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Project Monitoring and Payment System at CV Studio Reka Teknik with a UI UX Approach

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ABSTRACT

The UI/UX (User Interface/User Experience) approach is an initial step in developing a conventional system into a computerized system or developing a computerized system to better suit user needs. In this research, the object raised is CV. Studio Reka Teknik, which is a consulting engineering and general trading service company with the process of conveying information, monitoring and paying for projects, still uses telephone media or meets in person. This causes project monitoring to be impossible in real time and the payment process becomes constrained due to the need to adjust the time to meet between the client and the developer. Therefore, in this research a web-based system was designed by adjusting the needs of the user experience on CV. Studio Reka Teknik. By utilizing the web engineering method, this built web-based system can help and facilitate users in monitoring projects and project payment processes using the system without having to meet directly between the client and the developer. This system will be used on CV. Studio Reka Teknik, which will continue to be monitored for the maintenance and development of this system. After that, if the system is optimal, it can also be applied to other contractor companies

Keywords: UI/UX Approach; Web; Project Monitoring; Payment System; Contractor Companies

1. INTRODUCTION

In this research, one sample of the research object was taken, namely CV. Studio Reka Teknik, which is one of the companies in the consulting engineering and general trading services sector. The activities at this company focus on management and engineering which begins with pre-feasibility studies, investigative surveys, planning, design to engineering supervision and project management. However, all activities at this company are carried out without using a computerized system, so that project monitoring or payment is carried out by meeting directly between the client and the developer. CV. Studio Reka Teknik is trusted to manage medium-scale projects and several projects have collaborated with large companies with national-level reputations in the field of engineering and non-engineering. Therefore, a computerized system is needed to facilitate the process of monitoring and paying for projects without having to meet face-to-face. Utilization of the UI/UX (User Interface/User Experience) approach in designing and building a system for project monitoring and payment is intended so that the system built can meet user needs in accordance with the experience that has been experienced by employees and clients of CV. Studio Reka Teknik. The UI/UX is a display in visual form on applications and digital marketing tools in the form of websites that aim to enhance the brand of a company or business (Muhyidin et al., 2020). This is the application of information technology, which is an effort to achieve goals in a company (Fattah & Setyadi, 2019). Information technology is also any type of technology that can assist humans in the process of creating, storing and disseminating information (Permana et al., 2022). The information itself is data that is processed into a form that has more meaning and benefits (Islamy et al., 2018).

Therefore, the application of this system will make project monitoring and payment at CV. Studio Reka Teknik will be more effective, because clients can monitor project progress through the system and don't need to come directly to the project site. Effective itself is a change that can provide certain benefits and influences (Fakhrurrazi, 2018), as well as the developed system which provides easy access to project monitoring. In addition, the project payment process can be done remotely through this system by utilizing internet services. It can also improve the performance of the CV. Studio Reka Teknik, due to the implementation of a web-based project monitoring and payment system,

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there will be more projects that can be worked on than before the system existed.

2. LITERATURE REVIEW

There are several studies into previous research in this study. For the first research is research conducted by Yuga Hadfridar Putra et al, where researchers designed a website for monitoring nutrition, temperature and water level in hydroponic farming. In this study, researchers used the literature study method to collect information and continued with data collection, system requirements analysis, design and testing process. The results of this research itself are in the form of a website that is used to control nutrients, water temperature, nutrient water volume, ambient temperature, pH and humidity which aims to replace hydroponic systems which are still done manually or conventionally. For the control itself using the NodeMCU esp8266 v3 microcontroller (Y. H. Putra & Triyanto, 2018). Next is research from Budi Utomo regarding the monitoring system for school students using the website (Utomo, 2017). And the research by Husneni Mukhtar et al which discusses the prevention of flood disasters by utilizing a waste capacity monitoring system (Mukhtar et al., 2020).

An addition, some of the previous studies that became the reference for conducting this research came from Jefry Tarantang who examined the development of payment systems during the industrial revolution 4.0. This research itself aims to develop a digital manual payment system while still prioritizing sharia elements or not containing elements of maisir, ghoror, and usury. The existence of this digital payment system does not mean eliminating the existence of cash but is expected to minimize inflation due to the large amount of money circulating in the community. For the continuity of this research, researchers used qualitative research methods which were then analyzed using a phenomenological approach (Tarantang, Awwaliyah, Astuti, & Munawaroh, 2019). his research is also based on one of the studies that discusses the influence of digital payment systems on Indonesia's economic growth which is the result of Hastina Febriaty's research and Siti Fatimah's research on the transition of payment systems to using e-money (Fatimah & Suib, 2019).

Based on some of these studies, through this research the researchers plan to monitor the project and payment system at CV. Studio Reka Teknik with UI/UX Approach. Where it is clear that the researcher will monitor and pay for the project at CV. Studio Reka Teknik will be more effective, because clients can monitor project progress through the system and don't need to come directly to the project location. In addition, the system that will be developed by researchers in this study will also provide easy access to projects and can also be carried out remotely by utilizing internet services. Thus of course this will improve the performance of CV. Studio Reka Teknik, due to the implementation of a web-based project monitoring and payment system and will certainly increase the projects being worked on compared to before this system existed.

