Oregon Health Science Careers
Project Use Documentation

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Abstract

This manual is guide for future managers and administrators of our Oregon Health Science Careers website. This document contains a clear guide for how to manage the website and database. Through this manual, future website administer may learn how to change and update information, how to manage the database, and how to fix simple problems in the future.

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1. What is Website Maintenance?

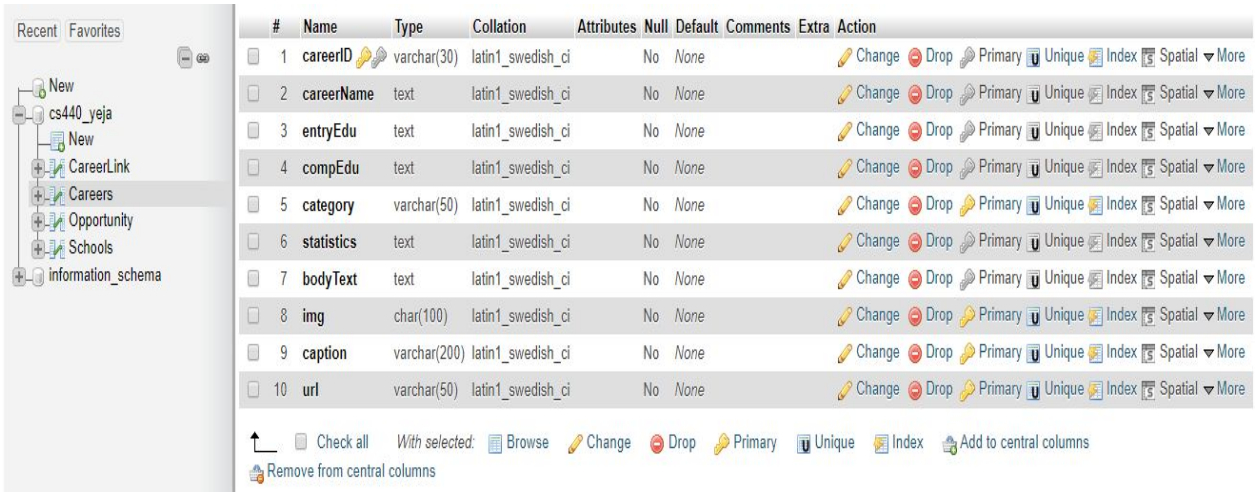
Website Maintenance involves various works to guarantee all the operational activities of the websites and internet. Thus, Website Maintenance is for making sure everything works on the websites and follow the scheduled plan.

Website Maintenance Activities:

- **Website UI Updating:** Involves changing CSS coding to alter UI design.
- **Website Database Management:** Managing data displayed on our website.
- **Website Server Management:** Organizing files, file structure, and file permissions to suit website needs.
- **Website Performance Monitoring:** Using Google Analytics to manage and monitor the website performance and site traffic.
- **Website Content Updating:** Changing content in HTML/PHP pages or databases to update information available on the website.

2. Website Maintenance Glossary

Database:
It is a system software for managing data. The software allow user to create, read, update, and delete data. Database is usually being managed by a Database Management System which is a system software that serves as an interface between the database and application programs. In addition to using a database, most data or information is consistently organized, managed, updated, and remain easily accessible. The data is organized into rows, columns and tables.



HTML:
HTML is the primary coding language used to implement our website's elementary features. It contains elements with class tags that link to our style sheets scripts:

```
<!DOCTYPE html>
<html lang="en">

<head>

    <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <meta name="description" content="">
    <meta name="author" content="">

    <title>Health Careers</title>

    <!-- Bootstrap Core CSS -->
    <link href="css/bootstrap.min.css" rel="stylesheet">

    <!-- Custom CSS -->
    <link href="css/business-casual.css" rel="stylesheet">

    <!-- Fonts -->
    <link href="https://fonts.googleapis.com/css?family=Open+Sans:300italic,400italic,600italic,700italic,800italic,400,300,600,700,800
    stylesheet" type="text/css">
    <link href="https://fonts.googleapis.com/css?family=Josefin+Slab:100,300,400,600,700,100italic,300italic,400italic,600italic,700ita
    ="stylesheet" type="text/css">

    <!-- HTML5 Shim and Respond.js IE8 support of HTML5 elements and media queries -->
    <!-- WARNING: Respond.js doesn't work if you view the page via file:// -->
    <!--[if lt IE 9]>
        <script src="https://oss.maxcdn.com/libs/html5shiv/3.7.0/html5shiv.js"></script>
        <script src="https://oss.maxcdn.com/libs/respond.js/1.4.2/respond.min.js"></script>
    <![endif]-->

</head>

<body>


    <div class="brand"> <img src= "img/logo.png" height="120" width="120" hspace="30" />Oregon Health Science Careers</div>
```

Heading:
The headings tags <h1> < h2> <h3>… change the header content from large to small text.

```
1  <h1>Oregon Health Career </h1>
```

Images:
The image tags, <img>… </img>, are used to link images to pages:

```
1  <img> logo.png </img>
```

Class:
The class tag attributes are used to apply a series of identical scripts to multiple HTML elements. In our case, element classes are typically used to link Bootstrap and CSS styling to our webpages.

```
<div class="container">
    <!-- Brand and toggle get gro
    <div class="navbar-header">
```

CSS:
According to W3School: "CSS stands for Cascading Style Sheets. CSS describes how HTML elements are to be displayed on screen, paper, or in other media."

