

## Interactive Dashboard

### Dashualize Documents

(based on New Mexico DoIT testing documents)

#### Team 2

Michael Alarcon

John DeBrouse

Neal Desai

Linh Huynh

Julia Versinina

David Zitek

Syed Quadri

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# 1 Introduction - Systems Administration Manual

A System Administration Manual serves the purpose of an Operations Manual in distributed (client/server) applications.

This manual is made with the purpose of providing a guided description on the use of the Dashualize application meant for users that need streamlined data pertaining to Data Scientist jobs.

## 2 SYSTEM OVERVIEW

<http://dashualize.x10host.com/>

### Admin Account

**Username:** team2

**Password:** team2pw

### Testing Human Resource Account

**Username:** hr1

**Password:** hrtest

### Testing Management Account

**Username:** management1

**Password:** mtest

### Testing Workforce Planner Account

**Username:** wp1

**Password:** wptest

### Testing Job Seeker Account

**Username:** jobseeker1

**Password:** jobseeker

### 1.1 System Application

Dashualize is a website application designed to serve individuals that wish to obtain information pertaining to the field of Data Scientist. A user can look into the jobs of Artificial Intelligence, Deep Learning, and Machine Learning and get information surrounding those jobs such as skills needed or where the jobs are located.

## **1.2 Information Inventory**

This section provides information about data files that are produced or referenced by the system.

### **Resource Inventory**

Scraping Data Final.xlsx

scraper.py

## **1.3 Communications Overview**

This section describes the communications functions and process of the system.

## **1.4 Security**

To ensure the integrity of the site, job seeker users will have to create an account completed with a username and password. Corporate profiles such as Human Resource, Management, and Workforce Planners will have their profiles created by the sites administrator, IT team, after requesting an account.

# **2 SITE PROFILE**

This section contains information pertaining to the site where the application is running. That information includes the information contained in the subsequent sections.

## **2.1 Site Location**

<http://dashualize.x10host.com>

## **2.2 Primary Site**

IT Team

# **3 SYSTEMS ADMINISTRATION**

This section introduces the responsibilities of the System Administrator.

## **3.1 User Accounts**

This section introduces topics related to system users.

## **Adding/Deleting Users**

The Application's IT Team gives corporate employees access to the website and must make the distinction between Human Resource, Management, and Workforce Planners. Job seekers can register themselves and can delete their accounts. Corporate users will have to submit an Account Deletion request to have their account deleted.

## **Setting User Permissions**

Job seekers, Human Resource, Management, and Workforce Planners have different needs and therefore certain restrictions will be applied to each role upon registration. Four dashboards exist within the website and all serve a distinct purpose suited specifically for these four positions.

## **Setting User Roles/Responsibilities**

Job seekers will be granted the view of a dashboard that demonstrates job distribution, salary ranges, skills, cost of living, and job boards. Workforce Planners get a dashboard with only tech and soft skills as a spreadsheet since their needs are mostly geared towards workforce training. Human Resource will get a similar dashboard to job seekers but without a pay range chart since they do not decide the pay. Management will have a dashboard that includes pay average and national averages as well as filtering options to narrow down to a location but no need for job board information.

## **3.2 System Backup Procedures**

This section describes procedures for regularly scheduled backups of the entire network, including csv data storage.

### **Maintenance Schedule (Daily or Weekly)**

The scraping software is designed to automatically update the excel spreadsheet data used by the dashboards after it is run. Recommendation is to run the scraper no more than once per week to avoid being flagged by the job boards as scraping job data creates a heavily load on their servers. They would also have to manually scrape for data about the salary and cost of living to add to the spreadsheet.

## **3.3 System Maintenance**

This section discusses procedures for maintaining the spreadsheet file system.

## **Installing Programs and Operating System Updates**

The IT team should run the scraper to ensure that the information displayed on the Dashboards is current. Once the scraper runs it will automatically update the spreadsheet which in turn updates the Dashboards managed on Tableau.

## **Maintenance Reports**

To maintain accurate information the IT team must run the scraping program at least once a month, and not more than once per week.

### **3.4 Documentation**

An updated spreadsheet is required to ensure the reliability of the application, the IT team should follow the instructions given in the System Maintenance section of this manual.

### **3.5 Application Maintenance**

#### **Application User**

Application is simple to access by job seekers as what they can access is hard coded into the website. Corporate users such as Human Resource, Management, and Workforce Planners will be given access by site administrators to ensure security integrity.

#### **Adding/Deleting Application users**

Job seekers are given the option to create and delete their own accounts. To create an account a job seeker has to provide his first/last name, email, and come up with a unique username, as well as password. To delete the account, find the menu drop down on the upper right corner of the website and click on the Account option. There you'll find the Delete Account option next to a trash can icon where the account is deleted. Corporate employees have to request for access through a form on the website where their information will be verified by the Application IT Team to approve access. To delete their account, they can find the Delete Account form by hovering over Account at the top right corner. Upon submission, the IT team will review the request and process the deletion.

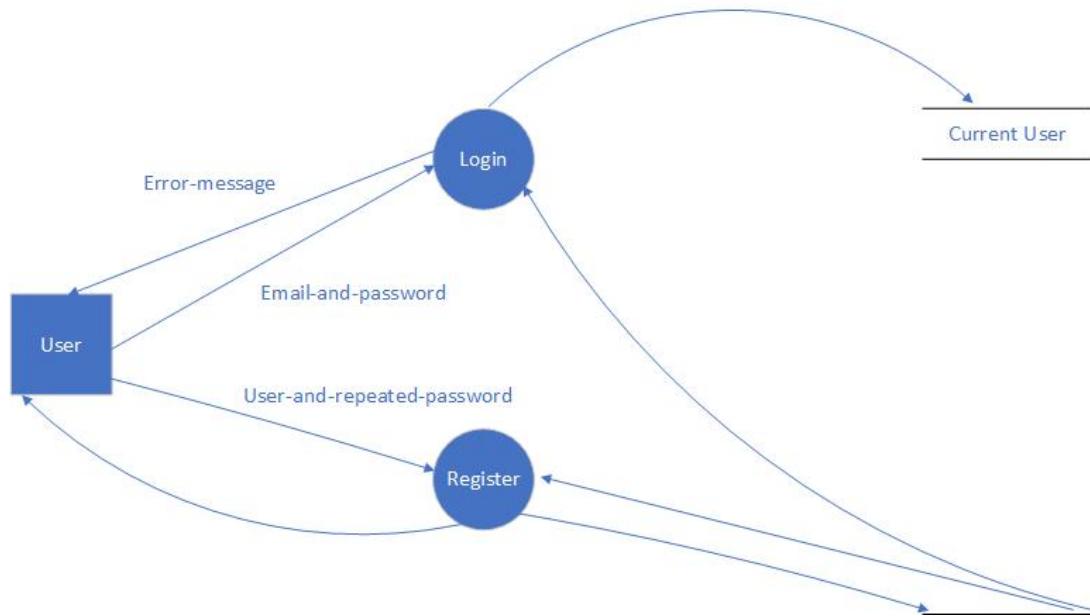
#### **Setting User Application Permissions**

The system administrator is responsible for creating and deleting corporate accounts. Corporate role determines the dashboard that a user can obtain.

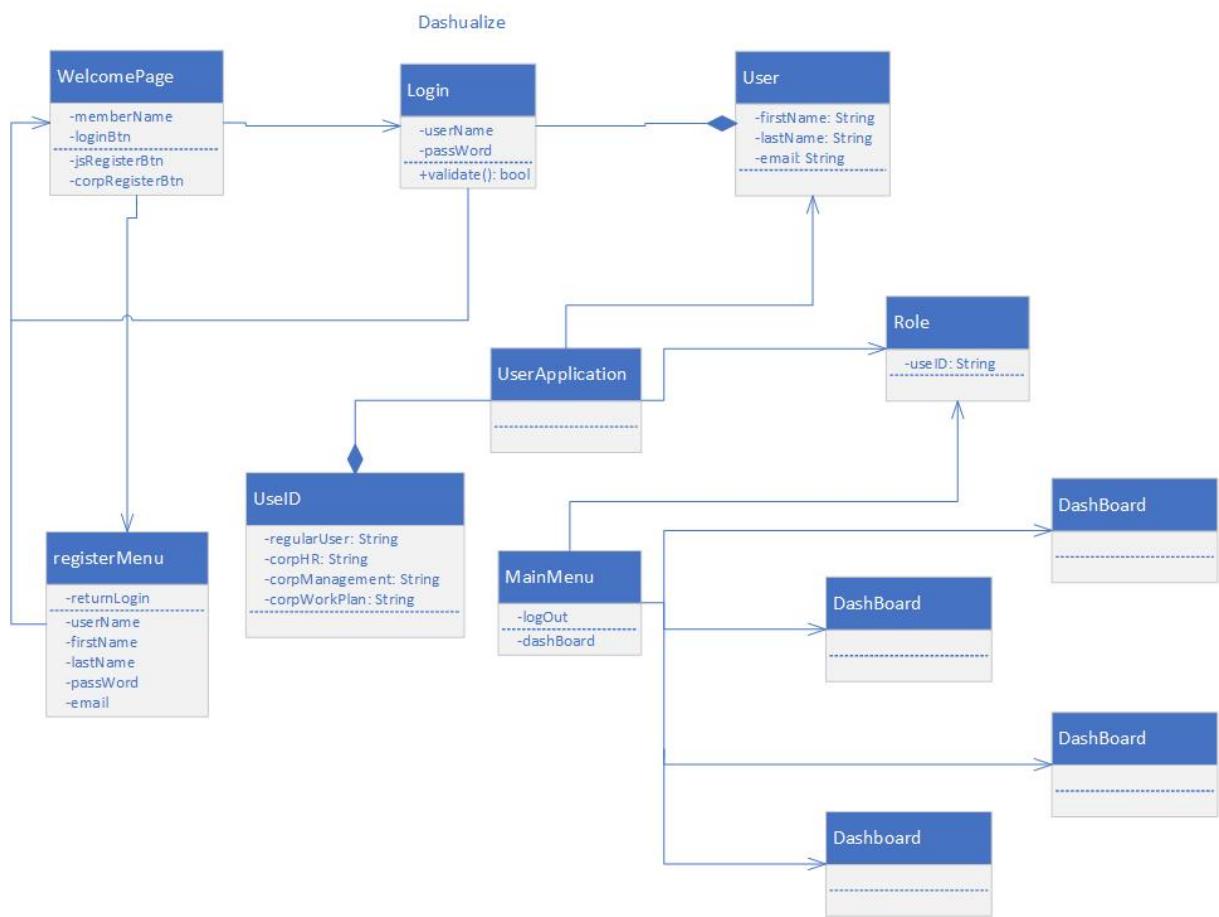
## Procedures to Start and Stop the Application

The application is available through the internet, therefore, to shut it down one just needs to close their browser.

