Web based Motorcycle Social Gathering Information System

Joshua Ivannathan*,
Information System Department, Faculty of Information Technology
Universitas Tarumanagara

* Joshua.825160037@stu.untar.ac.id

Abstract. Information System Arisan Motor Website base aims to facilitate people who want to do social gathering (known as arisan), especially motorcycle social gathering. Where on this social gathering website can display the winning result accurately, because randomization is done by system. Making this website method uses the SDLC (System Development Life Cycle) method which is carried out in several stages, system planning, analysis system, system design, and system implementation. In this application program also uses tools that are Flowcharts, Data Flow Diagrams, Entity Relationship Diagrams, and Relationships Between Table. The database used is MySQL, the link between the database and the display of the program using XAMPP, the language of the program and the application used to manage the display is PHP. Testing on the motorcycle social gathering website uses the Black Box Testing and User Acceptance Testing (UAT) methods. The motorcycle social gathering website can display a report for the owner in the form of the most chosen motorcycle, the number of people who have registered, the financial report, and the salary report of the member that can be seen by the owner of the motorcycle social gathering website

1. Introduction
In this modern era, everyone is in need of transportation equipment in the form of motorbikes, although there are many types of transportation. However, in everyday life almost everyone is in need of transportation in the form of motorbikes. With motorbike transportation, people are more free to do activities in business [1]. Whereas purchasing a motorcycle on credit is considered to be burdensome due to the large amount of costs that must be paid for repayment. So that following a motorcycle gathering is a solution [2]. The development of information and communication technology has an influence on various aspects of human life, including the practice of social gathering. The social gathering is no longer using conventional principles, but instead uses an interesting system through software and social media. With an online system, the practice of social gathering is easier to do with a wider range [3]. In the future, it is expected that motorcycles can be purchased at low prices. By carrying out the motorcycle social gathering concept that is managed professionally, transparently, honestly and responsibly [4].

2. Method and materials
2.1. Data Collecting Method
Data collection uses two methods, namely interviews and observations. Interview is a process of communication or interaction to collect information by question and answer between researchers and informants or research subjects. With the advancement of information technology as it is today, interviews can be done without face to face, namely through telecommunications media. In essence the interview is an activity to obtain in-depth information about an issue or theme raised in research. Or, is a process of proving the information or information that has been obtained through other techniques before [5]. Observation is also one of the most common data collection
techniques in qualitative research methods. Observation is essentially an activity using the senses, can vision, smell, hearing, to obtain information needed to answer research problems [6].

2.2. System Development Method
SDLC or software development life cycle or often called the system development life cycle is the process of developing or changing a software system using models and methodologies that people use to develop software systems before [7]. The SDLC waterfall model is often also called the linear sequential model or classic life path. The waterfall model provides a software life cycle approach sequentially or sequentially starting from the analysis, design, coding, testing and supporting stages [8].

3. Results and discussion
Each table has a name that consists of a number of attributes, where each row has a value for each attribute [9]. every table that is connected so that they become interconnected tables called relationships between tables. Relationships between tables are made to simplify the management process. Relationships Between Tables can be seen in (Figure 1)

![Figure 1. Relationship Between Tables](image-url)
3.1. Purchasing process, member selection and randomization

On this page members are shown available motors, with prices and quota amounts available. For more details can be seen in (Figure 2.)

![Motorcycle catalog](image)

**Figure 2. Motorcycle catalog**

After a member choose the motorbike, this page shows the motorbike chosen by member. For more details, see (Figure 3.)

### Data Arisan

| No | Kode Kuota | Motor               | Waktu Pengacakan | Detail | Hasil Pengacakan |
|----|------------|---------------------|------------------|--------|------------------|
| 1  | a_kt_01   | Fino 125 Sporty     | 10-July-2020     |        |                  |
| 2  | coba_01   | Freego Standard     | 10-July-2020     |        |                  |
| 3  | kd_kt_09  | Freego Standard     | 10-July-2020     |        |                  |
| 4  | Kuota_01  | Scoopy Stylish.     | 10-July-2020     |        |                  |

**Figure 3. Member Selection**

After members make a selection of motorcycles, and make payments, the admin will do randomization to determine the winner of the motorcycle social gathering at a certain quota. For more details, can be seen in (Figure 4).
After randomizing it will display the results of randomization in the form of winning data, then the results of randomization will be displayed on the member interface. For more details can be seen in \textit{(Figure 5.)}

\textbf{Figure 4.} Randomization

\begin{figure}[h]
\centering
\includegraphics[width=\textwidth]{fig4.pdf}
\caption{Data Kuota}
\end{figure}

After knowing the winner, the admin will place an order for which ordering data will be stored in the ordering database \textit{(Figure 6)}. After ordering, the goods are then sent by the supplier to the winner, then the goods that have been received will be recorded and stored in the motorcycle acceptance database \textit{(Figure 7)}. After the motorbike is accepted, BPKB will be issued by the police, which is then stored by the admin and recorded in the database as collateral. For more details, can be seen in \textit{(Figure 8)}.

\textbf{Figure 5.} Winner

\begin{figure}[h]
\centering
\includegraphics[width=\textwidth]{fig5.pdf}
\caption{Winner}
\end{figure}

\begin{figure}[h]
\centering
\includegraphics[width=\textwidth]{fig6.pdf}
\caption{Hasil Pengacakan Arisan}
\end{figure}
Figure 6. Motorcycle Order

Figure 7. Motorcycle Reception

Figure 8. BPKB
4. Conclusion
This application program can be used by the community to replace their old motorbikes with new motorbikes or buy new motorbikes with a social gathering system, especially for people whose economic resources use motorcycles. It is hoped that this application program can be further developed so that it can help people who are still having difficulty buying or replacing their motorcycles.

5. References
[1] Juwarta (2015) Bisnis Arisan Sepeda Motor Sistem Lelang Merupakan Subsidi Silang Antar Anggota.
[2] Hani Hariyanto, Noor Latifah, Syaful Muzid (2018) CMS Salmon: Digitalisasi Sistem Arisan dan Lelang Motor.
[3] Ramadhita, Irfan Roidatul Khoiriyah (2020) Akad Arisan Online: Antara Tolong Menolong dan Riba?
[4] Wardoyo, Yohana Puspitasari (2013) Analisis Yuridis Sosiologis Arisan Sepeda Motor Sistem Lelang (Studi di CV. Patria Multindo Perkasam, Kecamatan Wilingi Kabupaten Belitar)
[5] Rahadjo, Mudjia (2011) Metode Pengumpulan Data Penelitian Kualitatif.
[6] Rahadjo, Mudjia (2011) Metode Pengumpulan Data Penelitian Kualitatif.
[7] Rosa, Shalahuddin (2015) Rekaya Perangkat Lunak Terstruktur dan Berorientasi Objek. Informatika Bandung. Bandung
[8] Rosa, Shalahuddin (2015) Rekaya Perangkat Lunak Terstruktur dan Berorientasi Objek. Informatika Bandung. Bandung
[9] Connoly, Begg (2015) Database System A Pratical Approach to Design, Implementation, and Management 6th Edition-Global edition Harlow: Pearson Education Limited.