

END-OF-STUDY PROJECT REPORT

Submitted in Partial Fulfillment of the Requirements for the
BACHELOR DEGREE IN SOFTWARE ENGINEERING AND INFORMATION
SYSTEMS

Field of Study : Software Engineering and Information Systems

Development of an Employment Services Web Platform

By
ISLEM BARGAOU
YUSSEF MRABET

Conducted within ...

Code
Cooperation

Academic Year: 2021-2022

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Dedications

To my family **Mounir Bargaoui** and **Sawcen Ben Khayatia**,
thank you for your unwavering support and encouragement throughout
my academic journey. Your belief in me has been the foundation upon
which I have built my success, and I am forever grateful for your love and
guidance,

I would like to express my gratitude to my friends for their unwavering
support and encouragement. Your constant inspiration and motivation
have been instrumental in my academic journey, and I am thankful for
your presence in my life. .

Islem Bargaoui

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Yussef Mrabet

To our Supervisor, **Dr. Fahima Ben Guirat**, For believing in us and
helping us finish our end of studies project, you have our most grateful
thanks.

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General introduction

In today's fast-paced and competitive world, finding employment can be a challenging and daunting task. While job boards and employment agencies exist, they may not always provide the best fit for job seekers or employers.

To address this issue, we present TippJob, a platform that connects individuals or businesses offering jobs with those seeking employment opportunities. TippJob offers a simple and efficient way to post job offers, whether it's for a full-time position or a one-time task, such as mowing a lawn. By creating a user-friendly interface, TippJob aims to make the job search process easier and more accessible for all users.

Our end-of-studies project provides an opportunity to develop this platform further and improve the user experience. Throughout this report, we will discuss the context of the project, the requirements specifications, and the implementation process of TippJob.

During our internship at Code Cooperation, we have followed the scrum Methodology to better organize our work and development, thus making our report consist of these following chapters:

- **"Context of the project"**, The initial chapter will serve as an introductory study and provide the project's contextual background.
- **"Requirements Specification"**, The second chapter of this report will be dedicated to outlining the project requirements, which is considered the first and most significant step in our development process. We will provide a detailed description of these requirements.
- **"Infrastructure Environment Setup"**, the third chapter will present the set up of the deployment and the beginning steps of the development of TippJob.
- **"Release 1: User Profile Management"**, This first release aims to provide users with an intuitive and seamless experience when creating and managing their profiles, enabling them to maintain control over their data..
- **"Release 2: Payment Integration and Job Posts"**, the second release adds payment integration and job posting features, improving the platform's user-friendliness and value.
- **"Release 3: Enhanced User Experience"**, The third and final release will introduce new search filters and messaging functionalities, designed to enhance user interactions and facilitate communication among users.

Chapter 1

Context of the project

1.1 Introduction

This chapter provides an overview of the host organization, details the project developed, outlines the technology choices made, and explains the methodology followed.

1.2 Presentation of the host organization

1.2.1 Host organization:

Code Cooperation is a startup builder and software development agency co-founded by Mr Taib Ben Dai as a CTO and Mr Mutas Bezari as a CEO. Their mission is to help startups bring their ideas to life through the development and deployment of web and mobile applications. Code Cooperation has worked with notable clients such as GIZ and TRANSLATLY.

What sets Code Cooperation apart from other agencies is their commitment to long-term partnerships with startups. They are interested in becoming a founding partner of the client's startup and being paid by equity, rather than short-term earnings. Code Cooperation's main idea is to offer startups of different stages a scalable CTO and/or development support, ranging from building a complete application to separate modules, components, and/or features. They charge only their low self-costs for this work, demonstrating their dedication to the success of their clients.



Figure 1.1: Company Logo

1.2.2 Areas of activity

The company specializes in providing solutions for businesses and startups, drawing upon their expertise in three primary sectors: software engineering, technical assistance, and consulting. Some examples of their solutions include:

- Ilio Music
- Translatly
- seniorenplatzfinder
- relokatehr

1.3 Project presentation

1.3.1 Project framework

In today's fast-paced world, finding and offering job opportunities can be a time-consuming and challenging process. To address this issue, we developed Tippjob, a platform that connects job seekers and employers in a simple and efficient way. The platform provides a user-friendly interface for job posting, browsing, and applying.

1.3.2 Study of the existing

There are already several online job platforms available to the public, such as LinkedIn, Glassdoor, and Indeed. However, these platforms have their limitations and drawbacks that may cause inconvenience to job seekers, employers, and recruiters. Some of these limitations include:

- Traditional job platforms typically focus on full-time, long-term positions, while neglecting short-term, one-off, or part-time job opportunities.
- Limitation to certain industries or job types, making the user's choices narrow for a wider range of job offers.
- Candidates have to go through a lengthy application and screening process, which may not be necessary or practical for one-time or short-term jobs.
- Focusing on connecting candidates with employers, and missing the ability for individuals to post job offers for services they need (e.g. lawn mowing, pet care, etc.).
- Requirement for job seekers to have an established professional profile or resume, which could be a barrier for individuals who are just starting out or looking for casual work.

1.3.3 Proposed solution

With the increasing demand for job opportunities and the limitations of current job posting platforms, TippJob offers a comprehensive solution that connects job seekers and job providers in an easy-to-use platform. Using cutting-edge technologies and an intuitive interface, TippJob offers the following features:

- Seamless job posting and search functionalities for both employers and job seekers.
- Having a wide range of job types, from short-term to one-off, limited only by the user's imagination.
- The ability be more general about industries and cover a wider range of job offers.
- The posting and application process is streamlined to be quick and easy.
- This solution is not limited to connecting candidates with employers but could also allow individuals to post job offers for services they need (e.g. lawn mowing, pet care, etc.).

1.4 Conclusion

This chapter outlines the overall framework of the internship program, and serves as a segue to the subsequent phase of needs specification and planning.