## Application Flow Chart



## Description of Major Program or Sub-program Modules



# **1 INTRODUCTION - Requirements Analysis**

## **1.1 Purpose of the System**

Data Science is a relatively new, yet rapidly expanding field. Companies and job seekers need help in understanding what skills are needed to fill the Data Science related positions. While it is possible to manually browse job listings through existing job board websites, a more efficient way to collect and analyze data to better understand specific skills is needed for Data Science jobs. We believe that user experience and an overall understanding of Data Science skills would be improved with the implementation of an Interactive Dashboard that allows a display and filtering application of data collected from job board websites.

## **1.2 Scope of the System**

An Interactive Dashboard will allow both corporations and job seekers to preview and analyze technical and soft skills needed to fill a Data Science job. The focus will be on the following job descriptions: "Artificial Intelligence", "Deep Learning", and "Machine Learning". We will look for workers in these areas who are generally scientists, programmers, or researchers. The capture and delivery of data relevant to these three descriptions will be automated and will specifically be centered on following data:

- Technology skills (python, neural network, etc.)
- Soft skills (project management, presentation, etc.)
- Locations (Chicago, Dallas, New York, Boston, D.C., etc.)
- Pay range (entry, skilled, expert)
- Job Boards used (Indeed, CareerBuilder, Glassdoor, and Census Bureau)

The new system will recognize four user types, some of which have similar intent: Human Resource, Management, Workforce Planning, and Job Seekers. All users will be able to login and interact with the data in an engaging manner.

## **1.3 Objectives and Success Criteria of the Project**

The main objectives of the new system is to help people understand what skills are important for Data Scientist jobs. This application will be useful to people engaged in workforce planning, that need to see what new skills are needed to be included in training and evaluation. It will also be useful to people looking for jobs or an education that will prepare them for an on-demand career. Managers looking to expand IT capabilities, add new products/services, or generally see what these people do can also benefit from this app.

## **2 CURRENT SYSTEM**

A completely new system will be created since there is no old system to replace. Currently, job seekers or corporate users don't have a single place to collect relevant information about the required skills for Data Science jobs. Some people may use various job board websites such as CareerBuilder and Indeed to locate relevant information, but manual use of these sites doesn't provide an interactive analysis or full understanding of trends. As a result, both audiences are not sure what skills are most important to fill these jobs, hire the best candidates, or best path for career growth.

## **3 PROPOSED SYSTEM**

### **3.1 Overview**

The function of this website is to allow users to learn more about the roles of a Data Scientist and to aid them in finding jobs related to it. Both corporate and job seekers will have access to the website and the dashboard within it. Some of the data and functionality will be different depending on the type of user they are. Depending on who the user is will determine what dashboard they see on the main page they are taken to. There, the users will be able to use the data to help them collect the information they seek.

### **3.2 Functional Requirements (“shall lists”)**

Functional requirements are the main features that users expect from the application. They are detailed and specific in system design.

#### **3.2.1**

New job seekers will be able to create a new account if they don't already have one or login with their existing account credentials.

#### **3.2.2**

New corporate employees will have to submit a form to request an account and the IT department will create their login credentials, or they can login with their existing account credentials.

#### **3.2.3**

Both corporate and job seekers will be able to interact with the dashboard and filter out data to fit what they are looking for in a job or candidate.

### **3.3 Non-Functional Requirements**

A non-functional requirement specifies how a system performs a certain function and what its limits are. These requirements generally specify the system's quality attributes or characteristics.

### **3.3.1 Usability**

The website will be easy to learn for both novice and experienced users, efficient for frequent users, easy to remember for casual users, easy to understand, and will be subjectively satisfying to use.

### **3.3.2 Reliability**

Users can expect a webpage that behaves consistently in a user-acceptable manner when operating within the environment for which it was intended. This will be done with effective testing processes to debug and track the average period of time the system runs before failing.

### **3.3.3 Performance**

Design techniques will be implemented to ensure a quick performance. Users can expect a quick response when clicking options to filter. As more data is added, users can expect performance to be scaled up to match larger numbers.

### **3.3.4 Supportability**

The website will not be platform dependent on any specific support system. It will be accessible across different operating systems and devices such as computers and smartphones.

### **3.3.4 Implementation**

Python will be used to accumulate data from job boards. Microsoft Excel will be used to organize the data into a spreadsheet. Tableau will be used to create a dashboard based on the spreadsheet. WordPress will be used to manage the website and display the content.

### **3.3.5 Interface**

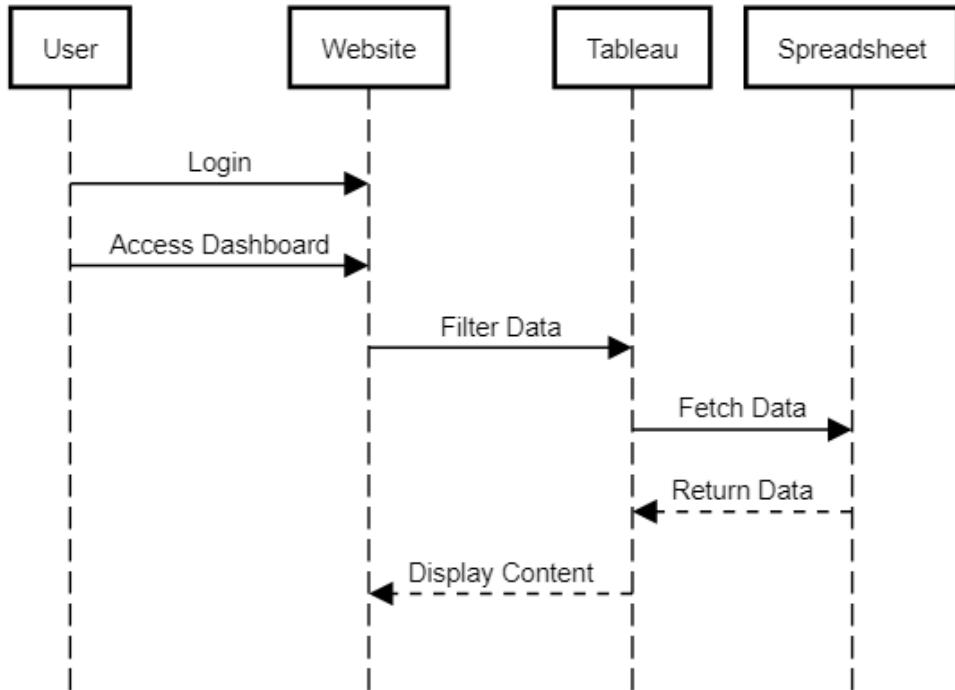
A user interface will allow an effective operation and control of the webpage from the users end.

## **3.4 System Models**

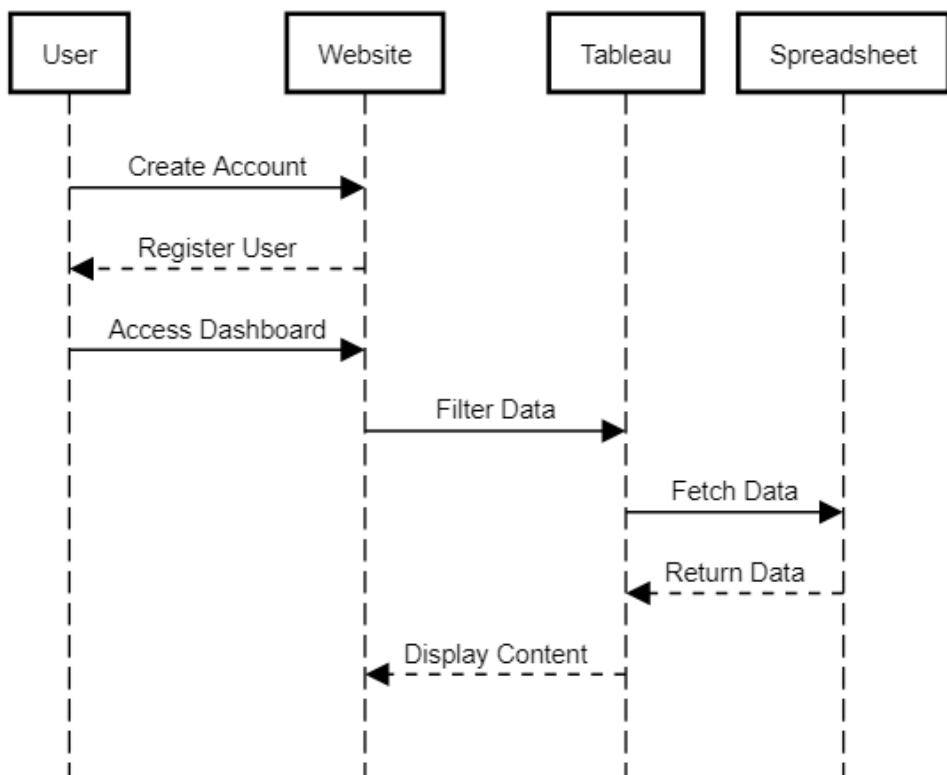
The interdisciplinary study of the use of models to conceptualize and construct systems by describing scenarios, use cases, object model, and dynamic models.