3. METHOD

The method used in research to solve problems in the research object CV. Studio Reka Teknik is a web engineering method (Mulyanto & Setiawan, 2020; Rahmanto, 2021). This method is a form of design steps in developing web-based software (Qomariah & Sucipto, 2021). The following are the stages of the web engineering method which has 5 stages (Budiman et al., 2021), namely:

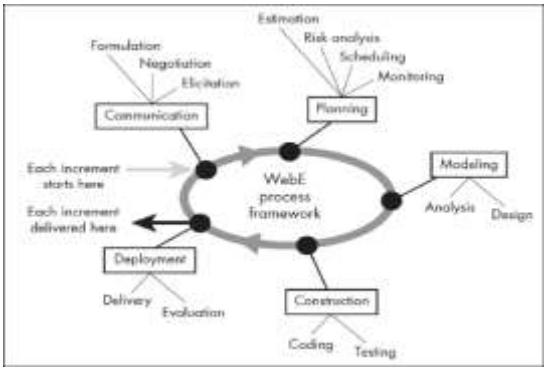


Fig. 1 Web Engineering Method

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1) Customer Communication
   Communication in this case is mainly concentrated on two things, business analysis and formulation. Business analysis is related to the User Interface which will define what things will be contained in the web application, for example web users to be built, potential changes in the business environment, integration between the web to be built and the company's business situation, as well as company databases. The formulation is related to User Experience which will collect information about things that will be published on the web which involve all potential users as well as information about previous research.

2) Planning
   Web application development planning for a project monitoring and payment system, which will consist of defining work and time targets for the specified work and sub-work.

3) Modelling
   The purpose of this activity is to explain what things are really needed / needed in the application to be built and the solutions offered which are expected to answer what is implied from the results of analysis and data collection.

4) Construction
   Web application development combines technological developments with existing web development tools, meaning choosing tools that are effective but can still adapt to currently developing technologies.

5) Deployment
   The web application was created to be useful for work needs, can be operated by end-users and then evaluated periodically and provides input to the development team and if necessary modifications will be made to the web application. In this case, a project monitoring and payment system has been implemented in CV. Engineering Design Studio to evaluate the feasibility of this system in improving the quality of CV reports. Engineering Design Studio.

4. RESULT & DISCUSSION

3.1. Customer Communications

At this stage, there is a formulation and business analysis to describe the problems experienced by most consulting firms, one of which is CV. Studio Reka Teknik. The analysis was obtained from the results of interviews with leaders, employees and clients from CV. Studio Reka Teknik. The formulation analysis produces a summary related to the background of web-based system design, as well as the needs and who will use this system. In addition, the business analysis results obtained show that the current system used for project monitoring and payment is still not effective and efficient because it requires all parties to meet in person.

3.2. Planning

At this planning stage, the researchers concluded the results of the analysis that had been obtained from surveys and interviews at CV. Studio Reka Teknik uses a user experience approach. The right solution plan is the design of a web-based system with the PHP programming language utilizing the Unified Modeling Language (UML), which is a tool to assist modeling in the development of object-oriented systems (Voutama, 2022). The advantage of using UML is that it can visualize system models with object-oriented concepts (PBO) for users of various programming languages so as to produce systems that are used by machines or humans (Pakaya et al., 2020). The form of the system to be designed will suit the needs of CV. Studio Reka Teknik, which can monitor and make payments for projects as a whole using the website.

3.3. Modeling

Based on what is needed in the previous stage, the CV. Studio Reka Teknik formed a project monitoring and payment system design using UML (Syarif & Nugraha, 2020). The UML can at least consist of use case diagrams and

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activity diagrams (Primadasa & Juliansa, 2020). The following is a use case diagram in this research modeling, in which the use case diagram is a description of the interaction of several actors on the system that will be designed (Affandi & Syahputra, 2018).

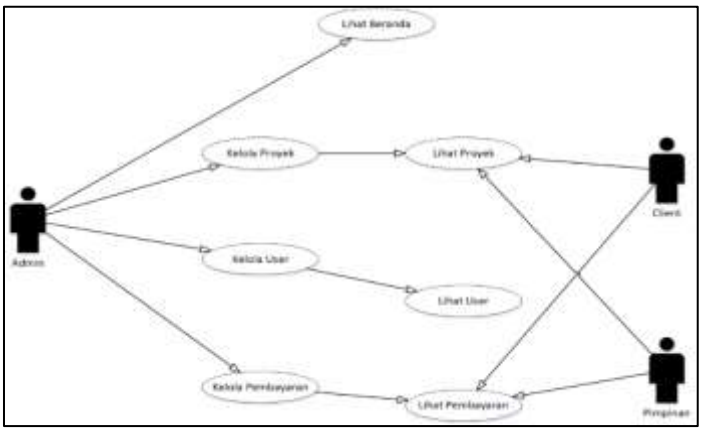


Fig.2 Use Case Diagram

In the use case diagram in Figure 2 there are 3 actors, namely Admin who has the highest access rights and can access all features, Leaders who can only carry out activities to view pages, starting from the homepage, projects, and payments, and Clients are also actors who can only see the projects and the payments they have. In addition, this model also displays activity diagrams which are techniques for describing the activities of each user involved in the development of an information system (Sari et al., 2021) and activity diagrams can also describe several processes in an action simultaneously (P. B. A. A. Putra et al., 2022). The activity diagrams in this design are activity diagrams for managing admin projects, managing admin users, managing admin payments, clients and leaders, like Figure 3 to 7 below:

