**

## Building a Student Internship and Job Opportunity Platform using Flask

# group k flask Project report

### Version <1.0>

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**COURSE CODE & NAME:** BSE2301 SOFTWARE ENGINEERING MINI PROJECT 2

**GROUP:** K

**SUPERVISOR:** Dr. RUTH MBABAZI

**GitHub Link: https://github.com/Leelyhane/Group-K-Flask-Project**

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# Part 1: Project Closure

## INTRODUCTION

In today's competitive job market, students often struggle to find relevant internship and job opportunities. This project aims to bridge this gap by developing a user-friendly platform that connects students with various internship and job listings. The platform enables students to submit their resumes and view available internship and job opportunities, making their internship and job search process more efficient and targeted.

## PURPOSE OF THE PROJECT

This report presents the development of Career Bridge, a web application aimed at connecting students with internship and job opportunities. The platform allows students to submit their resumes and view a curated list of available job listings. The application was built using the Flask web framework, providing a user-friendly interface and efficient data handling. This report outlines the project's objectives, the technology stack used, the development process, and key features of the final application..

## OBJECTIVES

* **Connect Students with Opportunities:** The primary objective of this project is to create a platform that seamlessly connects students with relevant internship and job opportunities. By providing a centralized hub for job listings, students can easily discover positions that match their skills and interests.
* **Efficient Job Search:** The platform aims to streamline the job search process for students. They can search for opportunities based on various filters such as industry, location, job type, and more. This helps students narrow down their search and find opportunities that align with their preferences.
* **Resume Submission:** Enabling students to submit their resumes directly through the platform eliminates the need for redundant data entry when applying for multiple positions. This feature enhances efficiency and simplifies the application process.
* **User-friendly Interface:** The project strives to create an intuitive and user-friendly interface. The design focuses on providing easy navigation, clear information display, and a seamless user experience for both job seekers and employers.
* **Personalized Experience:** The platform aims to provide a personalized experience for each user. Through features like user profiles and recommended job listings, the project seeks to tailor the platform to individual preferences and career goals.
* **Security and Privacy:** Ensuring the security of user data and maintaining their privacy is a fundamental objective. The project aims to implement robust security measures to protect user information, including encryption and secure authentication methods.

By achieving these objectives, the Student Internship and Job Opportunity Platform will provide students with a powerful tool to navigate their career paths, while also benefiting employers by connecting them with a pool of talented and motivated individuals.

## Overview

This report presents the development of Career Bridge, a web application aimed at connecting students with internship and job opportunities. The platform allows students to submit their resumes and view a curated list of available job listings. The application was built using the Flask web framework, providing a user-friendly interface and efficient data handling. This report outlines the project's objectives, the technology stack used, the development process, and key features of the final application.

**TECHNOLOGY STACK**

Career Bridge was built using the following technology stack:

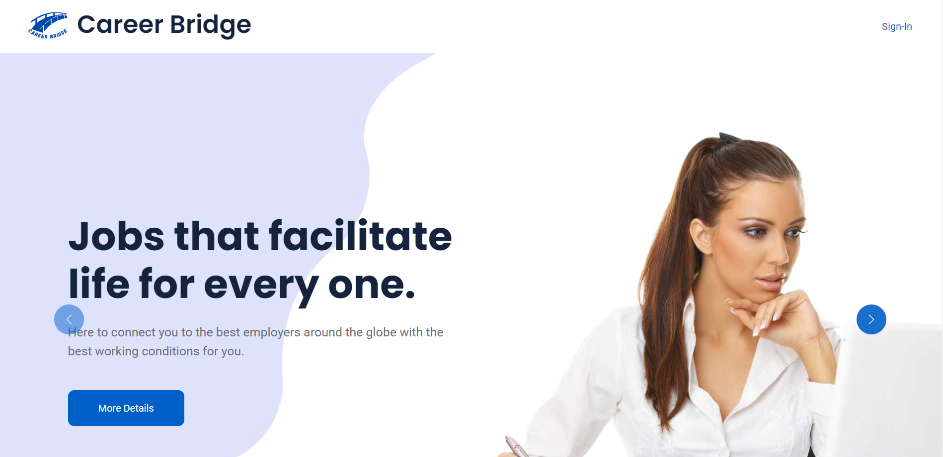
1. **Python**: The primary programming language for backend development.
2. **Flask**: A lightweight and flexible web framework for python.
3. **SQLite**: A relational database management system used to store user data, internship listings, job listings and resumes.
4. **HTML/CSS**: For front-end user interface design and styling.
5. **JavaScript:** To enhance user interactivity and to provide dynamic features.

