CSCI 1300 Capstone Project: Ladder Iterative Design

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Abstract

In this project, we have taken an early-stage startup idea from the 2020 YCombinator's Demo Day and iteratively designed a web interface strictly based on the concept. The startup company we picked, Ladder, is a construction-based labor marketplace that seeks to connect employees and employers in order to provide long-term employment.

The process we undertook for iterative design went as follows: (1) Creating basic sketches, (2) Combining the ideas from the sketches into a low-fidelity wireframe, (3) Incorporating visual design elements to form a high-fidelity prototype, (4) Undergoing critique and feedback in order to improve upon the high-fidelity prototype, and (5) Performing user testing to evaluate user experience of our interface. The aforementioned process is outlined in the following project writeup: https://fathomless-castle-93898.herokuapp.com.

After receiving feedback from several users and the co-founder of the real Ladder startup, we have created and deployed a functional web application based on our design: https://protected-bastion-57623.herokuapp.com. Our application was created using a React frontend and a Node.js backend, along with a PostgreSQL database. Additionally, it includes many features such as user authentication, search functionality, individualized accounts and profiles, and responsive design.

Faculty-sponsor: Jeff Huang, jeff_huang@brown.edu
Images

The remaining pages consist of screenshots of select sections of the finished website.

Ladder

Find Employees
See Who's Hiring

Search Results

Michelle James
Construction Worker
East Providence, RI

Travis McDonough
Electrician
Warwick, RI

Dev Ramesh
Construction Worker
Providence, RI

Thomas Smith
Electrician
Warwick, RI

Jane Doe

Michelle James
Construction Worker

About: I am a construction worker looking for long-term employment in Rhode Island.

Qualifications: I have worked in construction for 7 years in temporary positions in the Providence and Boston areas.
Providence Electric, Inc.: Industrial Electrician

Description:
Electrician; make general electrical repairs in industrial settings. Serves Providence and surrounding areas.

Qualifications:
Experience with industrial electrical work. Willing to travel up to an hour outside of Providence for certain jobs.

About:
Providence Electric is one of the top providers of electrical repairs and services in Rhode Island. We provide both industrial and residential electrician services. We are currently looking to hire 5-10 more employees as we look to expand into surrounding areas.

Logistics:
We are located in East Providence. Please use the "contact" link in our profile to reach out to us.

Location:
Providence Electric, Inc.

About:
Providence Electric is one of the top providers of electrical repairs and services in Rhode Island. We provide both industrial and residential electrical services. We are currently looking to hire 5-10 more employees as we look to expand into surrounding areas.

Logistics:

Industrial Electrician
Providence Electric, Inc.
Providence, RI

Residential Electrician
Providence Electric, Inc.
Providence, RI

Description:
Electrician; make general electrical repairs in industrial settings. Serves Providence and surrounding areas.

Qualifications:
Create a Job

Job Title
Industrial Electrician

Job Image URL
https://www.emeraldview.com/wp-content/uploads/2022/08/bigstock-Province-

Job Description
Electrician; make general electrical repairs in industrial settings. Serves Providence and surrounding areas.

Job Qualifications
Experience with industrial electrical work. Willing to travel up to one hour outside of Providence for certain jobs.