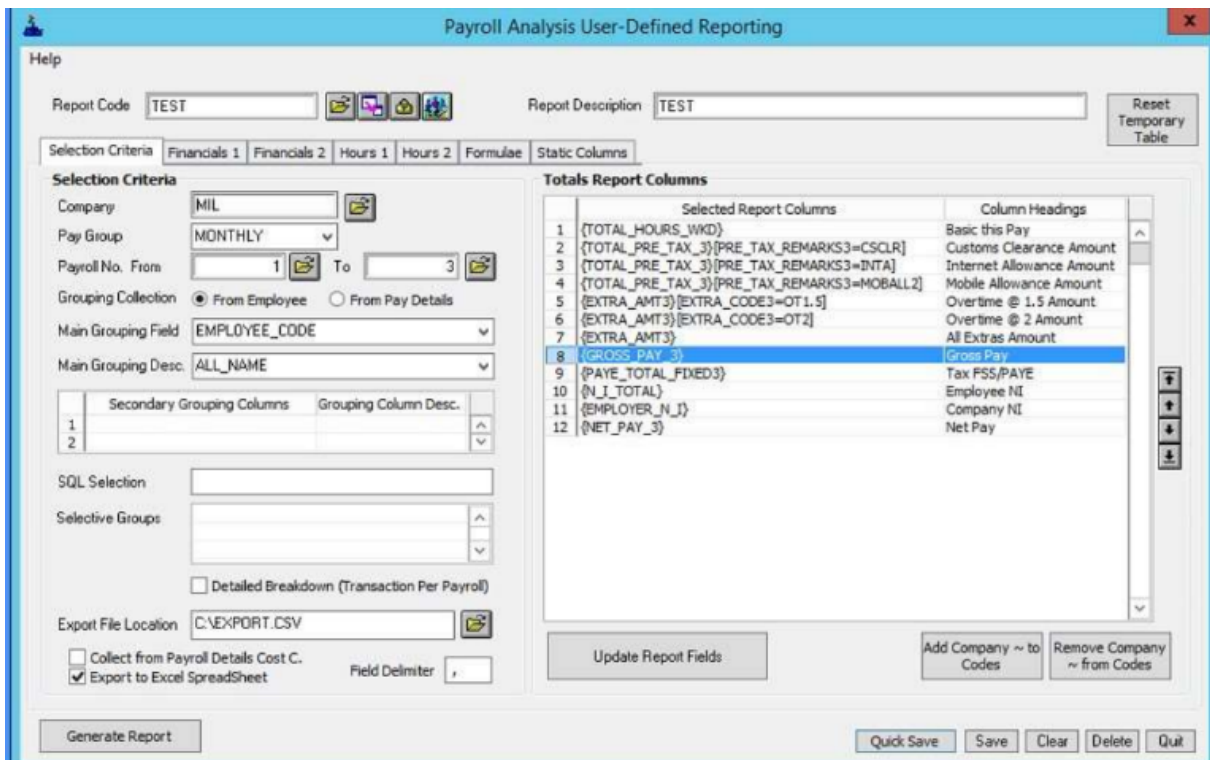


Dakar Payroll System

UI/UX Front-End Developer Task



Payroll Analysis User-Defined Reporting

Report Code: Report Description:

Selection Criteria: Financials 1 | Financials 2 | Hours 1 | Hours 2 | Formulae | Static Columns

Selection Criteria

Company:

Pay Group:

Payroll No. From: To:

Grouping Collection: ☒ From Employee ☐ From Pay Details

Main Grouping Field:

Main Grouping Desc:

	Secondary Grouping Columns	Grouping Column Desc.
1		
2		

SQL Selection:

Selective Groups:

☐ Detailed Breakdown (Transaction Per Payroll)

Export File Location:

☐ Collect from Payroll Details Cost C. ☒ Export to Excel Spreadsheet

Field Delimiter:

Totals Report Columns

	Selected Report Columns	Column Headings
1	{TOTAL_HOURS_WKD}	Basic this Pay
2	{TOTAL_PRE_TAX_3}{PRE_TAX_REMARKS3=CSCLR}	Customs Clearance Amount
3	{TOTAL_PRE_TAX_3}{PRE_TAX_REMARKS3=INTA}	Internet Allowance Amount
4	{TOTAL_PRE_TAX_3}{PRE_TAX_REMARKS3=MOBALL2}	Mobile Allowance Amount
5	{EXTRA_AMT3}{EXTRA_CODE3=OT1.5}	Overtime @ 1.5 Amount
6	{EXTRA_AMT3}{EXTRA_CODE3=OT2}	Overtime @ 2 Amount
7	{EXTRA_AMT3}	All Extras Amount
8	{GROSS_PAY_3}	Gross Pay
9	{PAYE_TOTAL_FIXED3}	Tax FSS/PAYE
10	{N_I_TOTAL}	Employee NI
11	{EMPLOYER_N_I}	Company NI
12	{NET_PAY_3}	Net Pay

Submitted by:
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Team Lead: Mr Frederick Bowman

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Abstract

In response to the evolving requirements of modern companies, this task will transform a traditional payroll system into a dynamic web-based platform. The goal is to easily transition existing functionalities while adding new ones that improve accessibility, flexibility, efficiency and User Experience.