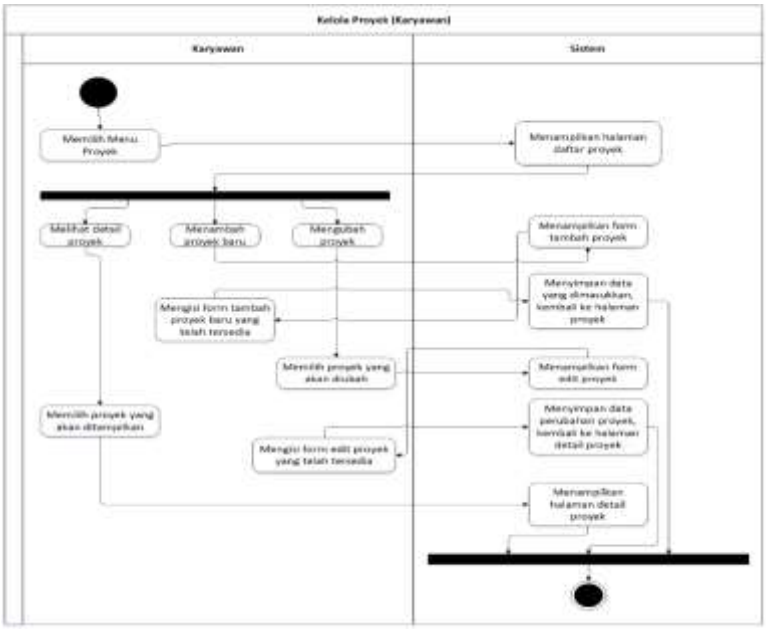


Fig.3 Activity Diagram Manage Admin Projects

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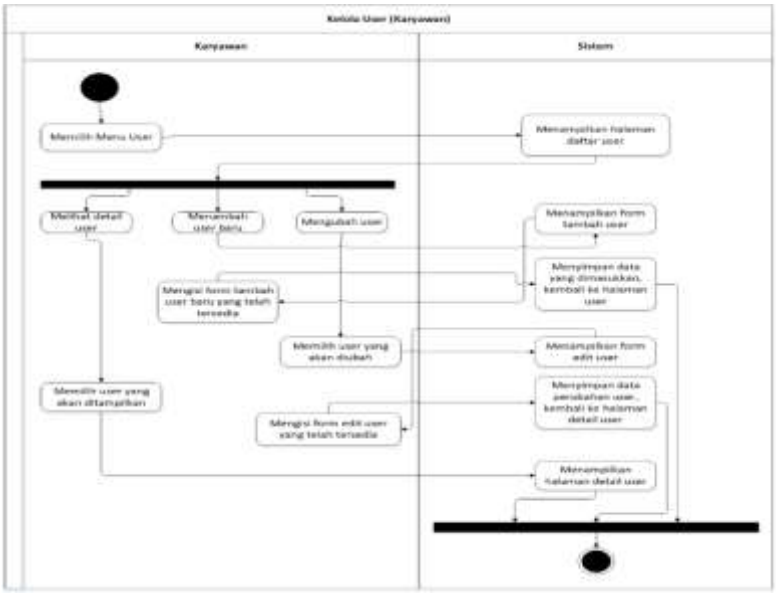


Fig.4 Activity Diagram Manage User Admin

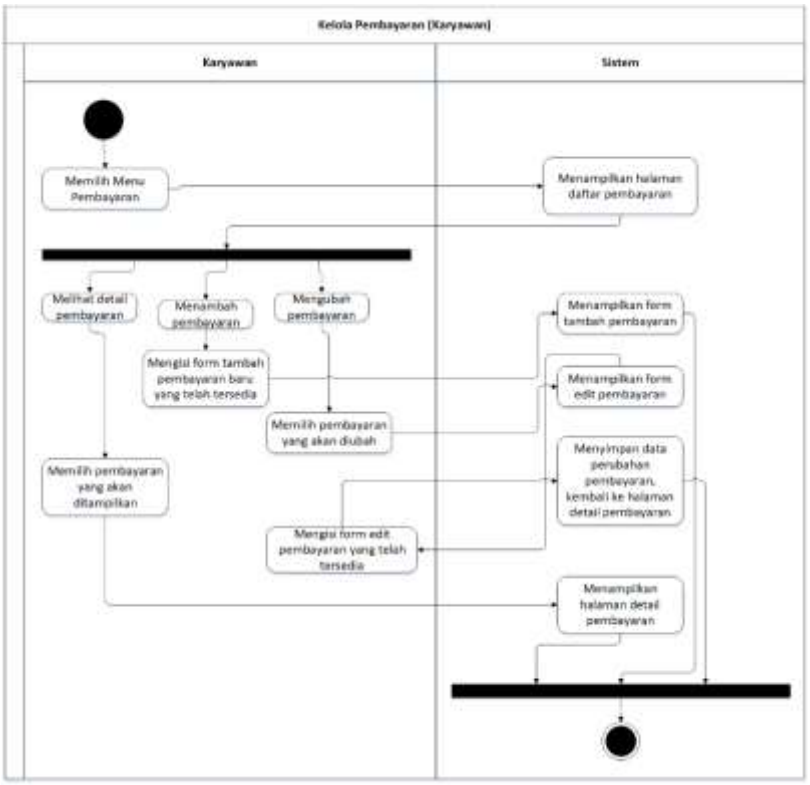


Fig. 5 Activity Diagram Manage Admin Payments

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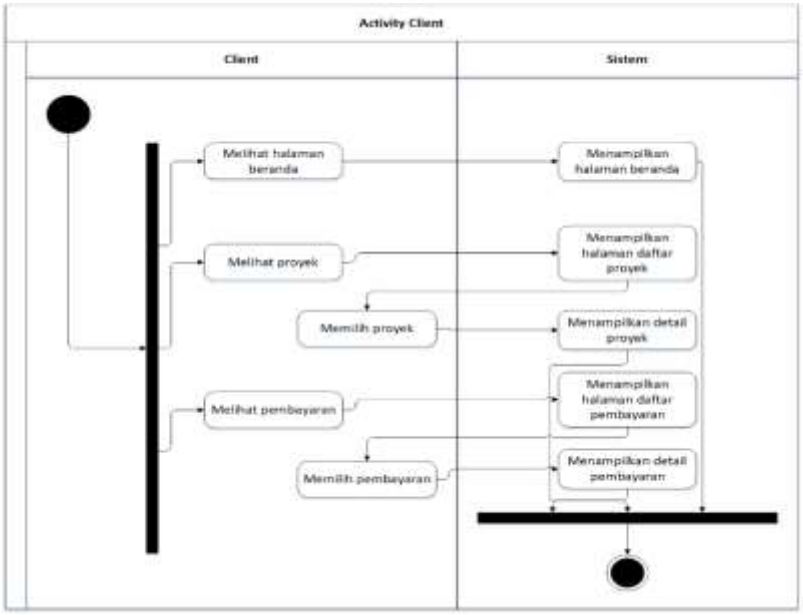


