WEB BASED EVENT ORGANIZER DATA MANAGEMENT INFORMATION SYSTEM
(Case Study: PT. REPUBLIKA MEDIA MANDIRI)

Rangga Pratama Surya Wahyudi¹, Riad Sahara, S.SI., MT²
¹²Faculty of Computer Science, Mercu Buana University, Indonesia
¹ranggal345@gmail.com; ²riad.sahara@mercubuana.ac.id

Abstract— Event Organizer is an organization in which there is a group of people who have the function of organizing and carrying out an event, such as launching a new product, exhibition, performing arts, music performances, and so on. In every event that is carried out there must be a name for the data of participants who want to attend the event. Starting from an individual or it could be an association that wants to follow. During this time the data collected is still in the form of manual and manual input which in my opinion is far from the effective and optimal data that we can get. With this website, it will be easier for participants to register for the event and for the organizer, it will be easier and more effective to get data from the event.

Keywords— research, event organizer, data

I. INTRODUCTION

Event Organizer (EO) is an organization in which there is a group of people who have the function of organizing and carrying out an event, such as the launch of a new product, exhibition, performing arts, music performances, and so on. With various events or events there are companies or media that can lift a product. Along with the progress of the existing information system. Event information is very easy to get by opening the website provided. With the information system, registering through a website is also easier without the need for manual registration by coming to the site. And the participants can also see the details of the program and the event documentation that has been held. With this, the researcher conducted an interview with EO from PT. Republika Media Mandiri in managing EO. With the results of the interview there are still a number of problems. Among the problems of data management that are still manual or still use paper media that can allow data loss and can hinder the delivery of information. From a number of events, very little documentation can be published and the manual is still stored. With lots of events being held, the file storage is also quite a lot. In terms of data security and data manipulation it is also easier. If the documentation is missing, it will be dangerous for the event to be held in the future. Therefore the need for centralized incoming data will further facilitate the work of the EO and can be proof of accountability to management accurately. Because with the existence of a system, everything is more organized and there is minimal data manipulation.
A. Research Problems
Based on the background described above, then the outline of the problem is:
1) How can Event Organizer promote an existing event?
2) How can participants easily register events?
3) How can Event Organizer see data on the number of participants who participated in the event and who attended the event held?
4) How to make management and financial reports so that they can be accountable to the Finance Division?

B. Limitation of Research
In order for the research to be conducted is not too widespread, there are limits to this research:
1) This application uses a list of events at PT. Republika Media Mandiri.
2) The main focus of this application is about all the events at PT. Republika Media Mandiri.
3) This application includes an Event Participant data report and Event registration fee.
4) Every data entered can be directly checked by the admin or the Event Organizer.
5) This application also displays photo event documentation.
6) This application is only run through the browser.
7) Does not handle event planning data management.

C. Objectives and Benefits
In general the purpose of this research is to find, develop and prove knowledge [1]. The expected goal of this research are:
1) To facilitate the Event Organizer in managing data and conveying the information needed.
2) To reduce data loss.
3) To facilitate prospective participants in registering.
4) To make it easier for editors to upload news about the event running.
5) To make it easier for management to view financial statements obtained.

Theoretical benefits for development while practical benefits for solving problems [1]. And the benefits of this research are:
1) More monitoring of existing event data because it is centralized and can be seen by management.
2) Participants do not need to confirm to the organizer because all data has been prepared and complete.
3) Can display upcoming events and registered participants are clearer and more accurate.
4) Data on prospective participants is more visible and can be used as data for future evaluations such as registry fees or upcoming speakers.
5) Minimize the use of paper at the time of documentation or reports that exist because all have been computerized.

II. STUDY OF LITERATURE
A. Previous Research
According to Annisa Nur Fatimah (2018) “Application of Web-Based Information System in Supporting Public Communication”[2]. In the era of globalization there has been a millennial generation which is a generation that has active, creative and innovative characters. Therefore, at this time there are many events that are initiated by the younger generation, both social, cultural, religious, etc. But the absence of a container was an obstacle for organizers to market the event. Therefore, a container website is created to collect and information as well as a media campaign for the event by the author.

Next, according to Fernando Is Suhendra, Ike Juanita Tri Wardhani (2015) “Management Event Lintaswarna Traditional Wedding Exhibition”[3]. The need for management to coordinate the participants or parties involved in the exhibition will be held. Therefore, the authors make the Lintaswarna Traditional Wedding Event with data event management. Starting from the filler side of the exhibition booth to the details of the existing program and how to register as the filler of the booth. As well as a media campaign to promote the event and attract the power to watch the exhibition among the public.
For research conducted Intan Tri Iati Ningrum, Sengguruh Niloawardono (2016) “Effect of Event and Brand Image on the Interest in Buying Sampoerna A MILD Cigarette Products at PT HM SAMPOERNA Area Marketing SURABAYA”[4]. The main focus of this research was on strong brand image problems that would differentiate companies from competitors, because the brand image of a company cannot be equated with another company’s brand image. Therefore PT. DIJARUM is creating a special event for cigarette lovers and Super Mild lovers as event marketing for the brand image of the product. The aim is to increase the purchasing power of these products.

