |
|
|
|
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Diagram

Description automatically generated

*Building Conceptual Model*

*Class Diagram*

Chart, diagram, box and whisker chart

Description automatically generated

*Relationship Types*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Nama Entitas | Kardinalitas | Relasi | Kardinalitas | Nama Entitas |
| Pemerintah | 1 | Memiliki | \* | Bansos |
| Penerima | 1 | Memiliki | \* | Kecamatan |
| Kecamatan | 1 | Memiliki | \* | Bansos |
| Kurir | 1 | Memiliki | \* | Pengiriman |
| Bansos | \* | Memiliki | 1 | Pemerintah |
| Bansos | \* | Memiliki | 1 | Kecamatan |
| Bansos | 1 | Memiliki | 1 | Bank |
| Bansos | 1 | Memiliki | 1 | Pengiriman |
| Bank | \* | Mengambil | 1 | Bansos |
| TransacBank | 1 | Memiliki | 1 | Bank |
| Pengiriman | \* | Mengambil | 1 | Bansos |
| TransacPengirim | 1 | Memiliki | 1 | Pengiriman |

ERD Conceptual

Diagram

Description automatically generated

*Building Logical Model*

*A. ERD Logical*

Diagram

Description automatically generated

*B. ERD Physical*

Chart, diagram

Description automatically generated

**IV CONCLUSION**

The conclusion that can be drawn from our group is that through the system that our group created, it is hoped that the distribution system of social assistance can be equally felt by all people who need it, so that there are no longer problems related to social assistance that often occur due to the treatment of irresponsible persons to distribute it. social assistance from the central government to the community.

The advice that our group can give is that with the system that we have created, the community no longer needs to worry about social assistance being corrupted by irresponsible individuals, and the central government can find out whether social assistance has reached the people without lacking anything.

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