Fig.6 Activity Diagram Client

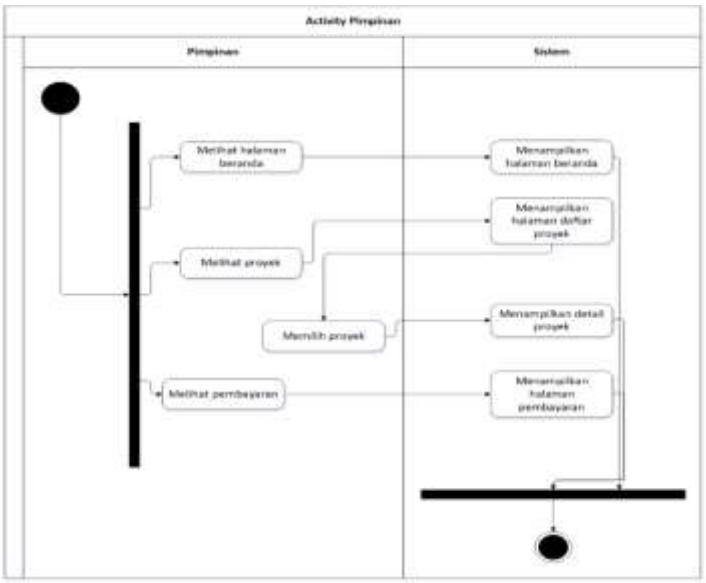


Fig.7 Activity Diagram Leadership

3.4. Construction

From the results of the system design in this study, a project monitoring and payment system was produced using the UI/UX approach. The following shows the results of the login page display on the CV Studio Reka Teknik Project Monitoring Information System, which can be seen in Figure 8. On this page, the user will enter the username and password that was created to enter the monitoring system. If the username and password entered are correct then the system will display the dashboard page, but if the username and password are entered incorrectly then the user will get a notification for failing to enter the dashboard page.

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Fig.8 Login Page

3.4.1. Employee Page

Employee page is a display of user employees. Employee users are users with the highest access rights where this user can add, edit, and delete existing data on the system. On this page, employees can see the progress of the project they are running, and employees can also monitor the amount of payment received from the project work they have completed. In Employee Dashboard View, displays a text containing a greeting or "Welcome Admin". The display can be seen in Figure 9 below;



Fig.9 Employee Dashboard View

Then in the Employee Monitoring Data View menu, where in this section it is possible to monitor planning, supervision and soil test data. In the Planning Data there are several columns including Job Name, Field, Location, Client, Contract Number, Start Date, End Date, Status and Action including Print, Edit and Delete. On the same page there is also the Share feature which is on the right of the page which is used to search for certain data, while on the left of the page there is the Show feature which is used to set the amount of data displayed. For details, see Figure 10 and Figure 11.

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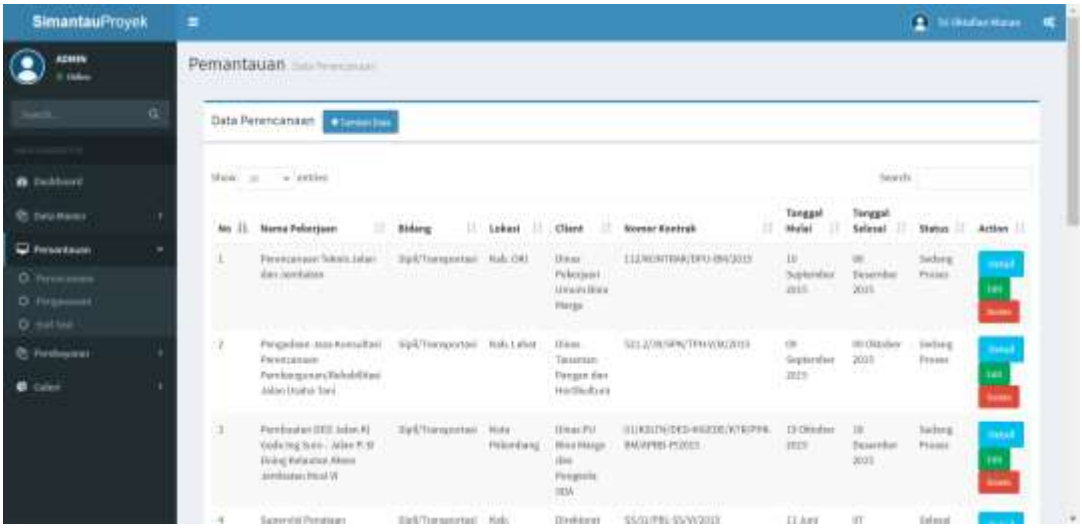


