Fairpay

Team members:

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Project Code:

https://github.com/doves777/fairpay

URL to the server:

http://18.217.100.65/login.php

Information problem that we tried to solve:

The information problem we tried to solve was to fix the way small businesses pay their employees. Small business owners must hand write and input data into spreadsheets that track and calculate employee pay per week. This is time consuming and at times can be unreliable. There can also be trust issues that arise with the manager manually keeping track of payments and paying out the employees. Most small businesses have no real point-of-sales systems, and especially one that can deal with commissions.

Strategies/solutions to solve the problem:

The solution for this problem that we can up with was to create a point-of-sales application that can be accessed and used on a computer.

Rationales and Justifications on system design and technology:

We went with technologies we knew to the best extent for our system. We wanted to choose the technologies that we knew how to use best to build the system we wanted to build. We used AWS EC2 to host the server and then used AWS RDS to host the MySQL database. For editing and the handle of our files we used workbench, WinSCP, and Ubuntu. We used workbench to connect to our RDS and handle the Fairpay database we are using. We used WinSCP to transfer our files from GitHub and any local files to the server. Lastly, we decided to use a Ubuntu terminal to move files from the root directory to /var/www/html folder where it could be live on the server.

How the final system solves the problem:

The final system would solve the problem by giving the managers a "manager access page" where they can control information about their employees and products/services, look at previous sales they made, and changing the manager and employee payout percentages.

Challenges faced and their impact on the final design:

It's still a challenge to get the checkout page to work. We can't figure how to implement the part that employees would use to checkout a customer. An example is selecting a service a customer wants and getting that to show up on the order screen. As a result, we don't have functionalities for the employees to use the system.

Future work:

As is, FairPay is able to solve the intended information problem. A business could hypothetically use FairPay to ensure that employees are compensated fairly for the sales they make. It is still missing some production-level functionality. It is currently not very easy to view many transactions or find a single transaction if there are a lot to sort through. If we were to sell FairPay to a business, we would add search bars and other sorting and filtering functionality to make finding the records one wants to see easier. We would also flesh out input validation and error handling.