

# AdaCodes

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# Description

Our group built a web application that helps mothers manage their tech industry/software job search. We have two working mothers in our group, and they wisely suggested we enhance our project's focus by catering our web application to mothers re-entering the workforce after being full-time caregivers to their children. Our project aims to give this often-overlooked labor demographic the tools they need to overcome unique barriers to success, such as lacking current skills or having trouble finding positions that are family- hospitable.



# Features

- Appealing, informational landing page
- Authentication/Authorization
  - Users can create an account; account information is saved persistently using MySQL.
  - Users can subsequently log in and out with full authentication using hashcoded passwords and access pages restricted to logged-in users once they are logged in.
- Once logged in, users can set up their job search preferences, which are saved to their account using object-relational mapping.
- While logged in, users can view relevant job opportunities from Indeed.com using the job site's API and save interesting job listings to a "saved jobs" list.
- Logged in users can access educational resources relevant to their career goals.
- Users can see their saved jobs and relevant resources at-a-glance on their custom homepage dashboard
- All search preferences and saved jobs will be persistently tied to their account, are editable, and are viewable on their homepage dashboard when they are logged in.



# Planning - User Stories

- Authentication/Authorization
  - As a user, I want to be able to create a secure username and password and once logged in, stay logged in across all pages of the website and be able to access restricted pages and features that logged-out users cannot so the website I'm using feels secure.
  - As a user, I want to be able to log in and out even after I have closed and reopened my browser so I can use this website's features over long periods of time without worrying that my data will disappear.
  - As a user, I want to be presented with clear error messages when I enter incorrect login details so that I understand what I need to correct in my username/password.
  - As a user, I want to be able to add personal details to my account so my experience feels personalized.
- Homepage (My Dashboard)
  - As a user, I want to be able to see important information connected to my user account at a glance once I am signed in.
- Job Search
  - As a user, I want to be able to keep track of my employment preferences and details so that I can be reminded of my professional goals
  - As a user, I want to be able to search for job opportunities without leaving the website so I can save time.



# Planning - Database

Our project utilized the MySQL database manager to keep track of multiple tables that interact via MySQL joined tables with Java Spring Boot object-relational mapping.

- Tables
  - user
  - Search\_preferences
  - saved\_jobs
  - User\_search\_preferences\_saved\_jobs



# Technology Stack

- Language: Java
- Framework: Spring Boot
- Template engine: Thymeleaf Templates
- Database engine: MySQL
- Other libraries or components: Hibernate, Bootstrap CSS Templates, Indeed API



**Demo** (will be provided upon request)



# What I Learned

- Working with public data from Indeed API
- User authentication/authorization with hashcoded passwords and restricted pages
- Creating user homepage dashboard that pulls data from multiple MySQL sources and stays updated.





# What's Next

- Add CSS styling to improve presentation
- Indeed API bug fixes and tie-in to user search preferences
- Create forgot username/password system so that users can still access their account if they forget those credentials