Fig.10 Employee Monitoring Data View

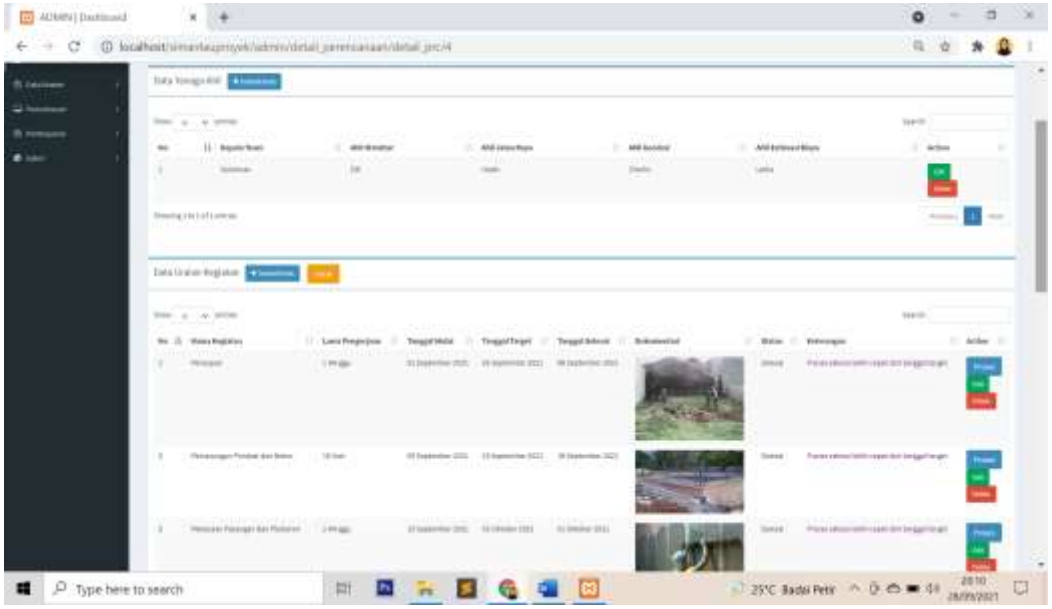


Fig.11 Detailed of Employee Monitoring Data View

And the last menu is Employee Payment Data View, which allows monitoring of payment plans. Can be seen in Figure 12. On this menu there is a Search feature which is used to search for certain data which is on the right, while on the left there is a Show feature which is used to adjust the amount of data displayed. On this menu there are several columns including No, Client, Payment Method, Job Name, Payment Name, Amount, Payment Date, Payment Proof, Action including Print, Edit and Delete.

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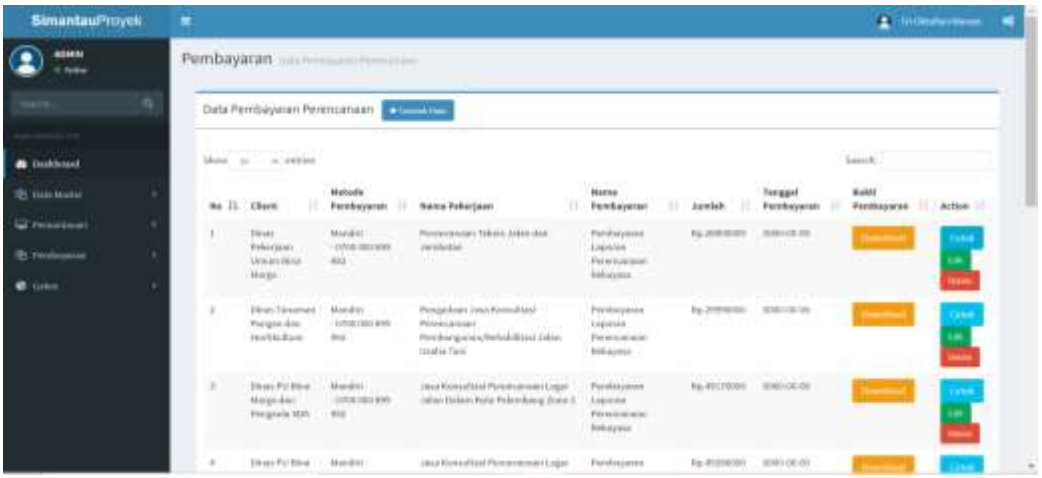


Fig.12 Employee Payment Data View

3.4.2. Client Page

The Client page is a view from the client, in which the client can only view data that has been inputted by employees and edit some of the data that has access rights for client users. In addition, the client can also monitor what percentage of the progress of the completion of the project and what percentage of payments have been paid and have not been paid. The Client Dashboard View displays a greeting for the Client "Welcome Client". As shown in Figure 13 below.

