Django Based Web Application to Empower Skilled People

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Abstract- This paper focuses on development of web application using Django. Django is a modern Python web framework that redefined web development in the Python world. A full stack approach, pragmatic design, and superb documentation are some of the reasons for its success. Django, an open-source Python web framework that saves time and makes web development fun. Django follows the Model-View-Controller (MVC) architectural pattern. Its goal is to ease the creation of complex, database-driven websites. Django emphasizes reusability and "pluggability" of components, rapid development, and the principle of DRY (Don't Repeat Yourself). Python is used throughout, even for settings, files, and data models. Technological Implementations in the field of job search has helped skilled people as well as people who wants skilled workers in very important ways. The availability of all job searching sites helps the skilled people a lot in their day-to-day life. The paper illustrates a website model with the help of which skilled people can be able to update their skills and people who wants skilled workers can find them from the same digital platform as well. The project is developed on Django Framework; the backend development is in Python, Jinja2 and SQLite. The frontend consists of HTML, CSS and JavaScript. The project developed is highly efficient, user-friendly and simple.

Indexed Terms- DRY, MVC, pluggability, user-friendly

I. INTRODUCTION

In this era of digitalization, the availability of different resources on different digital devices is making our lives easy and convenient. In the field of employment too, there are many job finding websites that provide platform for job finding as well as hire workers. But, most of them are for professional peoples having certificates of their skills. Except these professionals there are various peoples having good skills in various fields. Especially in rural area such a skilled people are struggling for finding works. Also, some people want skilled manpower for their work. But due to lack of communication they are unable to hire them. Taking these problems under consideration, the idea of an online platform for finding skilled workers in nearby locations was developed named Web application to empower skilled people. The idea is to provide single platform where skilled people update their skills as well as contact details and people who wants workers can find them. The project is developed in the Django framework. It encourages rapid development and clean, pragmatic design. The backend consists of Python, Django, SQLite and Jinja2. Built by experienced developers, it takes care of much of the hassle of Web development, so we can focus on writing our app without needing to reinvent the wheel. The front end of the project has been made user-friendly with efficient use of HTML, CSS and JavaScript. The back end has been coded in Python Programming Language. We easily achieve more functions with fewer lines of code using Python. Web development with Python is very popular because of its readability and efficiency. Python is used for the development process taking the security issues in concern. Python is more secure than several widely used programming languages. The web application is very user-friendly and easy to operate. This project will help skilled peoples a lot in their day-to-day life.

II.   LITERATURE SURVEY

We analyzed the existing system for finding jobs and hiring workers as well as web development using Django

A) Web applications to find jobs
1) LinkedIn is an American business and employment-oriented online service that operates via websites and mobile apps. Launched on May 5, 2003 it is mainly used for professional networking, including employers posting jobs and job seekers posting their CVs. As of 2015, most of the company's revenue came from selling access to information about its members to recruiters and sales professionals. Since December 2016, it has been a wholly owned subsidiary of Microsoft. As of May 2020, LinkedIn had 706 million registered members in 150 countries. LinkedIn allows members (both workers and employers) to create profiles and "connections" to each other in an online social network which may represent real-world professional relationships. Members can invite anyone (whether an existing member or not) to become a "connection".
2) Monster.com is a global employment website owned and operated by Monster Worldwide, Inc. It was created in 1999 through the merger of The Monster Board (TMB) and Online Career Centre (OCC). It is a subsidiary of Randstad Holding, a Dutch multinational human resource consulting firm, and is headquartered in Weston, Massachusetts.

B) Web development using Django
People use different types of devices to connect to the internet and browse the Web. Because of this, applications need to be accessible from a variety of locations. For traditional websites, having a responsive UI is usually enough, but more complex applications often require the use of other techniques and architectures. These include having separate REST back-end and front-end applications that can be implemented as client-side web applications, Progressive Web Apps (PWAs), or native mobile apps. Some tools that you can use when building more complex applications include:

- Django, a free and open-source Python web framework that follows the model view controller (MVC) software architectural pattern.
- Django REST framework, a powerful and flexible toolkit for building REST APIs in Django.

III.   MOTIVATION

Unemployment is one of the major problems in our society. Although having good skills in various fields they are unable to find work. The aim of our project is to provide a platform for connecting the people who are searching for work and who are searching a skilled worker. The objective to select this as our project topic is enable the skilled people to find the job, so in some extent the unemployment in the society will be going to reduce

CONCLUSION

Web application to empower skilled people as the study found out will be useful to skilled people to find the work. It can be concluded that the web application will be very helpful to skilled workers in their life as it provides platform to update their skills so that people who wants such skilled manpower can contact them. Also, Django is one of the best frameworks for easy and rapid web development.

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