### 3.4.1 Scenarios

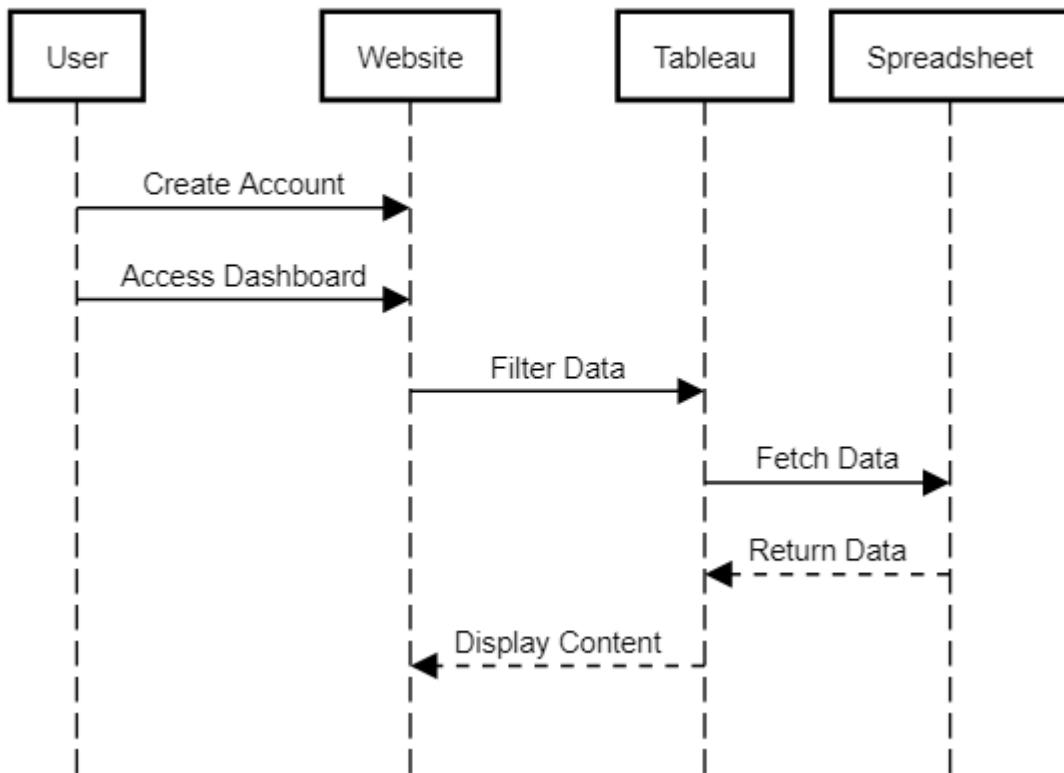
Corporate Users



Job Seeker (New User)



## Job Seeker (Existing User)



### 3.4.2 Use Case Model

#### DASHBOARD 1: FOR JOB SEEKER

##### Use case #1a:

Job Seeker > First Time User

- Create an account
- Access dashboard with relevant information
- Interact with controls to filter relevant content

##### Use case #1b:

- Job Seeker > Existing User
- Login with existing credentials
- Access dashboard with relevant information
- Interact with controls to filter relevant content

#### DASHBOARD 2: FOR CORPORATE

##### Use case #2:

- Corporate > Existing User
- Login to an account by using work credentials
- Access dashboard with relevant information
- Interact with controls to filter relevant content

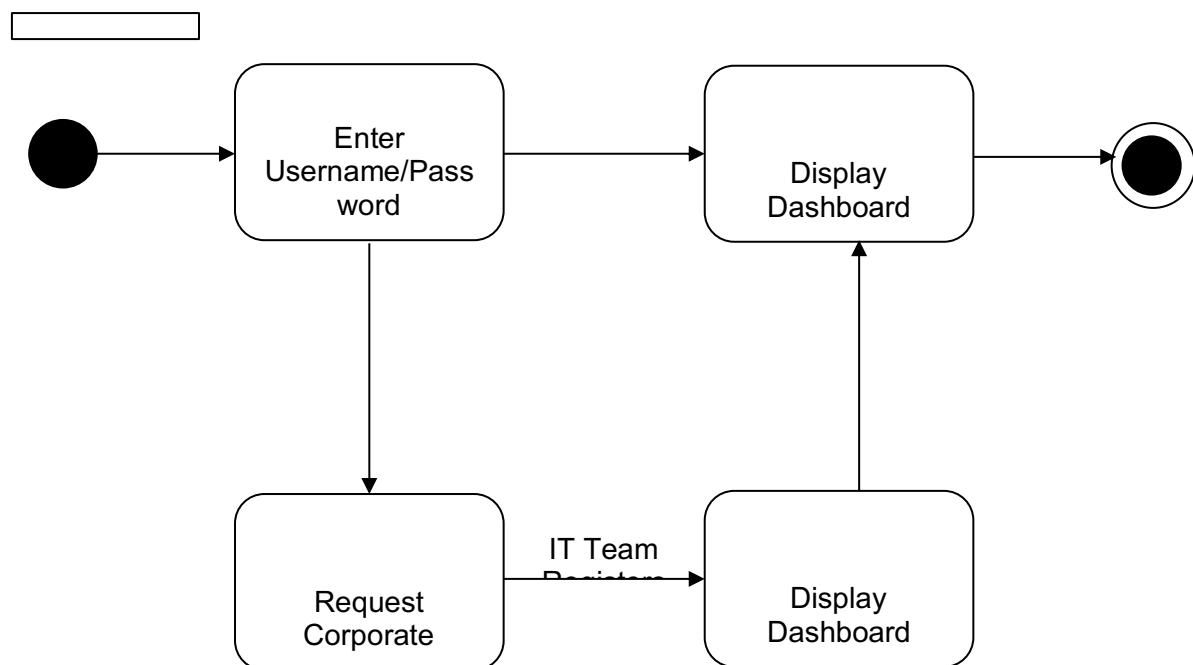
**Use case #2b:**

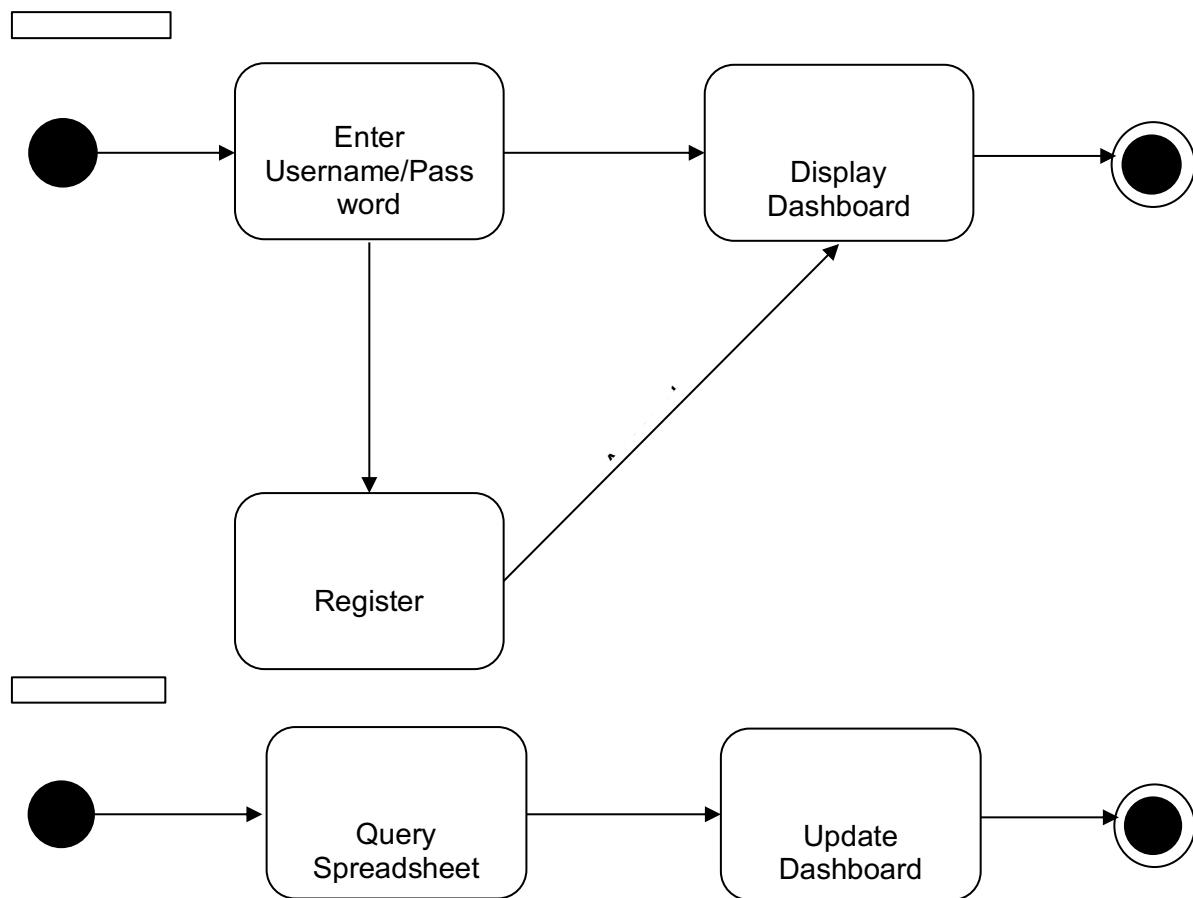
- Corporate > First Time User
- Request corporate account through form on website
- Application IT Team approves and creates account
- Access dashboard with relevant information
- Interact with controls to filter relevant content

