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DESIGN AND BUILD WEB-BASED FREELANCE APPLICATIONS

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https://doi.org/10.56127/ijst.v2i3 .986 *Abstract*: In today's modern era, many people have switched to looking for freelance work. One of the interesting things is freelance work because there is no work attachment to employee status, so that the person can have several jobs at one time. But until now, to find freelance work is not easy because usually many job search applications provide services only for permanent workers. For companies that are looking for freelance labor is also not easy, because freelance job search provider services are also not much. The purpose of designing this Lancer application is to make it easier for people who want to find freelance jobs. This website is designed using UML (Unified MarkUp Language). The method used in building this website uses SDLC (Software Development Life Cycle) which includes the stages of analysis, design, creation, and testing. This website is created using Laravel and MySQL frameworks. *Keyword*: Application, Freelance, Web-based

INTRODUCTION

In today's modern era, many people have switched to looking for freelance work. Because of the many advantages obtained in freelance work, including flexible working time, workers can adjust work time with other activity times whose most important work is completed. Freelancers or freelancers or also called freelancers can work anywhere and are free to choose jobs that suit their expertise. And usually, freelance work does not take a long time, when the project is completed, the sign is that the freelancer's work is also completed. In addition, freelance workers can also work in several companies at one time, this of course can add portfolio value and improve the skills of the freelancer. The benefits of freelance workers are not only obtained by freelance workers but companies or Recruiters or also called petekrut, also get benefits. Among the benefits obtained by the company is financial gain. Usually, companies / recruiters hire freelancers based on projects within a limited period of time. Companies simply pay freelancers based on projects and do not have to pay various benefits fees like full-time employees receive. In addition, because freelancers always work in several places, this makes freelancers more experience so that freelancers are more skilled and always updated in terms of knowledge. But until now, freelance job information is not easy to get both for freelance job seekers and companies that want to recruit freelance workers. Many applications today are for full-time workers. The design of making the web-based Lancer application is intended for freelance workers to make it easier to find jobs that match their fields and expertise and is also intended for companies that are looking for freelancers to make it easier for companies to get freelance workers according to the criteria needed. This website can store freelancer and company data because this website has a database.

RESEARCH METHODOLOGY

This research, using the System Development Life Cycle (SDLC) method, and several stages are:

- 1. Planning stage, at this stage planning is carried out regarding the creation of freelance websites including the needs of personal data of freelancers and companies on the website and determining the features to be created.
- 2. In the analysis stage, the author analyzes problems in services and collects information related to existing services and the author plans to make applications to provide solutions to current service problems
- 3. Design Stages, In the design stage, the author makes applications using the UML or Unified Modelling Language method. For the creation of design views using the laravel framework.

Database creation using MySQL.

- 4. In the implementation stage, the author uses live server software to display web pages and localhost phpmyadmin to display databases.
- 5. In this stage, the author conducts trials consisting of trials on web browsers and blackbox testing

RESULT AND DISCUSSION

Lancer Website Design Stage

The process flow of this website will be explained using the uml diagram, through the freelancer use case diagram, recruiter use case diagram and activity diagram. In the use case diagram. freelancers can view the start page, view the Service page, view the listing page. On the Login page, freelancers can see recruiters who have entered companies that are looking for freelance workers, and freelancers can choose companies that match freelancers' expertise. For Use case diagrams, recruiters can enter job vacancies according to the needs of the Company.



Figure 1. Use Case Diagram Freelancer Figure 2. Use Case Diagram Reicruter

In this Activity diagram, freelancers can perform several activities such as logging into the application to manage the services provided, managing orders from recruiters, and sending requests to other freelancers.



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Here is the relationship of the class diagram on the lancer website between freelancers, orders and services.



Class Diagram

Figure 4. Class Diagram Freelancer

This lancer website has 10 tables, namely user table, user detail table, user experience table, service table, user advantage table, tagline table, service advantage table, service thumbnail table, order status table. The figure below is a relationship between existing tables.





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Display Design

In designing a lancer website page there are 2 website pages on this website, namely the page for freelancers and the page for recruiters

1. Home Display Design

The design of the home page consists of several menus such as the Lancer web application logo text, Home, Find Services, Login, and Register. Then there are also text highlights about the Lancer web accompanied by images. Then there are several services displayed in the home section.



Figure 6. Home Display Design

2. Find Services Display Design

The design of the Find Services page is divided into several menus such as the same navigation section as before and a menu section that displays all existing services.



Figure 7. Find Services Display Design

3. About View Design

The design of the About page display is a section that displays an overview of the lancer website.



Figure 8. About View Design

4. Register Display Design

The register display design for users consists of a Sign up title and several inputs that need to be filled in, including Full Name, Email, Password, and Confirm Password. Then there is a Sign Up button.



Figure 9. Register Display Design

5. Login Display Design

The login display design for users has elements similar to the register page. The login page only requires two inputs, namely for <u>email and password</u>. Then there is the Login button.

LANCER	Button 1 Button 2	Button 3 Button 4
Text 1 Text 2 Button 5	Text 1 Text 2 Text 3	Image 1
Teks 3	Text 4	
Image 2	Text 5 Text 6 Button 1 Button 2	Image 5

Figure 10. Login Display Design

6. Recruiter Dashboard Display Design

The dashboard display design for recruiters consists of dashboard menus, requests and edit profiles, for content there is a title for the Recruiter Dashboard, then there is text for the number of requests on progress and text for requests completed, after that there is a table of latest requests.

