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Please Refer To The Demonstration

Introduction

EPI-USE is part of groupelephant.com, which employs more than 3,000 people in 33 countries. EPI-USE is known as the world's largest and most experienced independent SAP HR/Payroll specialist, and designs, builds and implements Cloud-based, hybrid and on-premises HR/Payroll systems for large, complex multinational corporations.

Client

The client has requested that we create a proof of concept. This proof of concept will contain business features that describe the services we are requested to perform. The client stipulated that they would prefer the POC interact with the user in a simple and convenient manner. Our goal is to ensure that their business goals are met and delivered in an appealing fashion. Refer to the following tasks given by the client

1. Enable [innovative searching](#) features to search for an employee per the criteria above with an output of the matched employees based on the entered criteria
2. Enable [identifying of employees](#) based on their date of birth, comparing this to a selected or entered date (e.g. listing all employees born after 01/01/1990)
3. [Report a full organizational structure](#) in any display format that would benefit the end user. Ex:

Client Guide with Pictures

Employee

Number	Role	Name	Surname	Dob	Salary
3	Employee	Jim	Bean	Aug. 20, 1986	R1500000.0
6	Manager	John	Did	Jan. 31, 1995	R750000.0
1	Manager	John	Smith	Nov. 18, 1980	R700000.0
79	Manager	Molefe	Molefe	Oct. 21, 1999	R450000.0
2	Employee	Jane	Doe	Jan. 31, 1995	R150000.0
7	Employee	Josh	Taylor	July 15, 1992	R150000.0

These are all the employees in the table

Search Results

- Employee ID: 45 - Rahima Poonyanee is Epiuse's Employee
- Employee ID: 69 - Gilad Mannington is Epiuse's Trainee
- Employee ID: 2 - Jane Doe is Epiuse's Employee
- Employee ID: 7 - Josh Taylor is Epiuse's Employee
- Employee ID: 79 - Molefe Molefe is Epiuse's Manager
- Employee ID: 6 - John Did is Epiuse's Manager

A user will enter a date of birth and the search results will display all the people born on the date and after

Employee

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A user can click on the employee number and it will take them there

- Roger is supervised by Jim
- Susan is supervised by Jim

Getting Our Feet Wet

The technology powering this web application is called Django. Django is a heavy-weight web framework that allows dynamic development of web-based interfaces. It uses python as the primary language for back-end development. Frameworks such as Django are really good at allowing developers to use multiple languages to achieve different goals. In this instance, we used javascript to send asynchronous requests to the database and display search results in real time. Django also supports markup languages such as XML and HTML with an addition of templating languages, such as Jinja, that allow developers to avoid boilerplate code by replacing mundane code with objects that resemble variables so that features can be reused

Additional Feature

The additional feature added on this project was asynchronous database access. Meaning that users can request database information without having to refresh the page. This creates a more seamless experience to increase customer satisfaction, after all the Customer is King. The javascript fetch API was used in place of AJAX which accomplishes the same task. However, fetch API had csrftokens that were easier to use than AJAX.