As a style sheet, it has to be linked to an HTML file using follow tag structure to connect with the HTML file.

```
<!-- Bootstrap Core CSS -->
<link href="css/bootstrap.min.css" rel="stylesheet">

<!-- Custom CSS -->
<link href="css/business-casual.css" rel="stylesheet">
```

Bootstrap:
Bootstrap is the HTML, CSS and JavaScript framework used heavily to influence our website's visual design.

3. GitHub Repository

The entirety of our project development can be accessed through our GitHub repository at: https://github.com/corbelld/EECS_Capstone_Group_41_2016-2017.

The Desktop_Site directory holds the HTML, PHP, CSS, JS, and image files used in implementing our website.

The Database Setup directory holds the SQL file necessary for implementing our database, while the CSV files are necessary for building our site at its current state.

The Database Maintenance directory holds all files related to our CSV update system through which our client will be able to add new information or update information currently displayed on the website.

The Documents directory holds all documents related to our development process

The Health Careers App folder contains our the files necessary to build our Application project using Android Studio

The User Testing Results directory holds our compiled results from user testing

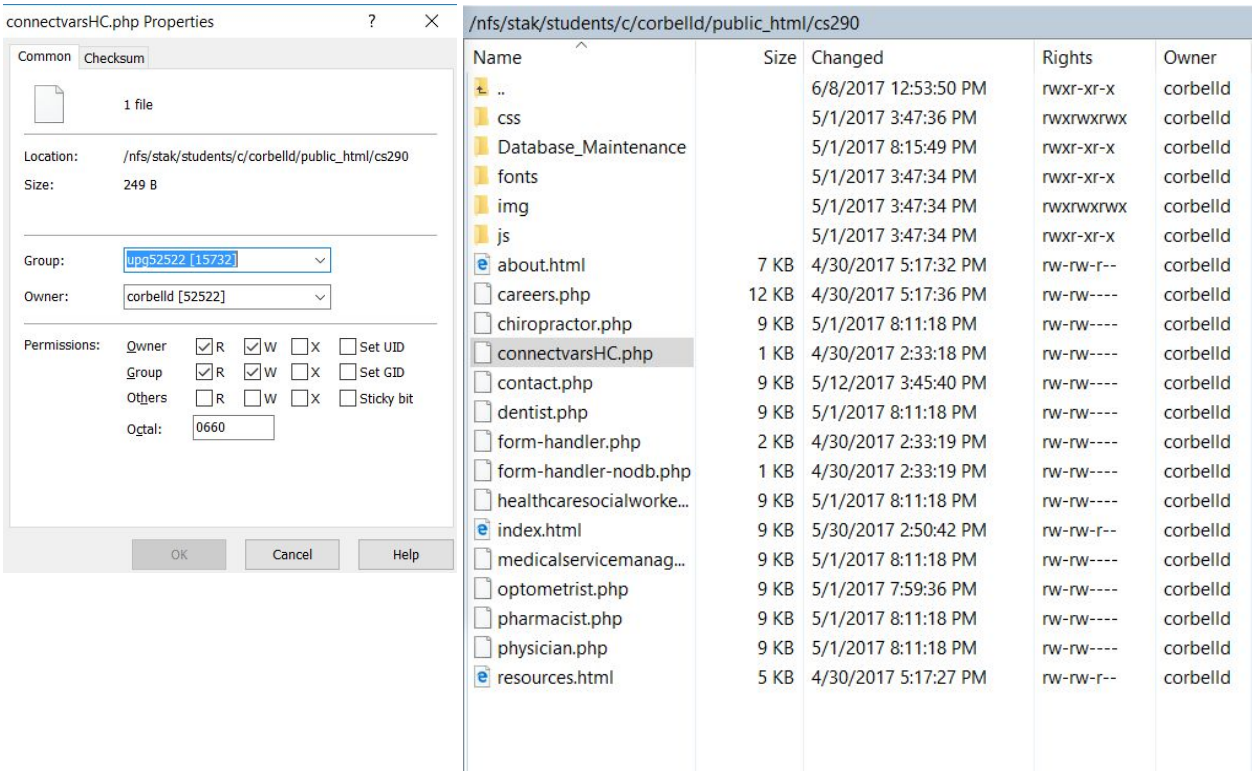
Within this root directory also exists our Android application file. It is required that the application be downloaded to the desired Android device or emulator for testing. It may also be necessary to update security features to turn off application authentication under security or use a file manager to access the file for installation to work properly.

