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GROUP B

Module: **Web TECHNOLOGY**

PROJECT NAME: EMPLOYEE ORIENTATION TRACKER

PROJECT DESCRIPTION DOCUMENT

1.PLANNING

The goal of this project was to develop an employee orientation tracker system that can be used to track employee work flow in our system and generate an overview of EOT, which will be used for reporting purposes. The main objective of this employee orientation tracker was to create a user-friendly interface with functionalities that allows easy management of our working and accurate tracking of the current schedule status. This system also aims to solve the problem of manual tracking of employee works, which can lead to errors and inaccuracies, the system will save us a lot of time and will perform quick and accurate reads in a few seconds. The future system will focus on the improvement of the user interface and adoption of more different technologies, which will improve reporting techniques and make the process easier than today.

2.Design

Our EOT have a beautiful and user-friendly interface designed well. The system is composed by 3 different interfaces which are implemented accordingly your role in system through login, if you are “admin” you reach webpages where you can modify and make any changes in system. If you are an “Employee” you can reach where you have to retrieve information of system. Whether you are “user” you can access our websites which contain catalogs our services, about us and so on. Admin User will login by using our login form which will first check if username and password any record in database, if it matches the form will direct Admin INDEX to the report page or home page where he will get necessary real-time information about the current situation of system. He will also be able to navigate to other interfaces to manage (record, update, delete) categories employee, projects, sites, sessions, user’s information. All recorded data will be saved to MySQL database and retrieved in tables at their corresponding interface page. On Employee webpage ADMIN User will be able to record new employee information, update existing and delete any data as he/she wants. On projects webpage should also be able to record new project if there is one, view the available project, update project information and delete some project information as long as it is necessary. On all pages, Also ADMIN will have ability to perform data management activities as he or she can on the above interface of those webpages. As we highlighted in planning stage the main purpose of the project was to develop employee orientation tracker to track employee’s info’s in our system. In our case, we have a big company and many employees in our company. So here the main functionality is ADMN will record employees and project all work done from by sites using project webpage and employee, this changes will be reflected to webpage which retrieve those data recorded , where we can see the available employee in system or projects, to do that he will choose a site to orients and project could be active on. As our system will be used by a triple user who interact with our EOT system it depends on her or his role from database. he/ she will need to login first by using his or her own login credentials, and then he can access all other functionalities like record information update or delete. Functional and non-functional requirements are implemented in this system. For instance, system have user friendly interface which is easy to navigate, security as only system administrator can log in the system, speed as the system process data very quickly and many more requirements.

3.Development

Our EMPLOYEE ORIENTATION TRACKER system was developed by using html language, php, css, and java script. Sublime text editor is tools used develop this system. html provides a rich set of user interface components such as buttons, password fields, text fields, tables, labels and many more, that can be easily using our system with that functionality we have designed front-end system with a good-looking user interface. sublime text also provide source code text editor for writing and editing java code with syntax highlighting, code completion, error highlighting and refactoring. That is where we have written all back-end codes including functions to record retrieve and update data in the database as well as other logic to handle system's functionalities. With the use of php we was able to connect the back-end code with the database, allowing the system to communicate and perform operations like inserting data in and retrieving data from database. XAMMP server was used to design MySQL database called employee_orientation_tracker with 5 tables such as user (with fields: userid PK, fname, lame, username, password, role TABLE employee (with fields:EmployeeID pk, FirstName, Lastname, Position, contactNumber,Email), projects (with fields:projectIDPK ,ProjectName,department, EmployeeID FK, place),

sites(with fields: SiteID PK,SiteName ,Location),orientationsession (SessionID PK, SessionDate, SessionTime , SiteID FK , conductedBy FK ,projectID FK). The above tables were designed with their relationships to ensure effective operation and connection between back-end, front-end and database of our employee orientation tracker system.. Database is designed by using XAMPP server and it is connected to backend code with the use of php5 version with mysqli querries and storage like github cloud storage was used to store application files and on local machine application and its data well stored correctly.

4. Testing

The system's performance was tested and monitored by using manual testing methods to ensure quick response time and data accuracy. During this stage, we found some serious defects and bugs and worked our best to fix them. Firstly, forms were able to submit empty text fields into database to solve this problem we first checked if user filled some data in text field to process the process of inserting that new record in database. Secondly, clicking delete or update buttons without selecting a record to delete or update used to cause bugs in the background, to solve this problem before running update or delete code we first check a condition to see if there is exactly a record selected and if yes that specific record would now be deleted or updated and if no record selected the message is displayed telling

a user to select a record to delete or update. After fixing the above two bugs system now runs correctly without any bug and it have high accuracy of data as we expected before developing this employee orientation tracker system.

5.Deployment

Employee orientation tracker system was deployed on a local laptop for testing and performance monitoring. Starting from index webpage it direct to login or register form only user who type in username and password that matches any user database record if not it display on your screen an error message telling you that you enter incorrect username and or password or user not found. We also filled other remaining forms with data and submit them the result was what we expected because data were submitted into database tables exactly the way we wanted. The key functionality of our employee orientation tracker system was to track employee information's in his or her daily work flow.