# Part 2: system overview

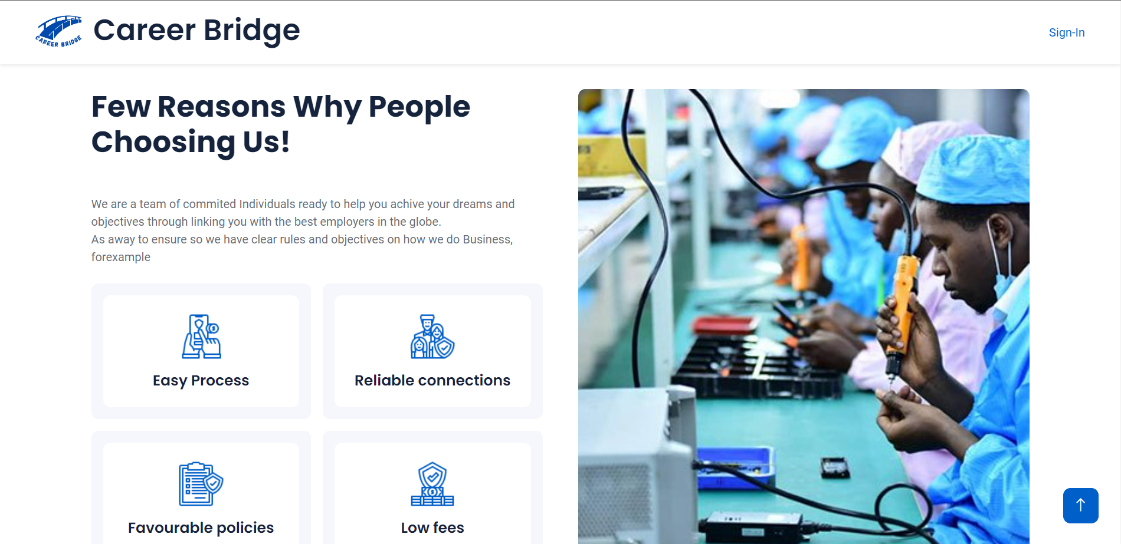
## landing page

It grabs users’ attention and guides them towards a specific conversion goal, which in this case is to get job and internship opportunities.

Here users are able to know more details about the website and take a desired action such as signing up

