

LinkedUD The Modern Way to Find a Job

S. Garcia¹ and D. Hernandez²

¹Bogota, Cundinamarca, Colombia, ²Universidad Distrital Francisco Jose de Caldas

ABSTRACT

With LinkedUD, job seekers can now find employment opportunities on a scalable and effective platform, marking a revolutionary approach to the process. LinkedUD was created in response to rising unemployment rates and the difficulties encountered by job searchers. It provides a number of features that make the job search process more efficient. Users are able to manage applicants, create job listings, apply to different jobs, and create candidate or employer profiles. By centralizing job openings according to professional specialties and geographical areas, the application seeks to lessen the negative effects of unemployment by allowing users to efficiently and rapidly filter job offers. LinkedUD uses cutting-edge search features and user-friendly interfaces to streamline the job search process. LinkedUD enables smooth communication and interaction between hiring managers and candidates by cultivating deep connections between the two parties. System analysis, design, backend and frontend development, database schema implementation, unit testing, launch and maintenance strategies were all part of the methodical approach used in the development of LinkedUD. With LinkedUD's successful launch, job search platforms have made tremendous progress and users now have a comprehensive answer to the problems with conventional job searching techniques.

INTRODUCTION

LinkedUD is a visionary response to the mounting challenges that we could see on the escalating unemployment rates and the various difficulties to search for a job. We started this application in order to do something good about these job problems, we wanted to make a difference in this ambit, trying to give people an easier way to find job and to offer their multiple functionalities, professions and potential, so they can be recognized properly in the job that they have applied to. Recognizing the urgent need for a solution that transcends conventional job search paradigms. LinkedUD is committed to making sure everyone has a fair shot at finding a job, no matter who they are or where they come from. We believe everyone deserves a chance to reach their goals and make a difference in the world.

METHODS

We had to do a lot of research and planning to create the methods for our ap-

plication, in the first place we had to look through the problem of unemployment, and how our application could solve it. Once we were sure what we wanted to do, then we proceed to plan it, we focused on creating multiple types of diagrams so we could know all the requirements, classes, functionalities, users and the various process that LinkedUD had to do to act properly. There were built deployment diagrams to define our backend and frontend, activity diagrams to define the logic of our algorithms, sequence diagrams to understand the process in the application and state diagrams were we could see all the different states that the classes of the app would need to let them use it properly.

EXPERIMENTS

The development process of LinkedUD began with a comprehensive system analysis and design phase, where user stories, project requirements, and potential user interfaces were outlined. This phase was crucial in defining the classes, objects, and methods necessary to achieve the project's objectives, as well as establishing business rules and expected outcomes. Subsequently, backend and frontend development commenced, focusing on implementing the business logic and graphical interfaces, respectively. A small database schema was also created to store relevant information about classes and objects. Unit tests were performed using Python and its "faker" library to validate the functionality of each method against expected results. Upon successful completion of unit tests, LinkedUD was launched for end users, with ongoing support and maintenance to address any encountered errors. This meticulous programming methodology ensured the creation of a robust and user-friendly application tailored to meet the needs of job seekers and employers alike.

CONCLUSION

To sum up, this application aims to satisfy the needs of a sizable user base that consists of people looking to apply for new jobs or modify their current employment. As a result, an issue with the project's scalability and the volume of users actively using our system at the same time could occur. In addition to helping us select the best tools for frontend, backend, and database management system development, graphical schemes are essential for helping us understand the limitations of our program and preventing the concurrent user access issues that have been mentioned as potentially causing issues with data integrity, atomicity, and concurrency.