**What would all users want to do?**

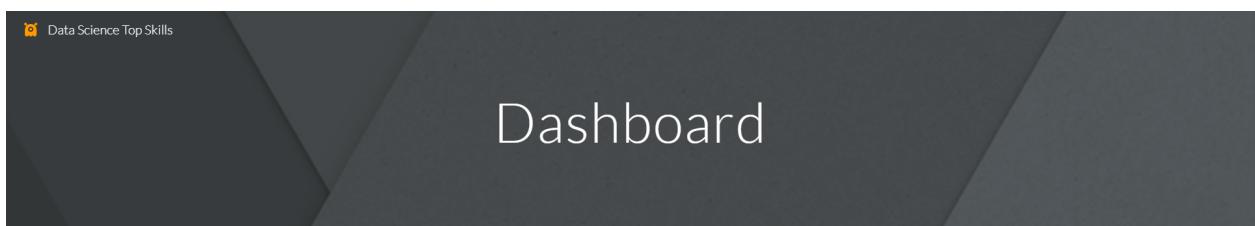
- See Top skills by job board
- See Top skills by job board vs overall average
- See Top skills by job level
- See Top skills by location

### 3.4.4 Dynamic Model





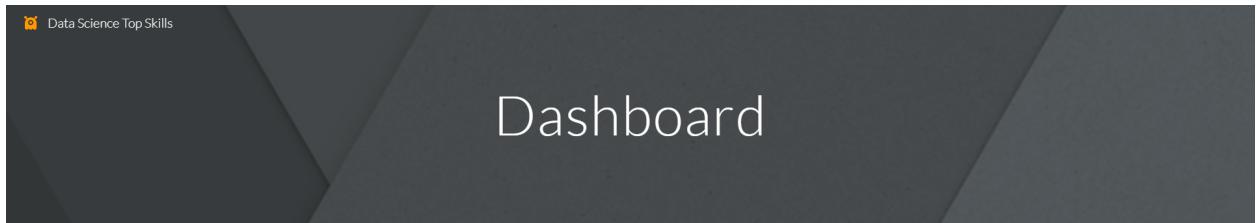
### 3.4.5 User interface—navigational paths and screen mockups



Choose one of the following to create your account or login:

[First Time User](#)

[Existing User](#)



Choose what describes you best:



Data Science Top Skills

## Create Your Account

Use your personal email to create your account.

Email

Password

CREATE ACCOUNT

Data Example

## Corporate Dashboard



# **1 INTRODUCTION - TEST STRATEGY**

The *Test Strategy* documents the overall strategy for testing the processes and applications to be delivered by the project. The objectives of this document are:

- Communicate the scope and phases of testing
- Communicate the components that will be tested
- Communicate the dependencies between testing phases and other projects
- Communicate how the testing processes will be completed and managed

# **2 TEST OBJECTIVES**

- Validate that our spreadsheet represents our data dictionary
- Verify new job seekers can create an account
- Verify job seekers can login/logout
- Verify corporate employees can login/logout
- Verify both user groups can interact with the dashboard (filter data)
- Validate product works across various platforms and devices

# **3 IDENTIFY TEST TYPES**

Type of test	Definition
Integration Testing	An orderly progression of testing in which software elements, hardware elements, or both are combined and tested until the entire system has been integrated
Acceptance Testing	Formal testing conducted to determine whether or not a system satisfies its acceptance criteria and to enable the customer to determine whether or not to accept the system
Performance Testing	Performed to confirm that the system meets performance goals such as turnaround times, maximum delays, peak performance, etc.
Configuration Testing	Tests the product over all the possible configurations on which it is supposed to run
Operational Readiness Testing	Tests the system to find defects that will prevent installation and deployment by the users

## **4 SCOPE OF TESTING**

Testing will be focused on ensuring the website meets technical, business, functional, and non-functional requirements.

## **5 TEST PREPARATION AND EXECUTION PROCESS**

### **5.1 TEST PREPARATION**

Test cases will be identified and compiled into a Testing Plan. This plan will contain test data and status, as well as information on when the tests were conducted and by whom.

### **5.2 TEST EXECUTION**

The Testing Plan created will be used throughout the development of the project to verify if objectives have been met. Test status will indicate bugs and issues that need to be fixed. Success on all tests will indicate the website meets the requirements and is ready for deployment.

## **6 TEST DATA MANAGEMENT**

Test types and results of individual tests will be within the Testing Plan. This plan is organized as a spreadsheet with all relevant information available.

# **1 DOCUMENT OVERVIEW - System Design Document**

This document is intended to satisfy all the customer requirements, objectives and expectations.

## **1.1 SCOPE**

WordPress (PHP and JavaScript), Tableau, Excel, and Python will be used to build the architecture of the application.

## **1.2 AUDIENCE**

Skills required for users to use the application are basic skills to use a device connected to the internet and navigating a web browser.

## **1.3 RELATED DOCUMENTATION**

The system will be tested with ten tests aimed specifically for the following functions: login, logout, registration, profile editing, account deletion, restrictions based on user type, browsing capabilities, and saving the dashboard/data.

## **1.4 DOCUMENT CONVENTIONS**

The Unified Modeling Language (UML) is the diagrammatic notation being used in this document to represent architectural views.

# **2 SYSTEM OVERVIEW**

The system design aspects consist of the overall architecture of the website from login to a dashboard. The system is further broken down by the flow of data, data dictionary, and architecture.

## **2.1 DESCRIPTION**

The system should be accessed through the internet by a job seeker or a corporate employee such as Human Resource, Management, or Workforce Planners. There, the user can login if they are a returning user and will be redirected to the appropriate dashboard. New job seekers should choose the register option and new corporate users should submit a request for a corporate account. After registration is complete the user will be redirected to the appropriate dashboard. Then the user can scroll down through the different graphs. The dashboard tab should provide the user with data obtained

from various job boards that will list the most sought-after skills for Artificial Intelligence, Machine Learning, and Deep Learning.

## 2.2 SYSTEM ARCHITECTURE

### Software Architecture

The software architecture will allow a user to reach *Dashualize's* dashboards by creating an account or if she/he is an existing user, by a login. There, the user will have the option of analyzing the different charts of the Data Scientist data collected from different job boards.

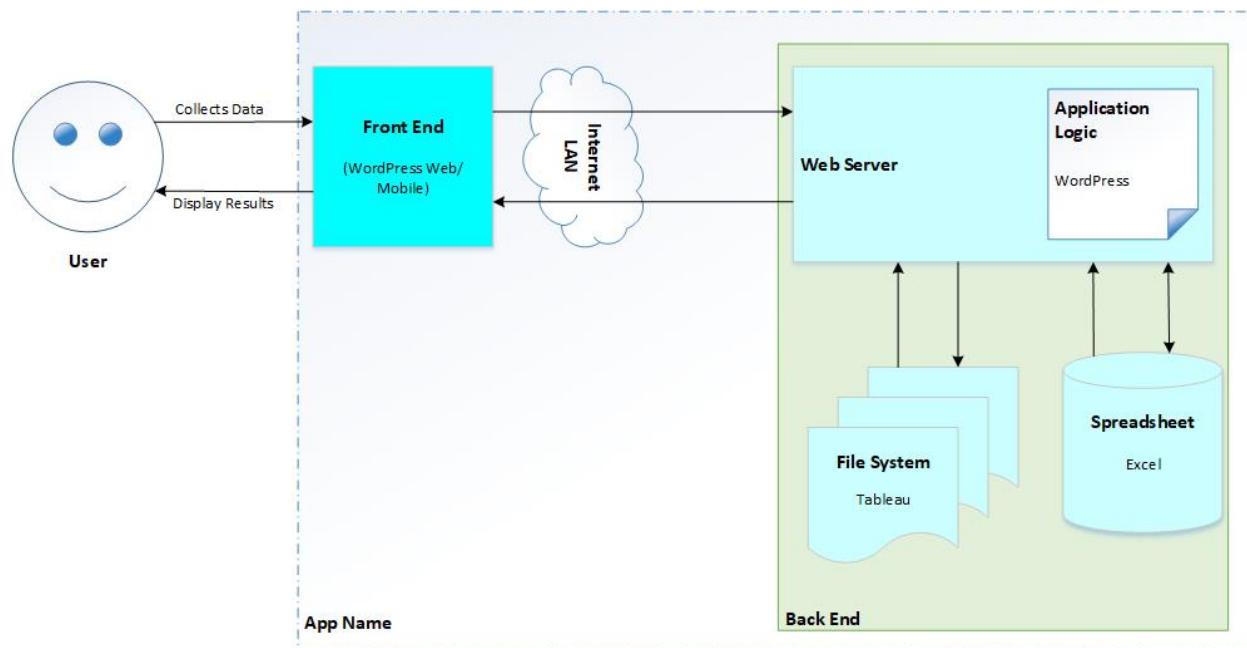


Table 1

## 3 SOFTWARE DESIGN

The software components being built are a user registration/login requirement for job seekers and corporate users. The registration/login portion was obtained from a module on WordPress and the dashboard is being designed with Tableau.

### 3.1 SOFTWARE PACKAGES

#### {Login/Register #1...N}

The Login/Registration module is detailed in table 2 with a data flow diagram description in table 3.