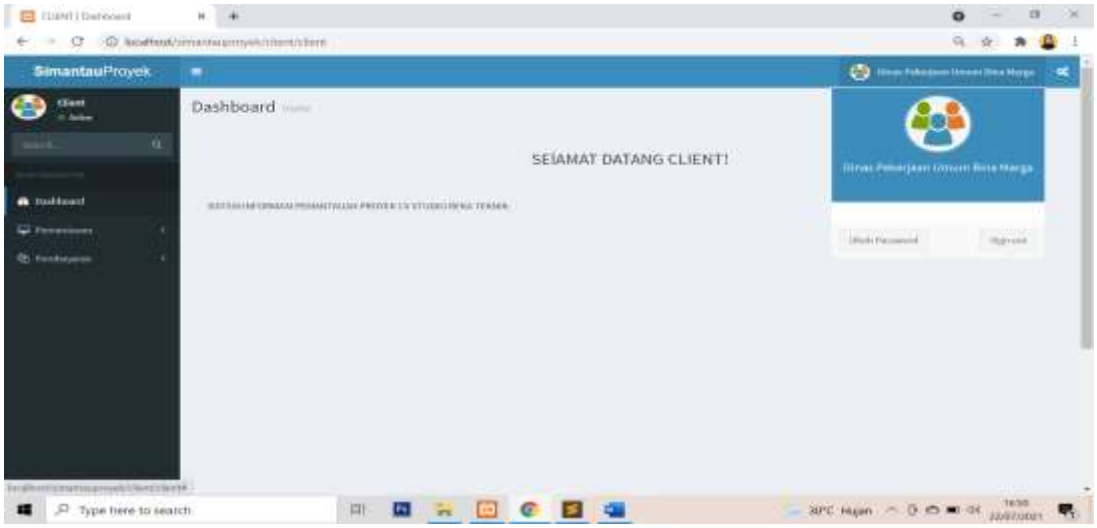


Fig.13 Client Dashboard View

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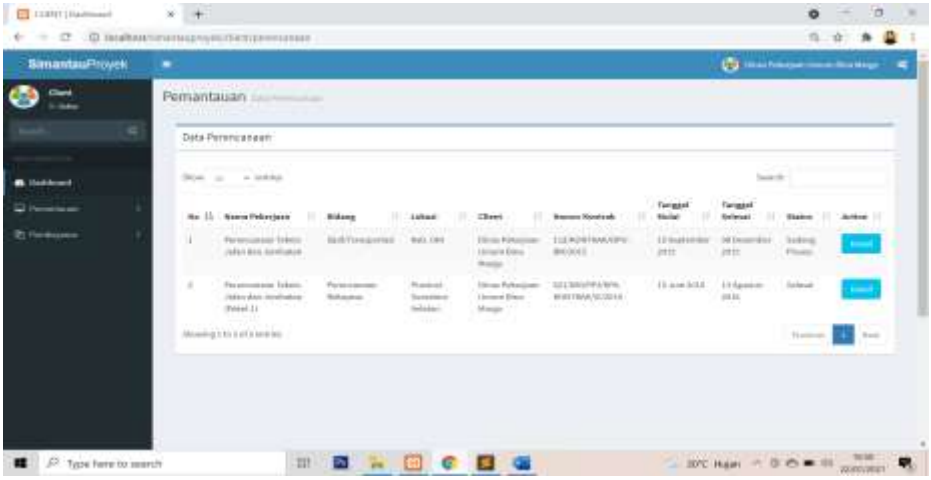


Fig.14 Client Monitoring Data View

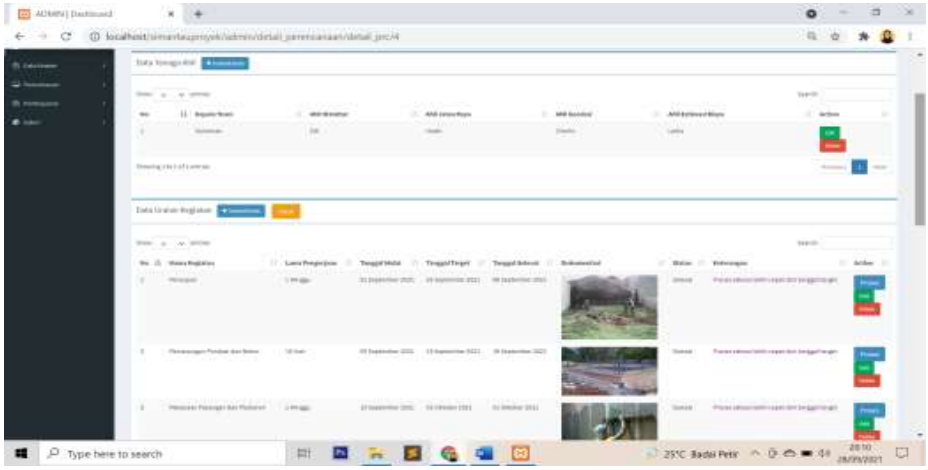


Fig.15 Client Monitoring Detailed Data View

Based on Figure 14 above is a Client Monitoring Data View menu which displays Planning Data, Expert Data and Activity Description Data. In the Planning Data section there are Show and Search features at the top of the page and Previous and Next on the right contents of the data, then below it is a table with columns consisting of No, Job Name, Field, Location, Client, Contract Number, Start Date, End Date , Status and Action Details. In the bottom column there are options Previous and Next.

In the same menu there is also Expert Data which is loaded in the table where there are columns for Team Head, Structural Expert, Highway Expert, Geodesy Expert, Cost Estimation Expert and Action including Edit and Delete. Can be seen in Figure 15 above. Underneath there is Activity Description Data which is loaded in the table where there are columns for Activity Name, Length of Work, Start Date, Target Date, Finish Date, Documentation, Status, Description and Action including Process, Edit, Delete.

Next is the Client Payment Data View menu which displays Planning Payment Data. To display it can be seen in Figure 16. This menu contains the Show and Search features. In this menu, data is also loaded in a table with columns consisting of Client, Payment Method, Job Name, Payment Name, Amount, Payment Date, Payment Proof and Actions include Print and Edit. At the bottom right there are the Previous and Next features.