Crucial to this performing is the creation of a user-centric interface that respects the familiarity of the original system while embracing web technology's interactive features. Users will have a smooth transition as they walk through the UI, allowing them to select and adjust their favorite fields for CSV report generation.

This task's key components include an extensive decision-making process that allows users to easily choose from a variety of areas relevant to their reporting needs. Once completed, the system will quickly compile the specified fields into a CSV file, providing users with a simple and exportable report.

This task's through design and implementation aims to bridge the gap between tradition and innovation, guaranteeing a smooth transition for users used to the current payroll system. By using the power of web-based technology, the transposition process promises to improve accessibility, scalability, and overall user experience, bringing in a new era of company effectiveness and productivity.

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1 Researched Material

My approach to completing this task involved paying close attention to the balance of the basic functionality of the existing payroll system while smoothly integrating modern web technologies to improve usability and accessibility. I'll start by conducting a brief analysis of the current system, identifying important features and user interactions that are essential to the transition to be effective. Using industry best practices in UI/UX design and front-end development, I created a simple and straightforward UI that facilitates the process of choosing and setting up fields for the CSV report generation. Throughout the development phase, I prioritized flexibility, enabling for future enhancements and the adaptability to evolving company requirements.

In addition, this task's front-end technologies included HTML, CSS, and JavaScript, as well as jQuery. The languages used were chosen based on the task's specific requirements. Given my good knowledge of HTML and CSS, using them came naturally to me, to enhance and include some responsiveness to the style and structure of the page I made use of a mix of bootstrap and original CSS. Moreover, JavaScript and jQuery was a requirement to opt for to provide functionality to the web-based application. While my basic understanding of JavaScript and jQuery enabled me to program functionalities such as list manipulation and button interactions, I went on to conduct additional research to tackle more complex tasks, such as generating a CSV file, which required me to learn new programming techniques.

Furthermore, throughout this work, I used a variety of resources from websites to improve my skills and knowledge. Platforms such as W3Schools, Geeks for Geeks, and CodePen were beneficial tools, providing extensive tutorials, informative articles, and practical examples to help me learn. These platforms not only helped me comprehend HTML, CSS, JavaScript, and jQuery, but they also provided advice on best practices and advanced web development approaches.

Furthermore, when faced with difficulties or errors throughout the development phase, I relied on support websites such as Stack Overflow and other relevant documentation sources to seek solutions and get insights from the developer community's collective expertise. I also used AI tools partially when managing the report generating functionality. Despite I was able to successfully overcome hurdles and improve my skills throughout the task.