## 3.2 SOFTWARE INTEGRATION

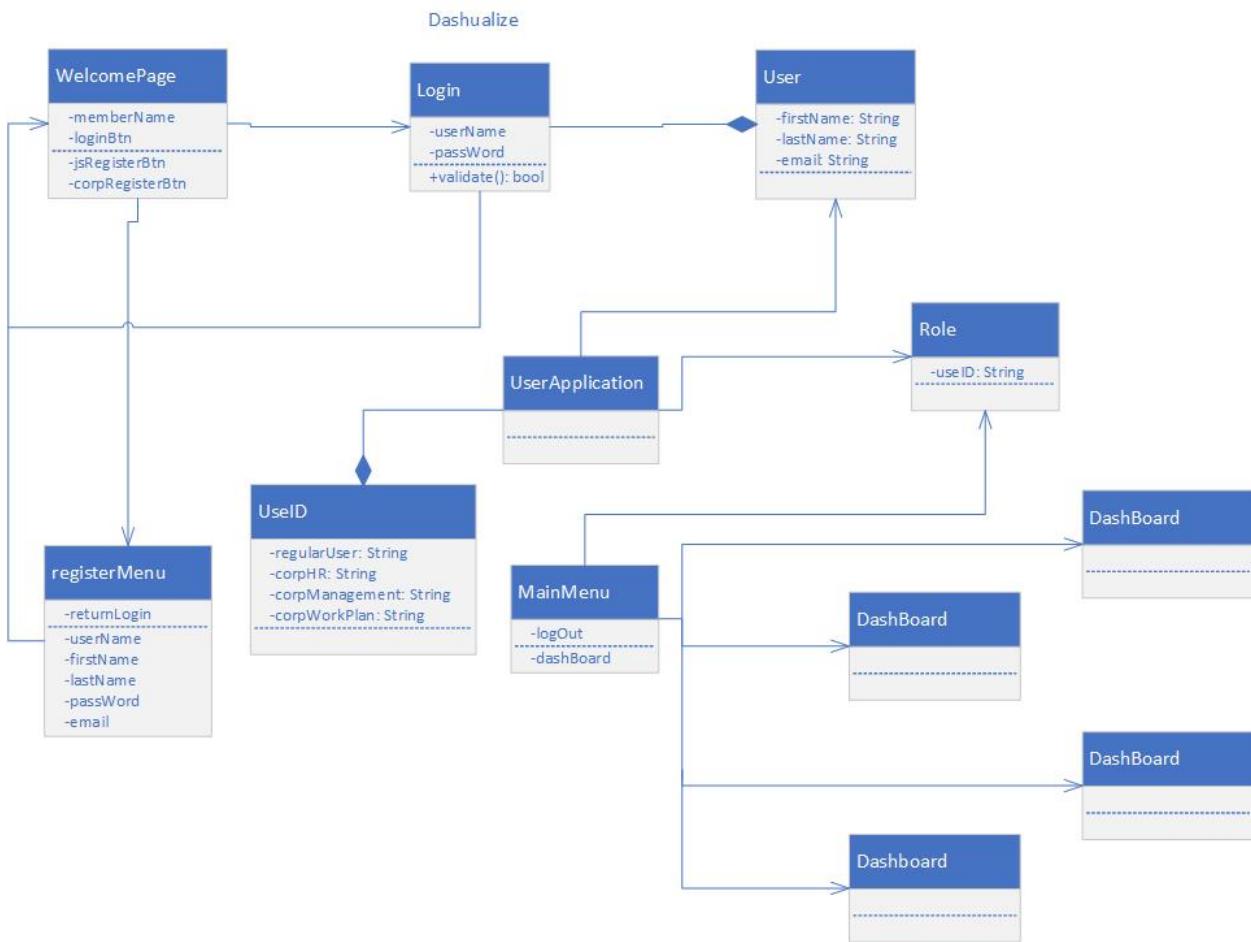


Table 2

## 4 DATA / DATABASE/FILES

Overview of Software Modules to Data/Repositories Linkages.

## 4.1 DATA FLOW DIAGRAMS

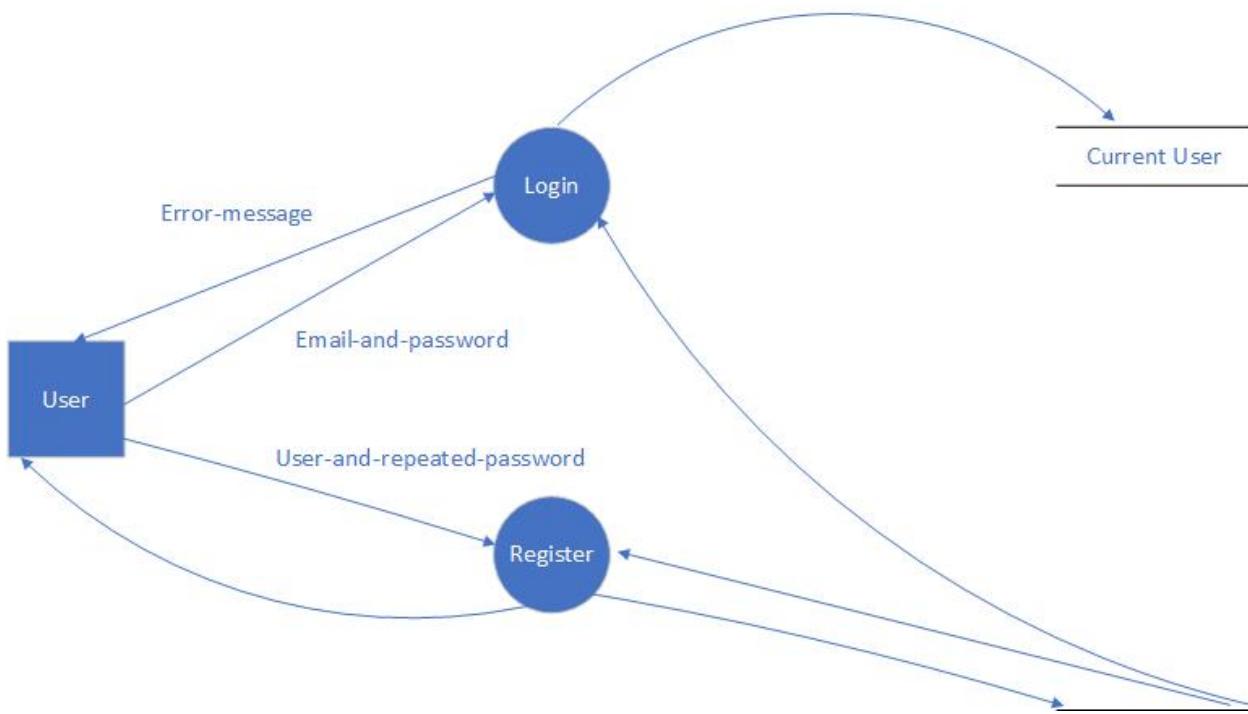


Table 3

## 4.2 DATA DICTIONARY

Attribute	Data Type	Description
Keyword	String	Job Description (Artificial Intelligence, Machine Learning, Deep Learning)
Job Board	String	Job Board used to scrape data
Tech Skills	String	Tech Skills found during scraping
Soft Skills	String	Soft Skills found during scraping
City	String	City of job posting
State	String	State of job posting
Experience	String	Experience level required in job posting (Entry, Skilled, Expert)
Salary Average	Number	Average Salary for Experience level per city

Cost of Living Index	Number	Cost of Living compared to New York
Rent Index	Number	Rent Index compared to New York
COL + Rent Index	Number	Combined Index of Cost of Living and Rent compared to New York

### 4.3 FILES

The data is stored in an Excel spreadsheet provided through the Python scraping program that automatically inserts it into Tableau after it is run and then displayed in the dashboard.

# **1 Introduction - Use Case Specification**

This document describes the process for developing use case specifications during requirements gathering. This process needs to be followed when developing functional requirements when those requirements are from a user's perspective.

## **1.1 WHAT IS A USE CASE?**

A use case is a kind of story of how a system and its actors collaborate to achieve a specific goal. It is a step-by-step description of a particular way of using a system. The structure of a use case is a narrative in nature. The story tells how the system and its actors work together to achieve something of significance to the actors involved.

Each use case expresses a goal of the actors involved and describes a task that the system, with the assistance of the appropriate actors, will perform. You can get an idea of a use cases' goal simply by observing its name and associations.

When treated formally, the collected set of a system's use cases constitute all the possible ways of using the system.

# **2 BUSINESS PURPOSE**

The business purpose is to provide a detailed information about skills related to the Data Science jobs to both job seekers and corporate users. Information should be provided in such a way so that users can interact with data and make their own conclusions about their findings. Job seekers should be able to understand their skills gaps and Human Resource users should be able to understand what skills to look for in ideal applicants. All users should be able to understand geographical and salary trends related to the Data Science job descriptions.

# **3 DEVELOPMENT METHOD**

## **3.1 INPUT(S)**

Business/User Requirements Document  
Goal Model

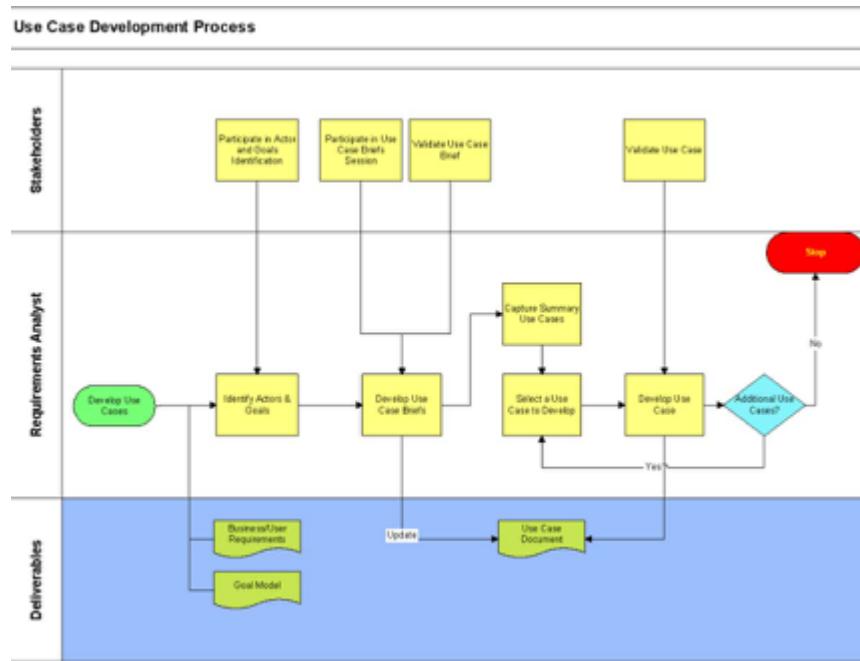
## **3.2 OUTPUT(S)**

Use Case Document

### 3.3 DEPENDENCY(IES)

All of the use cases will cover the requirements from the Requirements Analysis document. Our use cases would be testing all of the functional requirements we have listed for both the website and dashboard.