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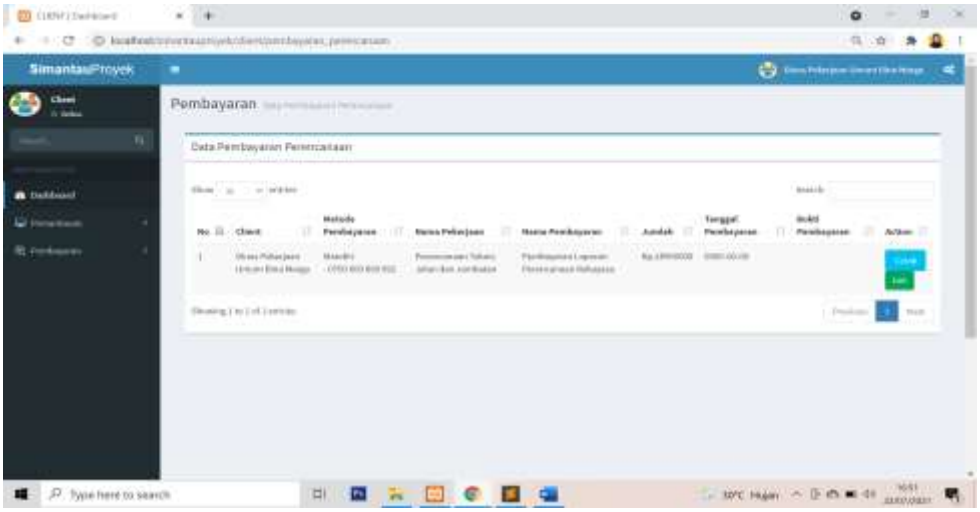


Fig.16 Client Payment Data View

3.4.3. Leader Page

The leader page is a page that can be accessed by the leader, where the leader can only see data that has been input by employee users and cannot add, edit or delete existing data. This is intended for leaders to monitor new project reports, project developments and also projects that have been completed based on reports from employees. In the Leadership Dashboard View, displays a text containing a greeting or "Welcome Leader". The display can be seen in Figure 17 below.

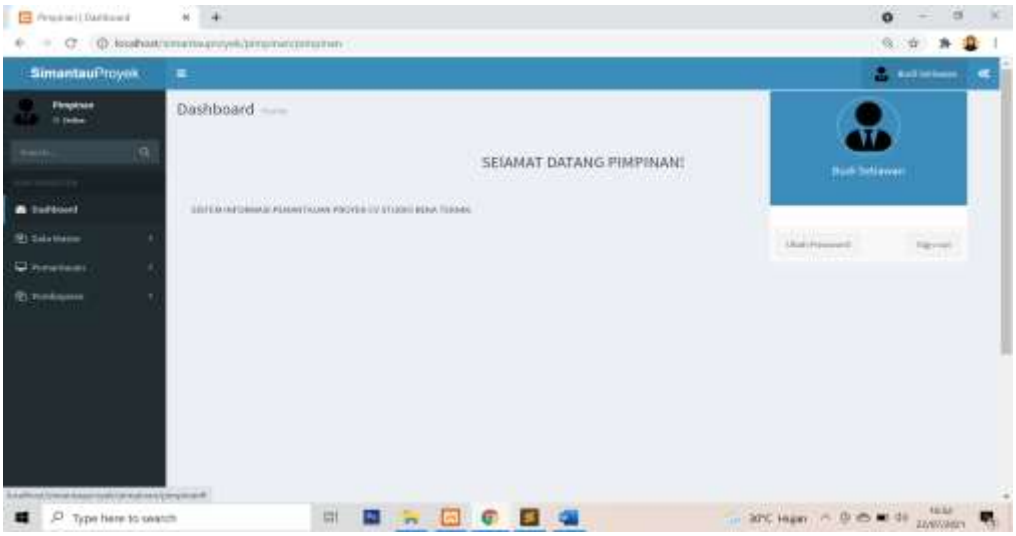


Fig.17 Leadership Dashboard View

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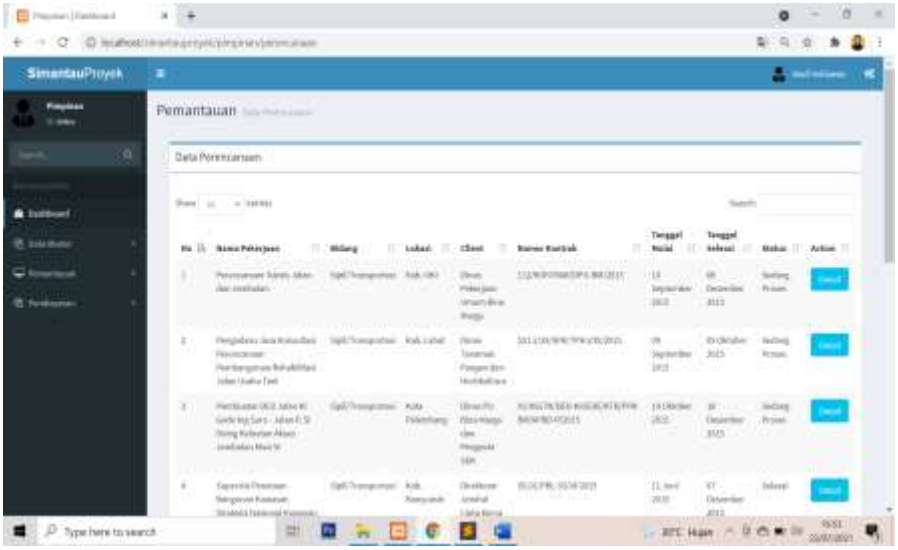