Image 1	Text 2	Text 3
Text 1 Button 1	Text 4	Text 5
Button 2 Button 3 Button 4 Button 5	τα	ble

Figure 11. Recruiter Dashboard Display Design

7. Request Display Design

The design of the request page for recruiters consists of the title My Request, then there is a +Find Services button, and there is a table of my Requests.

image 1	Text 2	Button 6
Text 1 Button 1 Rutton 2	Table	
Button 2 Button 4 Button 5		

Figure 12. Design Display Requests

8. Freelancer Dashboard Display Design

The dashboard display design for freelancers consists of dashboard menus, services, client orders and edit profiles, for content there is a title for the Freelancer Dashboard, then there is text for the number of services on progress, the number of services completed and text for total clients, after that there is a table of Recent Clients.



Figure 13. Freelancer Dashboard Display Design

9. Design Services View

The design of the service page for freelancers consists of the title My Services, then there is a +Add Service button, and there is a My Services table .



Figure 14. Design Services View

10. Add Service Display Design

The design of the Add Service page display for freelancer users has the title Add Your Service, then there are several inputs such as title, description, service performance, service estimate, price, thumbnail, note, and tagline. And end with the Create Service button.



Figure 15. Add Service Display Design

11. Client Orders Display Design

The design of the Client Order page for freelancers consists of the title Client Orders, then there is a client orders table.



Figure 16. Client Orders Display Design

12. Display Design Edit Profile

The design of the Edit Profile page display for users consists of the title Edit My Profile, then there is a Choose File button to change the profile photo, after that there are several inputs such as Full name, Occupation, Email Address, Contact Number, Biography, and Experience.

Image 1	Text 2	
Text 1 Button 1	Button 7 Text 3	Text 4
Button 2 Button 3 Button 4 Button 5	Text 5 Text 7	Text 6
Button 6	Text 8	

Figure 17. Display Design Edit Profile

Implementation

1. Home Page Output Display

On the Home page, users can see the start page displayed when users want to visit Lancer's website. Here is what the home page looks like.

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Figure 18. Home Page Output Display

2. Find Services Page Output Display

On the Find Services page, users can see a list of existing services from various freelancers. Below is what the page looks like





3. About Page Output Display

On this About page, there is information about the Lancer website that users can know. Below is a look at the page.



Figure 20. About Page Output Display

4. Login Output Display

Login Display is where users can fill in their email and password to then enter the dashboard page. Below is a look at the page.



Figure 21. Login Output Display

5. Display Output Register

The Register view is where the user creates an account and will be verified, then the user can enter the dashboard. Below is a look at the page.

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Figure 22. Display Output Register

6. Output Display of Recruiter Dashboard Page

The Recruiter Dashboard page will be displayed to users after successfully logging in. On this page, recruiters can see the number of requests on progress, requests completed, and latest requests. Here's what the page looks like.

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Figure 23. Output Display of Recruiter Dashboard Page

7. Requests Page Output Display

The Request page is a page where recruiters can see a list of freelancers who have been hired. Below is a look at the page.

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Figure 24. TDisplay Output Page Requests

8. Output Display of Freelancer Dashboard Page

The Freelancer Dashboard page will be found by the user after successfully logging in and then clicking the freelancer dashboard button. On this page, freeelancer can see the number of services on progress, services completed, clients total, and latest clients . Here's what the page looks like.

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Edit Profile					
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Figure 25. Output Display of Freelancer Dashboard Page

9. Services Page Output View

The service page is a place where a freelancer can see a list of services they have created before. Below is a look at the page. IJST Vol 2 No. 3 | Nov 2023 | ISSN: 2828-7223 (print), ISSN: 2828-7045 (online), Page 24-35



Figure 26. Services Page Output View

10. Add Service Page Output Display

The Add Service page will be accessed by a freelancer when they want to add a new service. Below is a look at the page.

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Figure 27. Add Service Page Output Display

11. Client Orders Page Output Display

The client orders page is a page where a freelancer can see a list of clients who have requested the creation of services offered. Below is a look at the page.

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Figure 28. Client Orders Page Output Display

12. Output Display of Edit Profile Page

The Edit Profile page will be encountered by users when they want to update or edit their profile information. Below is a look at the page.

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Figure 29. Edit Profile Output Display

Trial

Freelance application trials are carried out to test and verify all application functions, as well as ensure whether the application runs properly or not. The test method used is *black box testing*.

Table 1. Drowser That				
No.	Browser Type	Version	Result	
1.	Google Chrome	115.0.5790.171	The application runs successfully and is well connected to the	
			database. (Successed)	
2	Microsoft Edge	115.0.1901.200	The application runs successfully and is well connected to the <i>database</i> . (Successed)	
3	Mozilla Firefox	116.0.2	The application runs successfully and is well connected to the <i>database</i> . (Successed)	

Tabel 1. Browser Trial

CONCLUSION

The lancer website has been successfully created and implemented using the laravel framework and mysql. This website provides information on job vacancies for freelance workers, making it easier for freelancers and recruiters or companies who will look for work and find workers. On this website there is also a portfolio update for freelancers who have added to their experience. From the test results that have been carried out using three browsers, it can be concluded that all features can run well as expected.

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