In the research conducted Andi Nugroho (2016) “WEB INFORMATION AND REGISTRATION APPLICATION OF SEMINAR PARTICIPANTS, WORKSHOP, TALKSHOW AT THE TELEMATICS (SINAPTIIK) NATIONAL SEMINAR EVENT IN SINAPTIIK in 2016”[5]. Besides holding a synaptic seminar also holding talk shows, workshops and seminars. The talkshow participants and workshops and seminars did not know where to register to attend workshops, training sessions and seminars. Students do not know how to register, this causes many students who do not know the amount of capacity that still exists or the amount of capacity that is full. Students also do not know where to make payments, and confirm payment in participating in the synaptic event. So from that the speaker creates a Web Application Information and Seminar Participant Registration. With this application the speaker and participants can find out when the deadline for sending papers, knowing when the payment deadline and how much to pay, know where to conduct the synaptic event and know the time of implementation.

Next is research Heru Firmansyah, Rintana Arnie (2017) “Model of Web-Based Promotion and Event Management Information Systems”[6]. This research shows that to bring in the number of visitors who reach the target, it is needed a lot of various promotional media, including brochures, pamphlets, or posters that are posted in certain places. This method is considered less efficient because it requires more time, effort, and cost in implementing it. Thus the authors make the promotion & management information system web-based event. And can help the committee to meet the number of event participants. In addition to helping the committee, it is also easier for participants to register or know the details of the event that will take place.

Based on the related research, the researcher will carry out development by providing Event Organizer Data Management Information System. This system will cover all ongoing and future event data. Start from the list of participants until the entire documentation of the event.

**B. Data Management**

According to Ricky W. Griffin management is the process of planning / planning, organizing, coordinating, and controlling every available resource in order to achieve goals or goals that have been determined effectively and efficiently. Effective means that goals can be achieved in accordance with existing plans, and efficient means implemented correctly and organized [7].

**C. Event Management**

According to Goldblatt (Goldblatt, 2013) Event Management is a professional activity of gathering and meeting a group of people for the purpose of celebration, education, marketing and reunion, and responsible for conducting research, designing activities, planning and carrying out coordination and supervision to realize the presence of an activity [8].

**D. Decision Tree**

Decision tree is a very interesting classification method that involves the construction of a decision tree consisting of decision nodes that are connected with branches from the root node to the leaf node (end). On the decision node the attribute will be tested, and each result will produce a branch. Each branch will be directed to another node or to the end node to produce a decision [9].
III. RESEARCH METHODS

A. Business Process Running

Following is the business process of running Event Organizer records.

![Business Process Diagram]

Event Organizer opens registration manually using advertisements in newspapers and social media after waiting for participants to register via email and telephone from participants. After that participants register and are recorded by the event organizer manually in Excel. After recording the participant must re-confirm via e-mail or telephone to the event organizer, he has paid and recorded via excel again by the event organizer. After that the event was organized and was manually absent by the event organizer. And event documentation data in storage on PC storage is limited so that existing data cannot be accessed by others.

B. SDLC System Design Method With Waterfall Model

SDLC (system development life cycle) Waterfall is the basis of the original structured design at present. By using the Waterfall method, analysts and users can be done from one phase to the next. This methodology is called the development of Waterfall because it moves from phase to phase in the same way as a waterfall. Although it’s possible to back out in SDLC (for example, from design back to analysis), but it’s very difficult[10].

The two main advantages of the waterfall methodology approach are identifying system requirements that must be carried out long before the programming starts and minimizing changes to the system requirements when the project takes place. The two main disadvantages are that the design must be completely determined before the programming begins. And if the project team missed important requirements, expensive post-implementation programming might be needed. A system can also require significant rework because the business environment has changed from when the analysis phase occurred.
1. **Planning**  
   At this initial stage the researcher looks for the problem by defining the problems that exist in PT. Republika Media Mandiri.

2. **Analysis**  
   At this stage, analyze data from PT. Republika Media Mandiri and collect system requirements to be built.

3. **Design**  
   This phase, designing the system to be created, database specifications and program design to be developed.

4. **Implementation**  
   This final phase of the system that is ready will be tested first.

### C. Use Case Diagram

![Use Case Diagram](image_url)

**Figure 3 Use Case Diagram**
The use case is made to define how the system must be run when the actor activates the use case[10]. So that the system that has been described using the use case diagram in the image will be explained in more detail and defined.

D. Sequence Diagram

The figure above is the result of the login process. Every user or user of this application must log in first before entering the menu in the app. Admin, event organizer and editor input username and password, then the application will validate to the database, return data in the database to the same as the input then the login is successful and goes to the main page or dashboard of the application. Whereas if the data does not match the database data, a login notification will appear.

IV. RESULT AND DISCUSSION

A. IMPLEMENTASI

In the implementation phase, what is done is the process of applying the results of the system design. The results of this stage are an event organizer management system for PT. Republika Media Mandiri which has been running well.
Figure 4 is the login page display. This login page is like a gate that every user must pass before entering system. Each user enters a username and password that is in accordance with the data provided by the admin. In this page if the user incorrectly entered meal data, this login page will display a pop-up that failed to login and can’t enter the application.