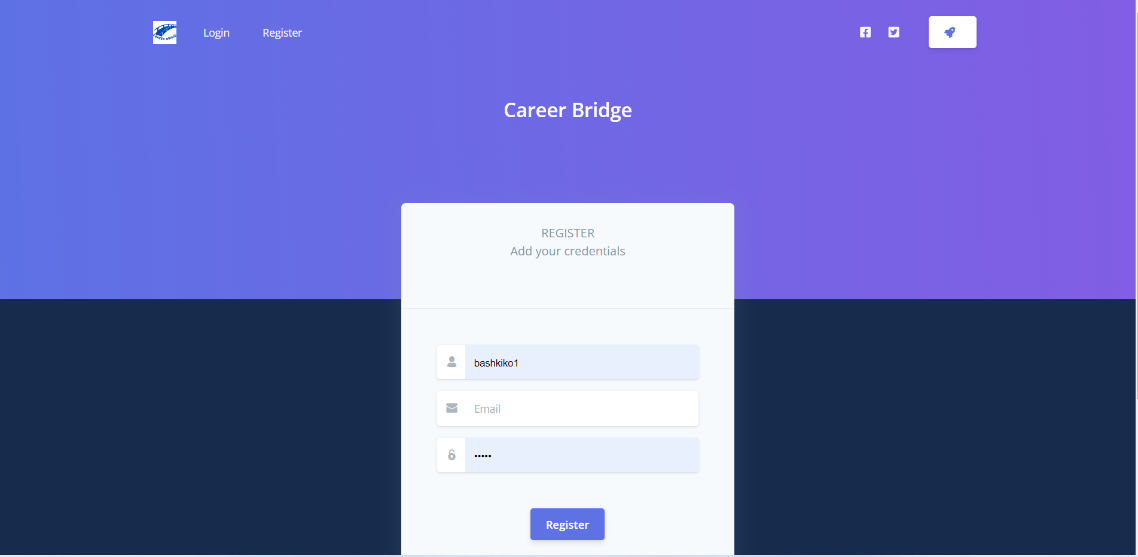


Landing page 1



## register page

This is where new users can create accounts to access features and content of the Career Bridge website. It is a crucial component for user authentication and interaction. The required fields are a username, an email address and a password and a user is expected to input a valid email address or else they cannot proceed with registration.

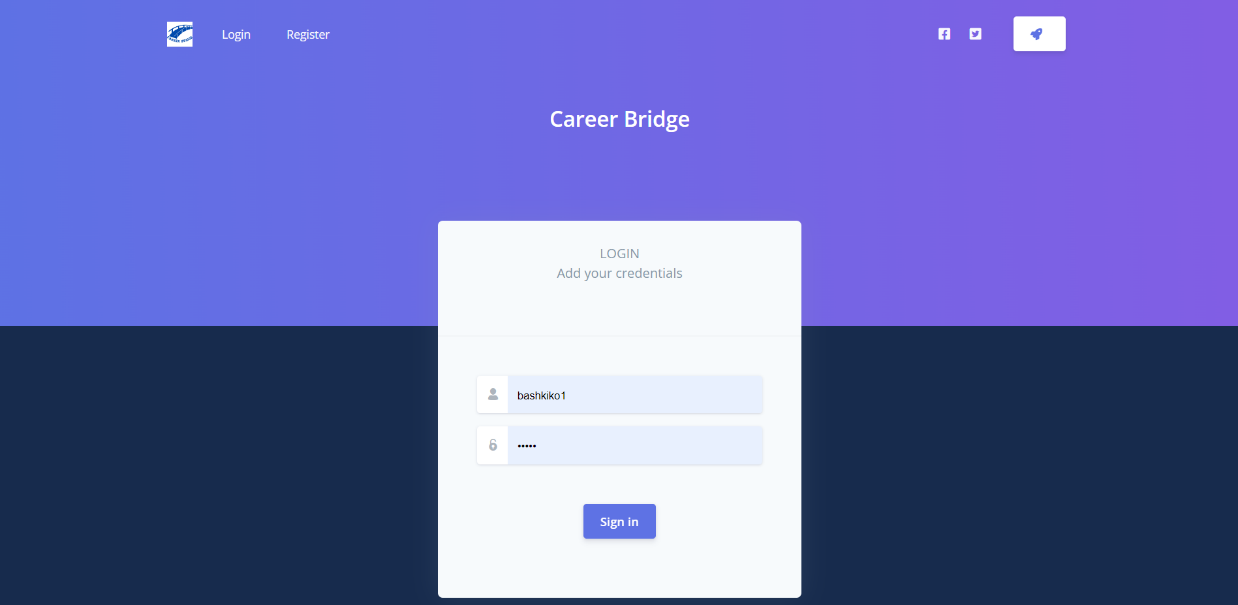


Registration page

## login page

This is a vital entry point where existing users such as students and administrators can access their accounts by simply providing their credentials. The core components are the fields where users enter their username and password.

In a case where a user inputs a wrong password, they are notified to input a right password since their usernames are usually remembered by the site.

