**Application Programming – Project in Django using Python**

**DONE BY:**

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Index Page:

A screenshot of a computer

Description automatically generated

This is our Index Page where people can create their userid and password to login the employee system.

Registration Page:

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Employee should satisfy the password criteria to create their User.

Login Page:

A screenshot of a login form

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Once account created Employee can able to Login

Dashboard Home Page:

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I logged in as admin so, he has the super user access to view/edit all the modules.

Once you click the “click here ”button admin can able to edit/delete the employee details. And there is a create record button where we can add our new employee details.

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I deleted the 3rd row and updated the 2nd employee address using the above function.

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I created a new employee using the above form.

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**My shift console:**

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Here employee can see their punch in and punchout date/ break taken & time. And they should do punch in and punchout before and after leaving their job.

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A screenshot of a computer screen

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A screenshot of a schedule

Description automatically generated

This is how the captured time displayed and stored in the backend table.

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Similar like punch In and Out we too have a break punch system. The alert will capture the timeings.

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Scheduling Module:

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By clicking the My schedule button employee can able to see their weekly working schedule along with the date and time.

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Next is the timeoff Button.

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This is the place where the employee can update their upcoming week availability. And the employee will have access to edit at any time.

Manage Schedule :

This is specifically for the Shift Manager who is responsible to allocate shifts for the employee.

Here the Shift Manager has whole access to modify at any time and they can only view the employee timeoff request by clicking the top link.

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Payroll Module:

This will have the employee sensitive data like pay rate, bank details and SIN so admin can have the access to create/edit/update/delete any records at any time.

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Once you clicked the Genrate Paystub button it will redirect to the below page.

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Press the calculate button will calculate the total pay and show as below.

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**Exceptions:**

Our application captures the employee login and logout times and according to the total hours worked they will get paid, That’s one of our criteria but due to the time constrain we are only able to get the punchin and punchout time into the table but we stuck to retrieve the data to use it for payroll. Instead we are using total working hours which specified in schedule\_table.

So far we developed the application from admin point of view because the user who logged they can able to see all the table details.

To handle this issue. we need to create a function to get details from payroll and timing table about the hours worked and payrate so that we can get the precise payment for each employee.

**Challenges:**

While integrating the UI and Backend there are conflicts aroused in DB table creation because we tried to add a foreign key to another table which already has data in it then,

Finding out the Django pre-defined functions is one of the challenging thing we got base knowledge from your class notes but decorating ,linking the pages and retrieving the table ware quite complex but using linkedin learning, online Materials and Youtube we figured out best solution.