Figure 5 Display of Participant's Data Page

Figure 5 When choosing a participant's data menu, the first page that appears is information such as the event name, name, email, cellphone number, status, and check payment button, edit and delete the user.

Figure 6 Display of Event Data Pages

Figure 6 When selecting an event data menu, the first page that appears is information such as eo name, event name, event date, detail, status, and edit and delete event buttons.
B. APPLICATION TESTING

Testing this application uses the Black Box Testing method, which focuses on the functional requirements of the software. Testing is done by running the Event Organizer Management System Application PT. Republika Media Mandiri. After the application is run, then it is to test the menus and buttons contained in the application interface whether in accordance with the initial design stage. The following is a table of test scenarios:

<table>
<thead>
<tr>
<th>No</th>
<th>Tested Interface</th>
<th>Testing Scenario</th>
<th>Test Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Login Admin</td>
<td>Login by entering the correct username and password</td>
<td>System Displays the dashboard</td>
</tr>
<tr>
<td>2.</td>
<td>Login Admin</td>
<td>Login by not entering a username or password</td>
<td>The system will display &quot;Login Failed! Incorrect username or password. &quot;</td>
</tr>
<tr>
<td>3.</td>
<td>Manage users</td>
<td>Admin adds user data by completing the complete form and clicking the submit button</td>
<td>The system successfully stores user data</td>
</tr>
<tr>
<td>4.</td>
<td>Manage users</td>
<td>Admin edit user data by clicking the edit button</td>
<td>The system successfully displays the edit data for the user data</td>
</tr>
<tr>
<td>5.</td>
<td>Manage users</td>
<td>Admin delete data manage user</td>
<td>The system successfully removes user data</td>
</tr>
<tr>
<td>6.</td>
<td>Manage users</td>
<td>Admin adds or edits user data by not filling in the complete form</td>
<td>The system keeps storing incomplete user data</td>
</tr>
<tr>
<td>7.</td>
<td>Manage User</td>
<td>Admin adds user data by completing the complete form and clicking the submit button</td>
<td>The system will save</td>
</tr>
<tr>
<td>8.</td>
<td>Login Event Organizer</td>
<td>Login by entering the correct username and password</td>
<td>System Displays the dashboard</td>
</tr>
<tr>
<td>9.</td>
<td>Login Event Organizer</td>
<td>Login by not entering a username or password</td>
<td>The system will display &quot;Login Failed! Incorrect username or password. &quot;</td>
</tr>
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<td></td>
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<tr>
<td>---</td>
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<td>---</td>
</tr>
<tr>
<td>10. Manage Event</td>
<td>Organizer</td>
<td>Events add data events by filling in the complete form and clicking the submit button.</td>
<td>The system successfully stores event data</td>
</tr>
<tr>
<td>11. Manage Event</td>
<td>Organizer</td>
<td>Edit the event data by clicking the edit button.</td>
<td>The system successfully displays the edit data event form</td>
</tr>
<tr>
<td>12. Manage Participants</td>
<td>Event Organizer</td>
<td>add participant data by completing the complete form and clicking the submit button.</td>
<td>The system successfully stores participant data</td>
</tr>
<tr>
<td>13. Manage Participants</td>
<td>Event Organizer</td>
<td>edit participant data by clicking the edit button.</td>
<td>The system successfully displays the participant's edit data form</td>
</tr>
<tr>
<td>14. Login Editor</td>
<td>Login</td>
<td>by entering the correct username and password</td>
<td>System Displaying the dashboard</td>
</tr>
<tr>
<td>15. Login Editor</td>
<td>Login</td>
<td>by not entering your username or password</td>
<td>System will display &quot;Login Failed! Incorrect username or password.&quot;</td>
</tr>
<tr>
<td>16. Manage News</td>
<td>Editor</td>
<td>adds news data by completing the complete form and clicking the submit button.</td>
<td>The system successfully stores event data.</td>
</tr>
<tr>
<td>17. Manage News</td>
<td>Editors</td>
<td>edit news data by clicking the edit button.</td>
<td>The system successfully displays the news data edit form</td>
</tr>
<tr>
<td>18. View Event</td>
<td>The participant</td>
<td>clicks on the event button</td>
<td>The system will display a list of events</td>
</tr>
<tr>
<td>19. View News</td>
<td>Participants</td>
<td>click on the news button</td>
<td>The system will display news</td>
</tr>
</tbody>
</table>
V. CONCLUSIONS

With the implementation of the Overseas Organization Registering Cash Application, it can be concluded as follows:

1. This application is useful as a cash recording organization utilizing web-based technology that can facilitate each member of the PESSAS organization to see cash financial statements.
2. This application can record activities carried out by PESSAS, so members can check the details of activities directly.
3. With this application you can see active members participating in the organization.
4. This application can display financial report data according to the period that the PESSAS treasurer wants to print.
5. Applications can help members to see the status of mandatory contribution bills.

REFERENCES