### 3.4 PROCESS



### 3.5 PROCEDURE

#### 3.5.1 Brainstorm Actors & Goals

##### 3.5.1.1 Actors

Primary Actor 1: Job Seeker

Primary Actor 2: Corporate (Human Resource, Workforce Planning, and Management)

Supporting Actor 3: IT Team

##### 3.5.1.1.1 How to Find Actors

The following set of questions is useful when you are identifying actors:

- Who will supply, use, or remove information from the system?

Admin/IT Team

- Who will operate the system?

Primary actors: job seekers and corporate users

- Supporting actor: IT Team
- c. Who will perform any system maintenance?  
Admin/IT Team
  - d. Where will the system be used?  
Web based application
  - e. Where does the system get its information?  
Data Scraping (can be run at any time to update data)
  - f. What other external systems will interact with the system?  
Most popular job boards to get latest data  
Tableau to display interactive data

### **3.5.1.2 Brainstorm Actors (User) Goals for the System**

Goals for Primary Actor 1: Job Seeker

- > Register/Create an Account [high level]
- > Log in [high level]
- > Log Out [low level]
- > Filter relevant data [high level]

Goals for Primary Actor 2: Corporate (Human Resource, Workforce Planning, and Manager)

- > Use existing credentials to Log in [high level]
- > Request for a new account from IT team [high level]
- > Log Out [low level]
- > Filter relevant data [high level]

Goals for Supporting Actor 3: I.T. Team

- > Add/delete users [high level]
- > Access/update spreadsheet [high level]

### **3.5.2 Develop Use Case Brief**

**Actor 1 - Job Seeker - Brief:**

Job Seekers need to be able to register by creating an account. Once registered, job seekers should be able to access an Interactive Dashboard to preview and filter information related to the Data Science job descriptions. Job seekers should be able to make their own conclusions about their skill gaps and other technical trends, such as salary and geographical data.

#### **Actor 2 - Corporate - Brief:**

Corporate users need to be able to login using existing credentials or request access through a form and wait for approval from the IT department. Once logged in, corporate users should be able to access an Interactive Dashboard to preview and filter information related to the Data Science job descriptions. Corporate users should be able to understand best qualities they should be looking in ideal candidates to fill Data Science positions along with salary and geographical data.

#### **Actor 3 - IT Team - Brief:**

IT team should be able to access and update the spreadsheet. IT users should also be able to add and delete users as needed.

### **3.5.3 Capture Summary Use Cases**

See page 31 of document.

### **3.5.4 Select a Use Case to Develop**

The use case that would be expanded upon for this documentation would be, how the job seeker would use the filter option on the dashboard to find a job that fits their requirements.

### **3.5.5 Develop the Use Case**

The following paragraphs will describe each section of the Use Case Specification:

#### **3.5.5.1 Trigger**

The actor would be a person, the job seeker. The use case is triggered by the job seeker wanting to look for a job that has all or most of the requirements that he is looking for.

#### **3.5.5.2 Frequency**

The use case would happen every time that the job seeker wants to use the filter feature of the dashboard after picking the job description that fits their skills (i.e. Artificial Intelligence, Machine Learning, and Deep Learning).

#### **3.5.5.3 Flow of Events**

Once the user, the job seeker, is on the home page, the user would be able to see the dashboard. The user would then select which type of data they want to look at closely. Once the users have selected what they want to look for, the user would see the refined search on the dashboard. Then they would be done with the use case of using the filter features.

#### **3.5.5.4 Alternative Flows**

An alternate flow for this use case in terms of filtering the dashboard would be that the user doesn't see what they are looking for. Sometimes the filtering doesn't give options that would fit the user's requirements or skills.

#### **3.5.5.5 Preconditions**

In order for the user to start the use case, the precondition is that the user would need to login with their credentials or register for an account. Then the user would be taken to their dashboard.

#### **3.5.5.6 Post Conditions**

After the user has accomplished all the filtering to find the data for the job they want, the screen will then show only the data from filtering. This would then be the end of the use case before the user moves on to do another use case.

#### **3.5.5.7 Extension Points**

There are no extension points after filtering the data from the dashboard but there is a use case before that would better fit with how the dashboard would look like depending on who the user is, and what credentials they use to login.

#### **3.5.5.8 Special requirements**

Non-functional requirements as mentioned in Requirements Analysis Document, we are creating a site that is reliable, quick in performance, and will be built by Python, Microsoft Excel, Tableau, and Wordpress.

## **3.6 TEMPLATE(S)**

Use Case Document Template

- Actor, Goals, and Use Case Brief
- Use Case Diagram

### 3.7 QUALITY ASSURANCE

Consider the use case “done” when:

- All the primary actors and all the user goals with respect to the system have been named.
- All trigger conditions to the system either as a use case trigger or as extension conditions have been captured.
- All the user-goal use cases have been written, along with supporting use cases.
- Each use case is written clearly enough that:
- The sponsors agree that they will be able to tell whether or not it is actually delivered.
- The users agree that it is what they want or can accept as the system’s behavior.
- The developers agree that they can actually develop that functionality.
- The sponsors agree that the use case set covers all they want (for now)

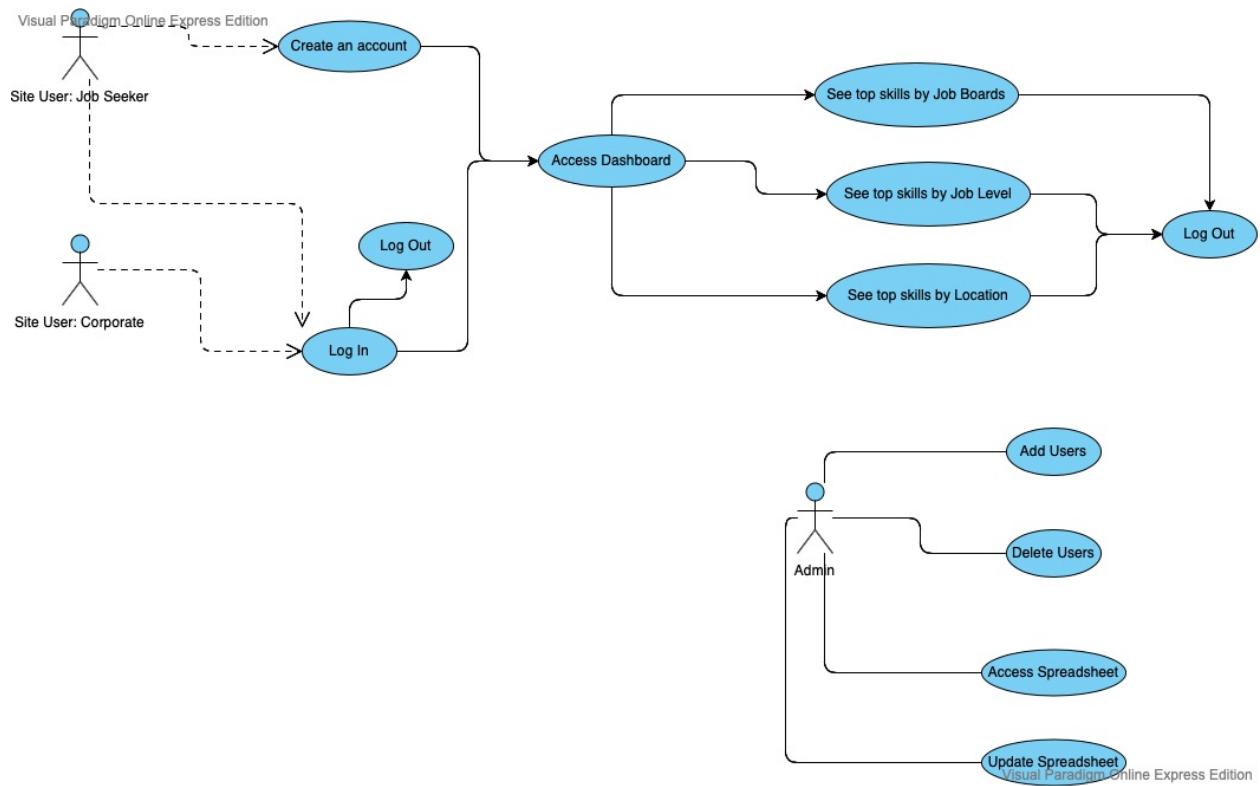
## 4 USE CASE SPECIFICATION

### 4.1 ACTORS, GOALS AND USE CASE BRIEFS

Actors	Task-level Goal	Priority	Brief
Primary Actor 1: Job Seeker	> Register/Create an Account > Log in > Log Out > Filter relevant data	[high level]  [high level] [low level] [high level]	Job Seekers need to be able to register by creating an account. Once registered, job seekers should be able to access an Interactive Dashboard to preview and filter information related to the Data Science job descriptions. Job seekers should be able to make their own conclusions about their skill gaps and other technical trends, such as salary and geographical data.
Primary Actor 2:	> Use existing	[high level]	Corporate users need to be

Corporate (Human Resource, Workforce Planning, Manager)	<p>credentials to Log in            &gt; Request for new account from IT team            &gt; Log Out            &gt; Filter relevant data</p>	<p>[high level]            [low level]            [high level]</p>	<p>able to login using existing credentials or request an account that will be approved by the IT department. Once logged in, corporate users should be able to access an Interactive Dashboard, specific to them, to preview and filter information related to the Data Science job descriptions. Corporate users should be able to understand best qualities they should be looking in ideal candidates to fill Data Science positions along with salary and geographical data.</p>
Supporting Actor 3: IT Team	<p>&gt; Add/delete users            &gt; Access/update data</p>	<p>[high level]            [high level]</p>	<p>Admin users should be able to access and update data by running the scraper. Admin users should also be able to add and delete users as needed.</p>

## 4.2 USE CASE DIAGRAM



# **1 INTRODUCTION - System Deployment Plan**

Main delivery method will be a website that's accessed online by job seekers and corporate users. Job seekers will be able to register and Corporate users will use existing credentials to login or request an account that has to be approved by the IT department. All users will be able to access an interactive dashboard to learn about technical and soft skills related to Data Science jobs. Information will be provided in such a way that users can interact with data and make their own conclusions about their findings. Job seekers will be able to understand their skill gaps and corporate users will be able to understand what skills to look for in ideal applicants. All users will be able to understand geographical and salary trends related to the Data Science jobs.