Fig.18 Leadership Monitoring Data View

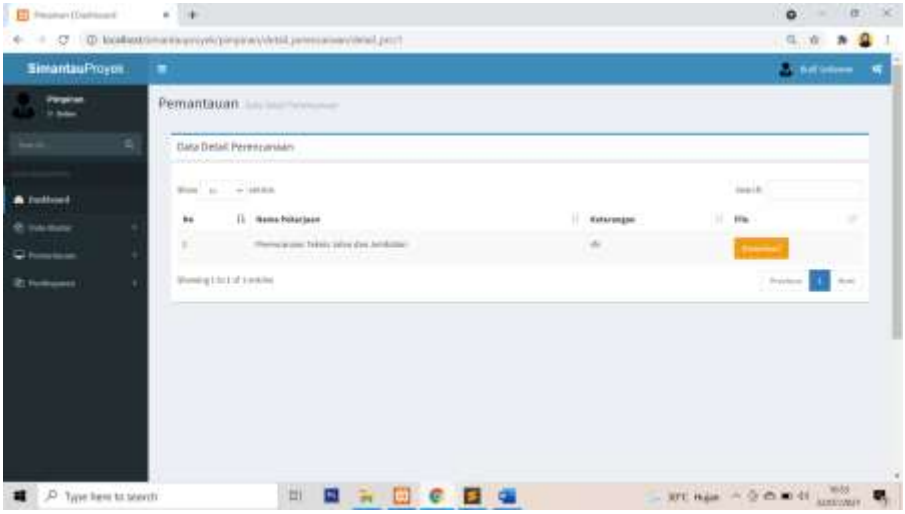


Fig.19 Leadership Monitoring Detailed Data View

Based on Figure 18 above is the Leadership Monitoring Data View menu which displays Planning Data. On the Planning Data page there are Search and Show features at the top, then at the bottom there are Previous and Next options. Then in the data contents section it is loaded in a table with columns consisting of No, Job Name, Field, Location, Client, Contract Number, Start Date, End Date, Status, Action including details. When clicked on details, detailed planning data will appear which is loaded in a table with columns consisting of No, Job Name, Description and File. And there is a download option to download data. On the same page there are Search and Show features at the top and below there are Previous and Next options. For appearance can be seen in Figure 19.

Next is the Payment menu which loads Planning Payment Data in a table with columns consisting of Client, Payment Method, Job Name, Payment Name, Amount, Payment Date, Payment Proof and Action in the form of Print. At the top there are the Show and Search features. For details can be seen in Figure 20 below.

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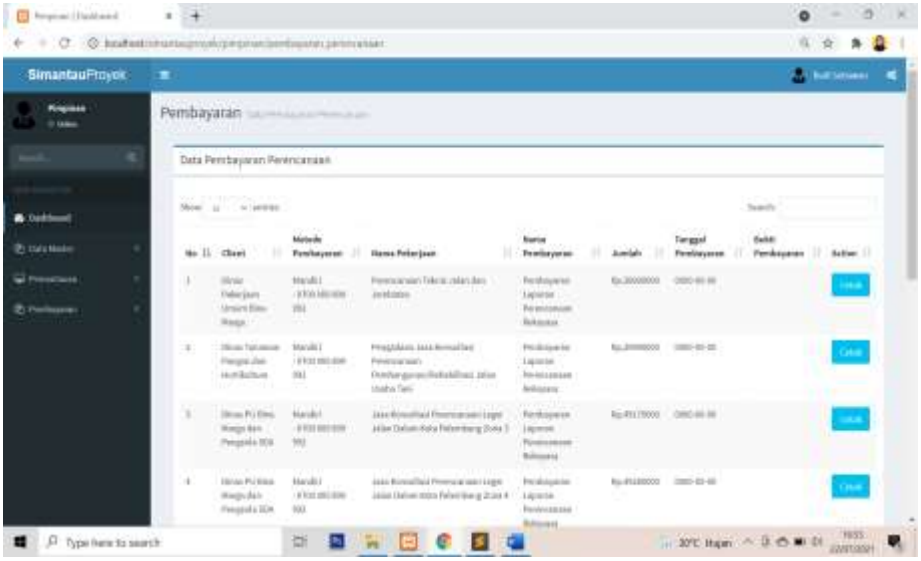


Fig.20 Leadership Payment Data View

3.4.4. Payment Print Page

The printed payment page is a page for 3 users, namely employee users, client users and leadership users. This page will appear when the user clicks the print button in the action column on the project payment page. The printout of this page is valid proof of payment for agreed project work.



Fig.21 Payment Print View

3.5. Deployment

The deployment stage is a stage that provides an improvement on the web on a regular basis for users and evaluates and provides feedback. This stage is carried out after the application has been running well or used in CV. Studio Reka Teknik. As for the system that has been successfully built, there are 3 users and 3 web page views that correspond to the user level, namely employee users and employee pages, client users and client pages, as well as leadership users and leadership pages. The following is an explanation of each of these users:

1. Employee page

On the employee page, users can view, add, edit and delete existing data. There are 3 menu views on the employee page, namely:

a) Master data menu that displays master data such as employee data, client data, and payment method data.

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b) Monitoring menu which displays project data such as planning project data, monitoring project data, and soiltest project data.
c) Payment data menu that displays payment data such as planning payment data, monitoring payment data, and soiltest payment data.

2. Client page

On the client page, users can only view and edit some existing data. There are 2 display menus on the client page, namely:

a) Monitoring menu which displays project data such as planning project data, monitoring project data, and soiltest project data.
b) Payment data menu that displays payment data such as planning payment data, monitoring payment data, and soiltest payment data.

3. Lead page

On the leader page, users can only see existing data. The 3 display menus on the leadership page are:

a) Master data menu that displays master data such as employee data and client data.
b) Monitoring menu which displays project data such as planning project data, monitoring project data, and soiltest project data.
c) Payment data menu that displays payment data such as planning payment data, monitoring payment data, and soiltest payment data.

5. CONCLUSION

Based on the research results that have been obtained by building a project monitoring and payment system at CV Studio Reka Teknik, it can be conclude, firstly, the Web-Based Monitoring Information System at CV Studio Reka Teknik has been tested and implemented in prototype form. Second, project monitoring can be done online so that employees, clients and leaders can monitor ongoing project processes at CV Studio Reka Teknik. And third, monitoring project progress can be done in real time by utilizing the system that has been built. The project payment process can also be faster and easier because it can be done through the system that was built.

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