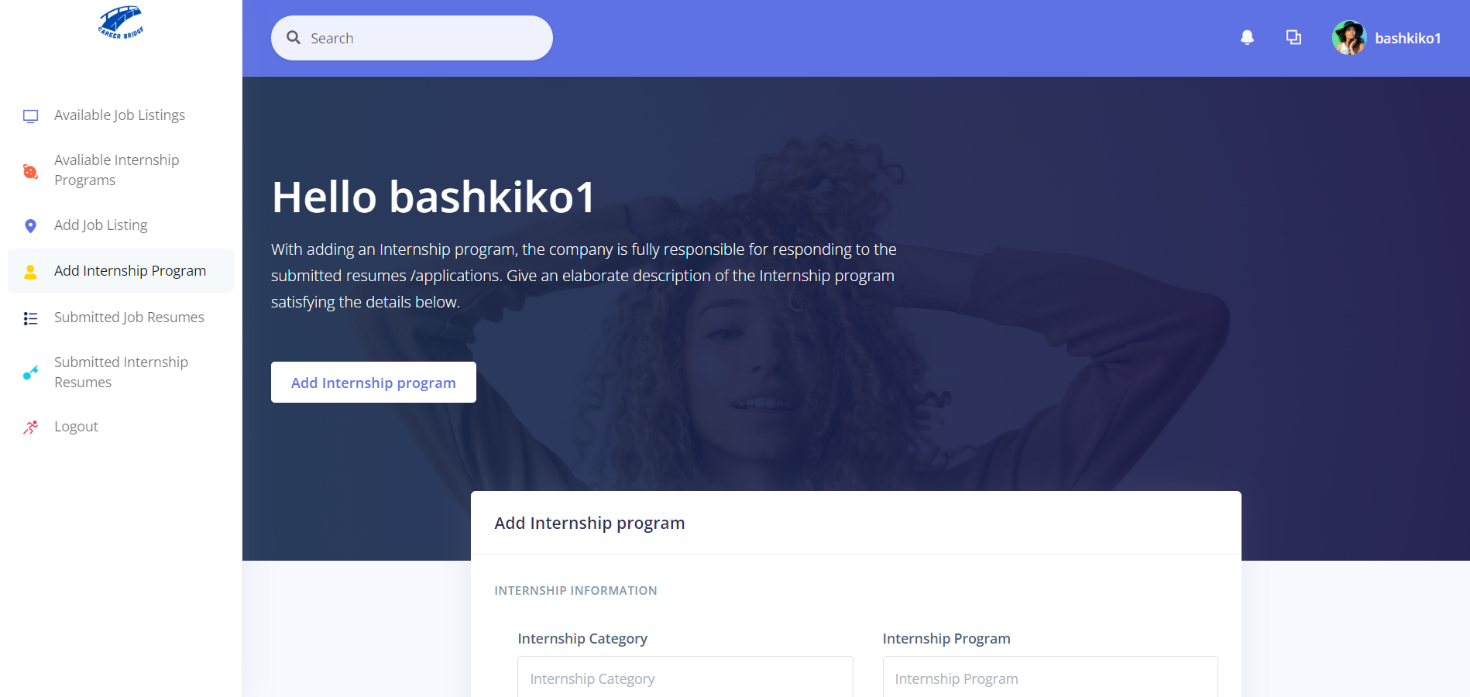


Login page

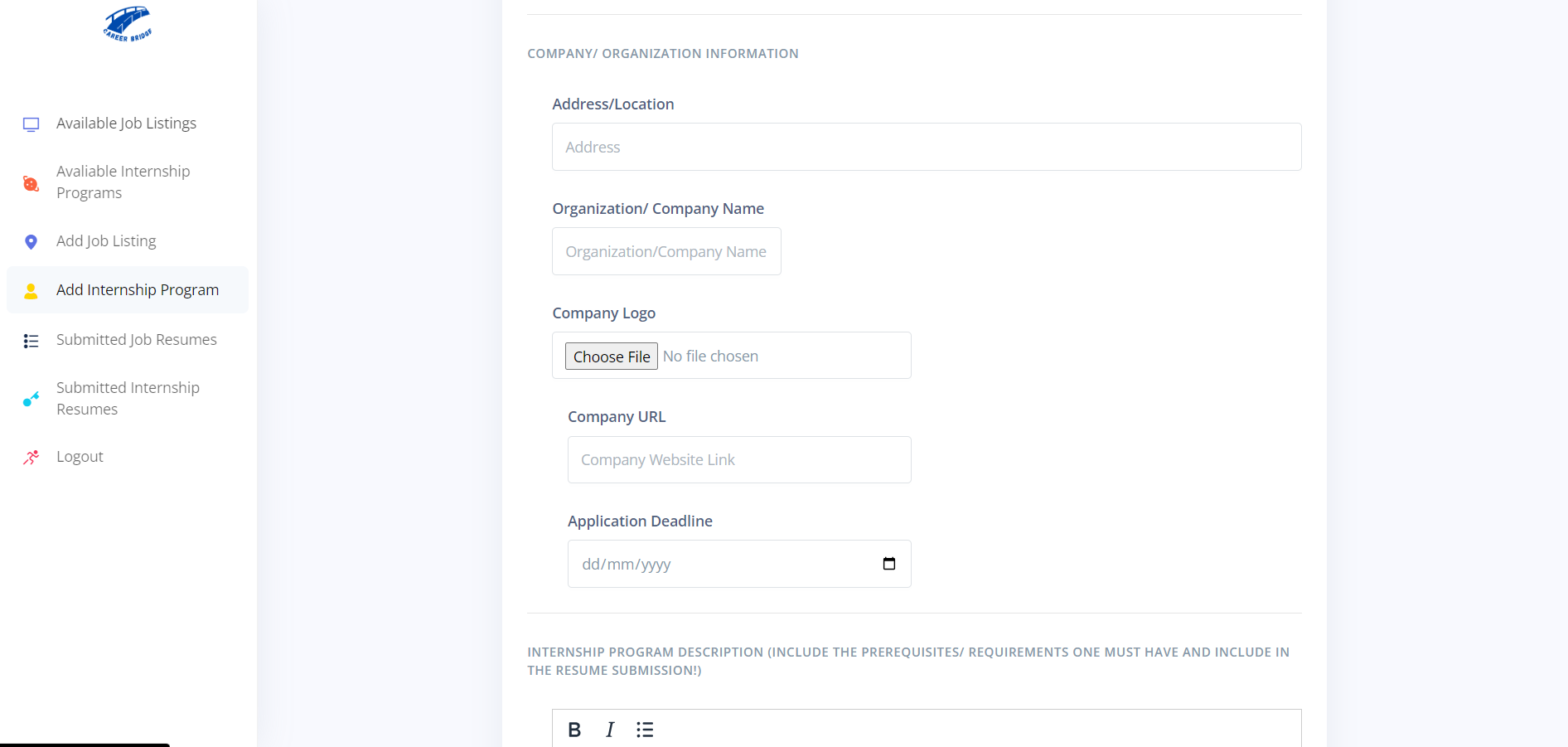
## add job and internship listings

These pages allow administrators to add new jobs or internships listings to be displayed on the website for potential candidates to view and apply.