- Fully working preview demo was delivered on March 4, 2019.
- Final round of QA testing was performed between March 4<sup>th</sup> and March 17<sup>th</sup> to incorporate any feedback from preview demo and any final bug fixes.
- Final project is scheduled to be delivered on March 18, 2019.

## **2 DEPLOYMENT SCOPE**

During deployment, our team will ensure all pieces of the website functions and display properly across different platforms and browsers as specified in the Testing Plan. Our team will allocate additional time before final deployment to fix any identified functional and display bugs.

### **2.1 OBJECTIVES**

WordPress website will be tested to ensure user registration and login works as expected. The dashboards will be tested to verify all gamification elements and filters work as expected.

### **2.2 RANGE OF OPERATION**

The goal of this system to assist Corporate departments in searching for potential new Data Scientist employees, aiding in their paygrade, and training current employees by providing data in the form of a dashboard. The data on the dashboard shows the top skills to look for in a hiree as well as pay and cost of living. The data can be filtered by the user with various interactive filters. A secondary function is to assist employees and potential employees in verifying if they have the appropriate skills or not.

### **3 DEPLOYMENT STRATEGY**

With our approach of having a website, it would be “rolled out” to various locations at once. It is in a way “deployed” at the moment, but it would be harder for someone to find the site without having a direct link to access it. Once the website is deployed, we plan on having tests done to make sure that the UI of the website is working throughout all platforms and that the backend also works with the frontend of the site.

### **4 DEPLOYMENT SCHEDULE**

The goal for the next phase is to have the scraping for the salary and cost of living data to be automated. At the moment, the scraping of tech skills, soft skills, job locations, and job boards used is automated. However, salary and cost of living information has to be compiled manually whenever new data is needed to update the spreadsheet and dashboard.

### **5 DEPLOYMENT COMMUNICATIONS PLAN**

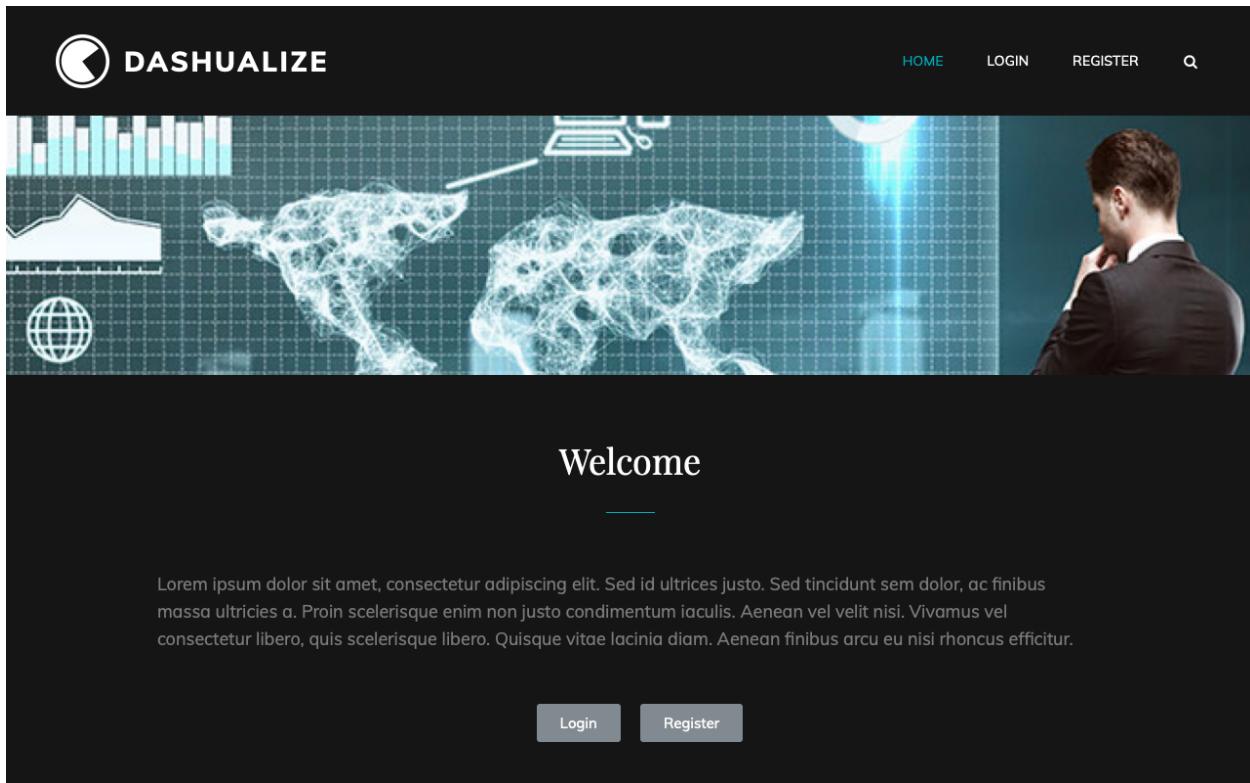
Deployment team will communicate with client about all stages of deployment during in-person meetings and final presentation.

### **6 TRANSITION TO OPERATIONS AND SUPPORT PLAN**

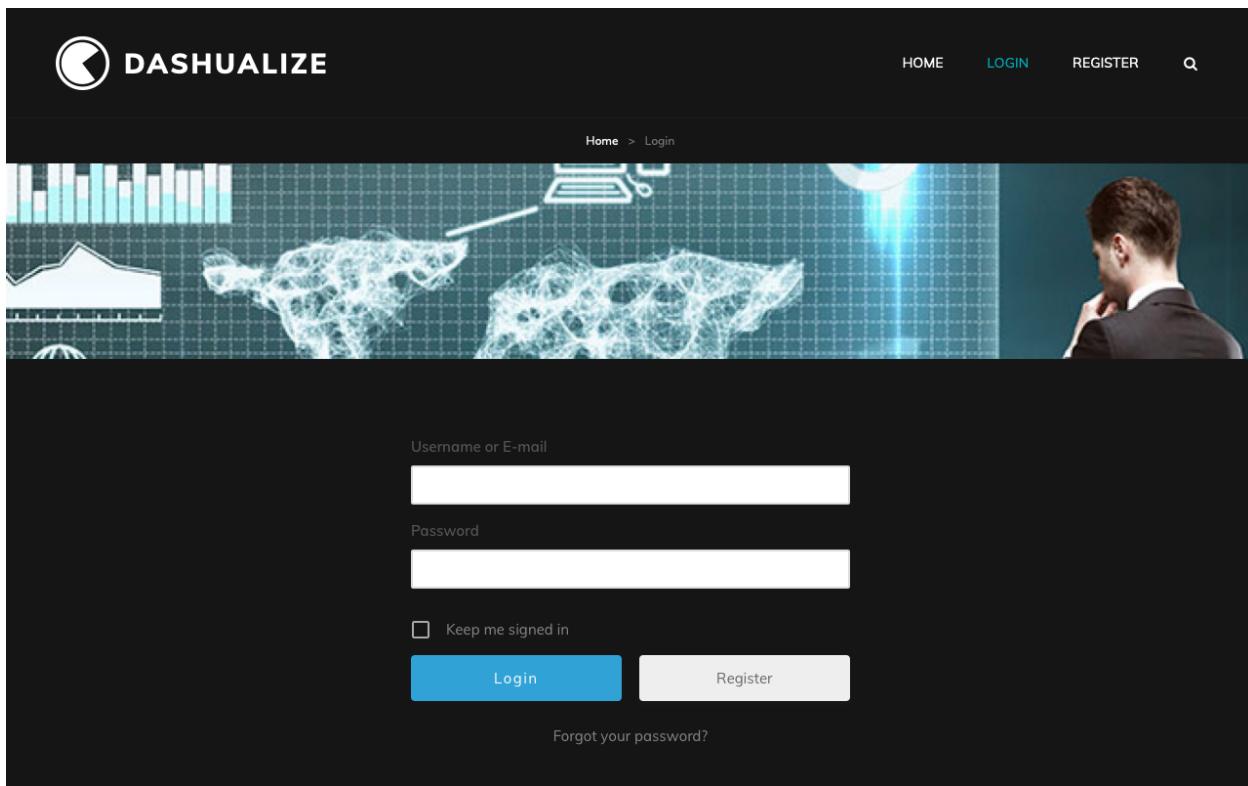
Once the product is complete, the client will receive administrator credentials to manage the website. Client will receive basic training on adding/deleting users, updating content pages, and running the current scraper to update job data. Modifying the Tableau dashboard will be out of the scope of training.