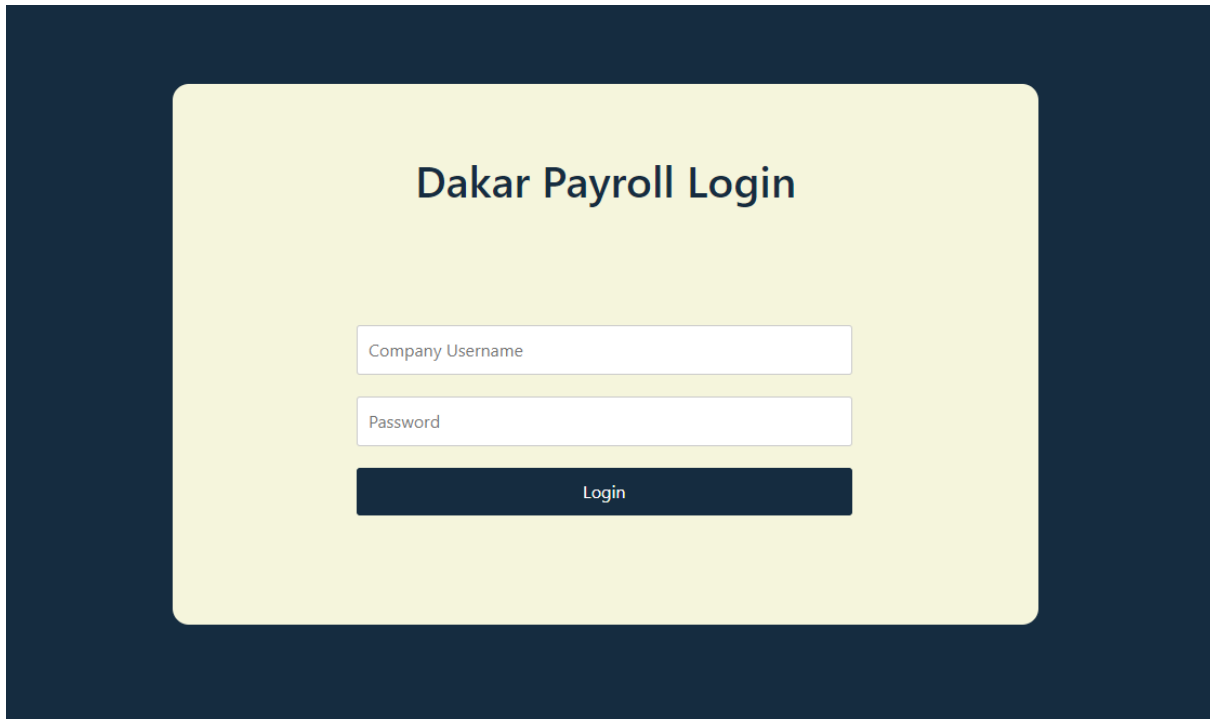
2 Conclusion

In conclusion, completing this assignment successfully I hope it represents an important turning point in the company's payroll system transformation path. The shift to a web-based interface has improved accessibility and flexibility while also streamlining the process of creating personalized CSV reports. Using a variety of technical resources, including educational platforms, support websites, and AI technologies, allowed for a complete approach to problem solving and skill enhancement throughout the development process.

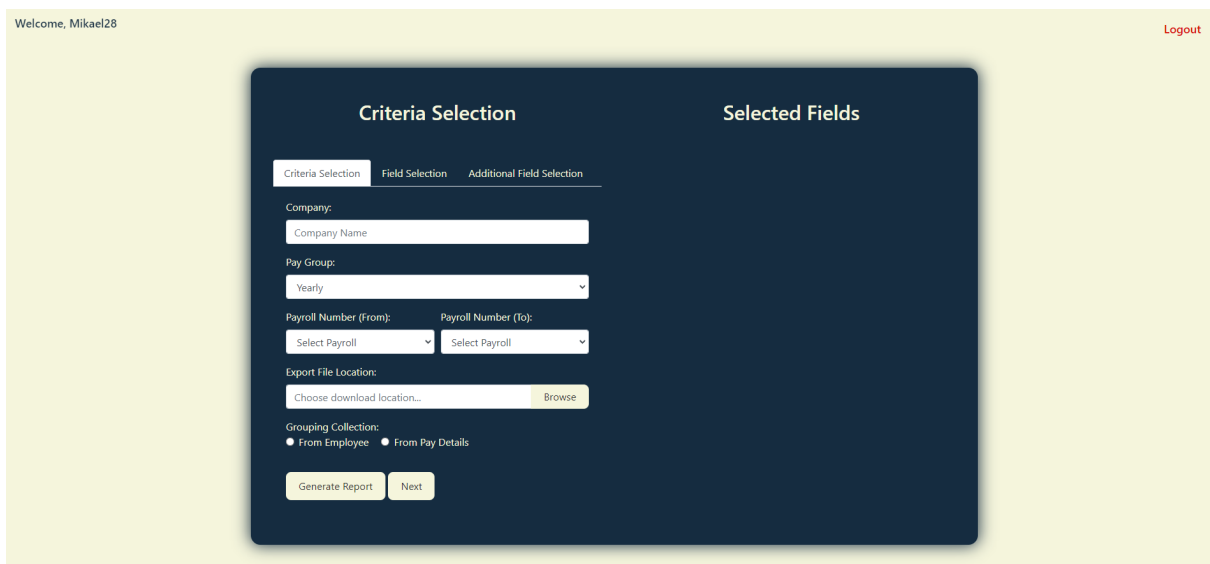
This task demonstrates the company's commitment to innovation and adaptability, setting up the stage for future efforts to improve efficiency, user experience, and overall productivity. Moreover I would like to thank the company, as by encountering new challenges, I have learned more about web-technologies and the functionalities necessary.

3 Appendix

In the Appendix section one can see the approaches and steps throughout the development phase



The image shows a login screen for the Dakar Payroll System. It features a dark blue background with a central light yellow rounded rectangle. Inside this rectangle, the title "Dakar Payroll Login" is centered at the top. Below the title, there are two input fields: "Company Username" and "Password". At the bottom of the form is a dark blue button labeled "Login".



The image shows a "Criteria Selection" screen within the Dakar Payroll System. The screen has a light yellow background. At the top left, it says "Welcome, Mikael28" and at the top right, there is a "Logout" link. The main content area is a dark blue rounded rectangle with a white header bar containing three tabs: "Criteria Selection", "Field Selection", and "Additional Field Selection". The "Criteria Selection" tab is active. Below the tabs, there are several form elements: a "Company:" label with a "Company Name" input field; a "Pay Group:" label with a dropdown menu showing "Yearly"; "Payroll Number (From):" and "Payroll Number (To):" labels with "Select Payroll" dropdown menus; an "Export File Location:" label with a "Choose download location..." input field and a "Browse" button; and a "Grouping Collection:" label with two radio buttons, "From Employee" (selected) and "From Pay Details". At the bottom of the form are two buttons: "Generate Report" and "Next".