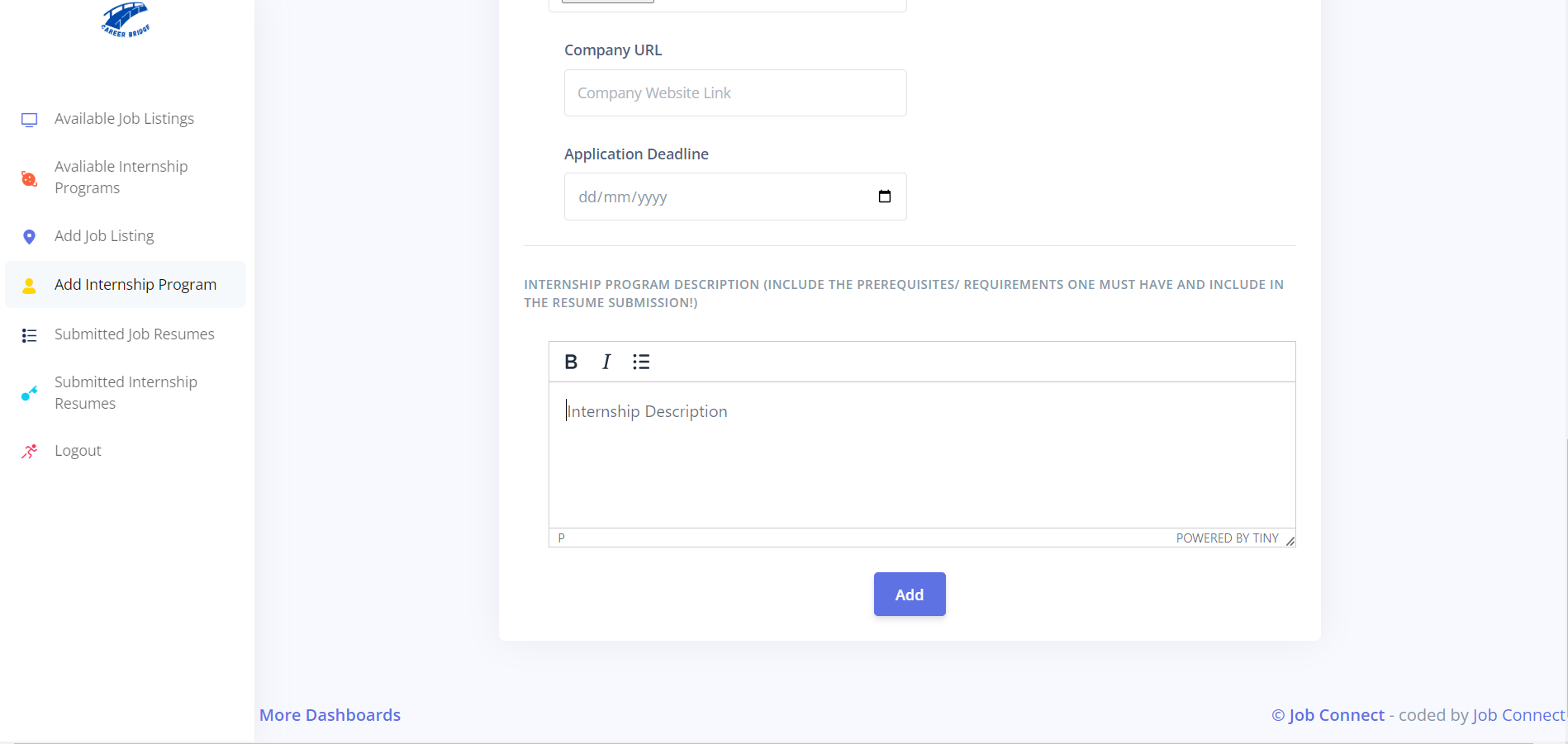
The platform provides a curated list of internship and job opportunities from various industries. Users can filter and search for listings based on their preferences.



Add internship 1



Add internship 2



Add internship 3

## resume submission

Students can upload their resumes during time of application allowing them to easily apply for job opportunities without the need for repetitive data entry.

## AVAILABLE JOBS

# Part 3: Development process

## DATABASE DESIGN

## CONCLUSION

The development of Career Bridge using Flask successfully addressed the challenge of connecting students with relevant internship and job opportunities. The platform's user-friendly interface, resume submission feature, and internship and job listing curation enhance the overall job and internship search experience for students. The project highlights the power of Flask as a framework for building efficient and scalable web applications. Further enhancements could include integrating machine learning algorithms for personalized job recommendations and expanding the platform's reach to include more industries and regions.e more industries and regions.