## 7 Wireframes

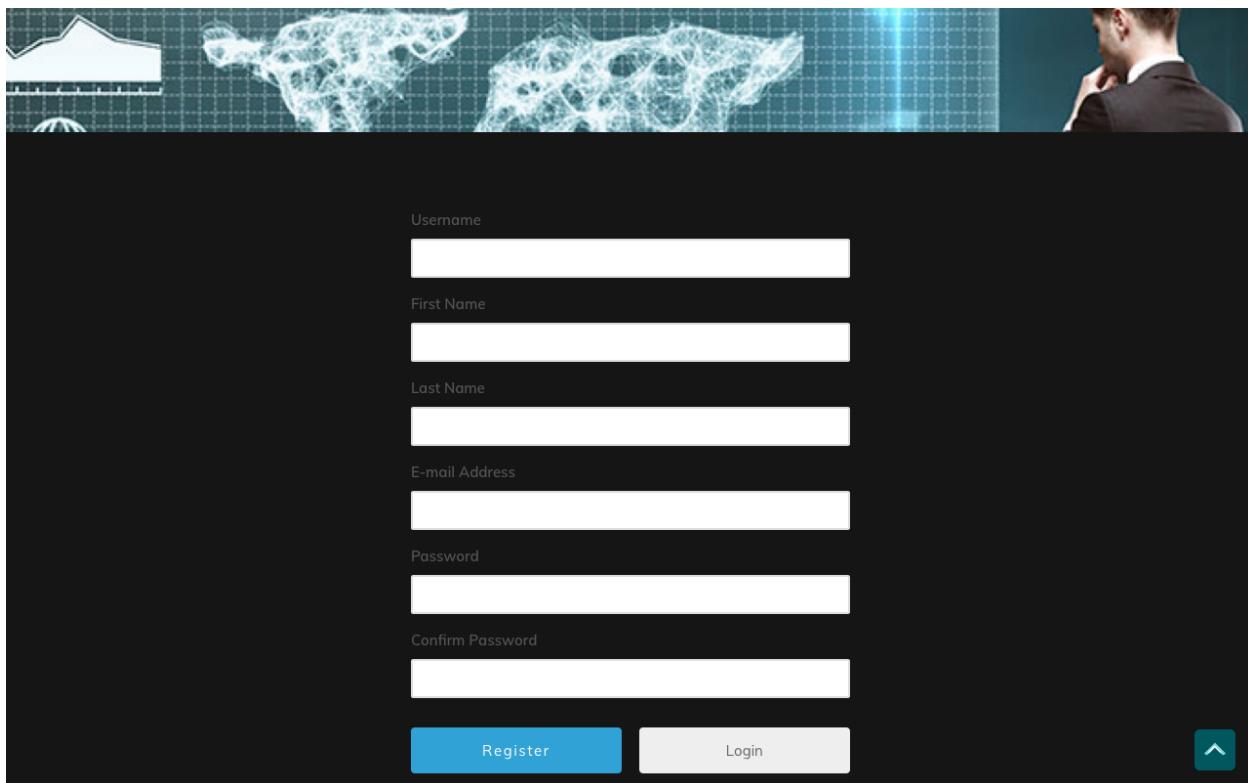
This is our homepage that the user would see once they enter in the URL



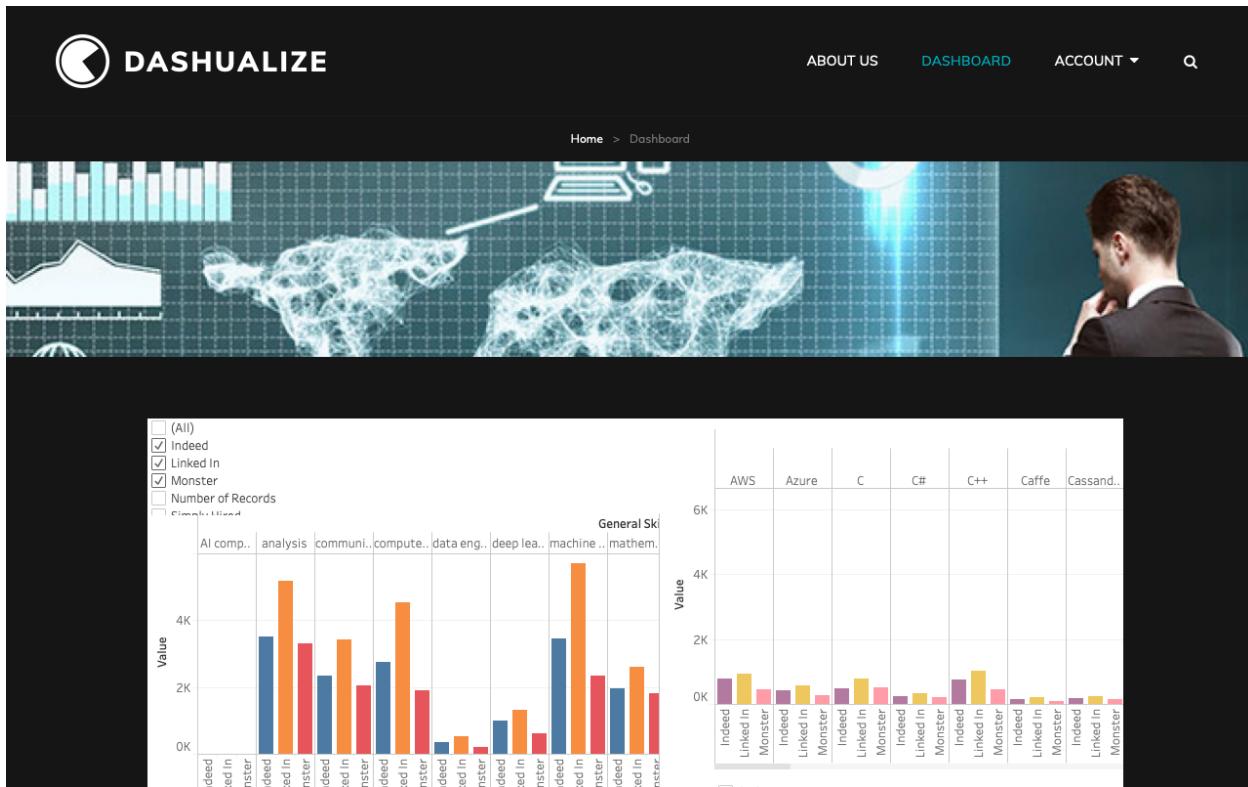
This is the Log-in page that both job seekers and corporate would use to access the website



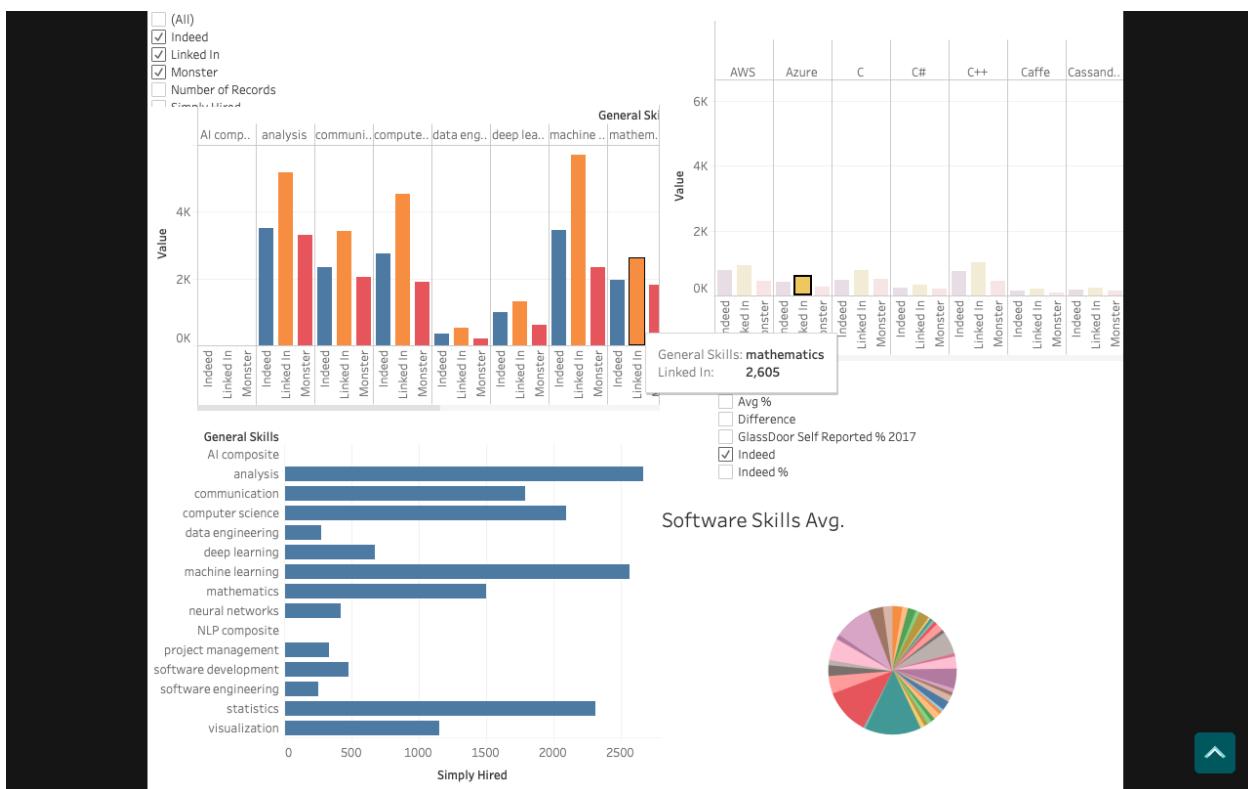
This is the Register page for job seekers to make an account



This is the landing page once both, job seekers and corporate, log-in



This is our interactive dashboard



This is our About Us page that we would talk about the project and what the website is

The screenshot shows the DASHUALIZE website's About Us page. At the top, there is a navigation bar with the DASHUALIZE logo, links for 'ABOUT US', 'DASHBOARD', 'ACCOUNT ▾', and a search icon. Below the navigation is a banner featuring a blue-toned image of a brain or network structure with a small airplane icon above it. The main content area contains a paragraph of placeholder text ('Lorem ipsum...') and a copyright notice at the bottom: 'COPYRIGHT © 2019 DASHUALIZE | ROCK BAND BY CATCH THEMES'.

On the top right, we have an account option where the user is able to log-out or can edit their account if they click on Account

The screenshot shows the same DASHUALIZE About Us page as before, but with a specific change: the 'Logout' link in the 'ACCOUNT ▾' dropdown menu is highlighted in blue. The rest of the page content, including the banner, text, and footer, remains the same.