File Hosting and Permissions…….

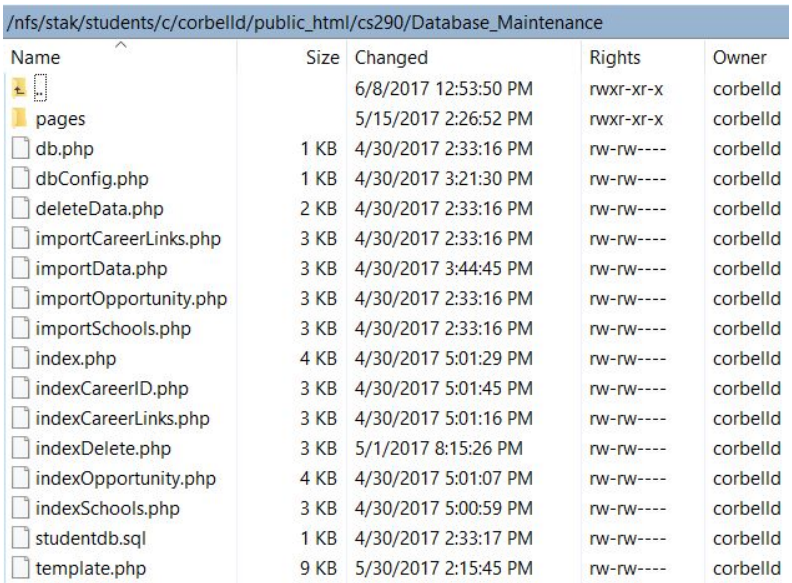
For proper usage, all files from the Desktop_Site repository should be hosted to the desired web server, while the Database_Maintenance files should be hosted separately for security reasons, this will allow only those with the proper URL link to access the upload sites, regardless of whether or not they have the necessary CSV files.

In order to properly host and access the files present in our GitHub repository it is necessary for several key file permission changes to be made. As displayed in the below images, files have read, write, and execute permission variables for Owner, Group, and Other users; in order to properly use these settings, the file permissions should be set as seen in the included file browser window.

These images display the settings for the connectvarsHC.php file. Similar changes should be made to reflect the settings “Rights” file column for R - “Read”, W - “Write”. and X - “Execute.”



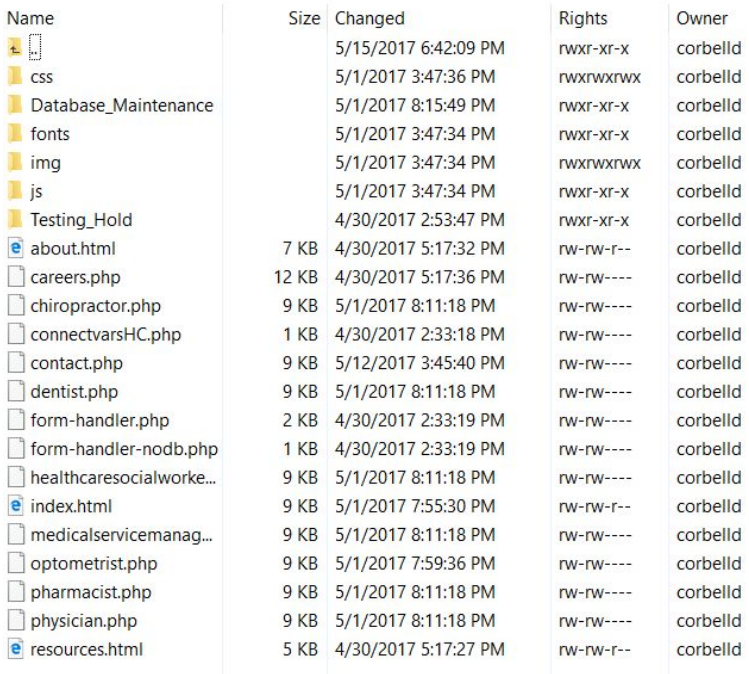
The above image shows the settings for files in the Desktop_Site GitHub directory, while the necessary settings for the Database_Maintenance files are displayed below



4. Server Requirements

Our website has been developed using a variety of file types, among which include HTML and PHP files. While HTML5 code is most commonly able to be hosted by web servers, PHP scripts are not necessarily supported. Our implementation requires these scripts for actions such as pulling information from our database, generating career pages, and sending emails from our contact page. In order for this website to work properly it is necessary that the hosting solution for this project supports the running of server-side PHP code.

A separate hosting solution is not required for the Android application to run properly as the page display generated is based on a scaled version of the desktop site, which utilizes Bootstrap. Any changes made to the desktop implementation may, however, reflect poorly upon the mobile or Android application displays.

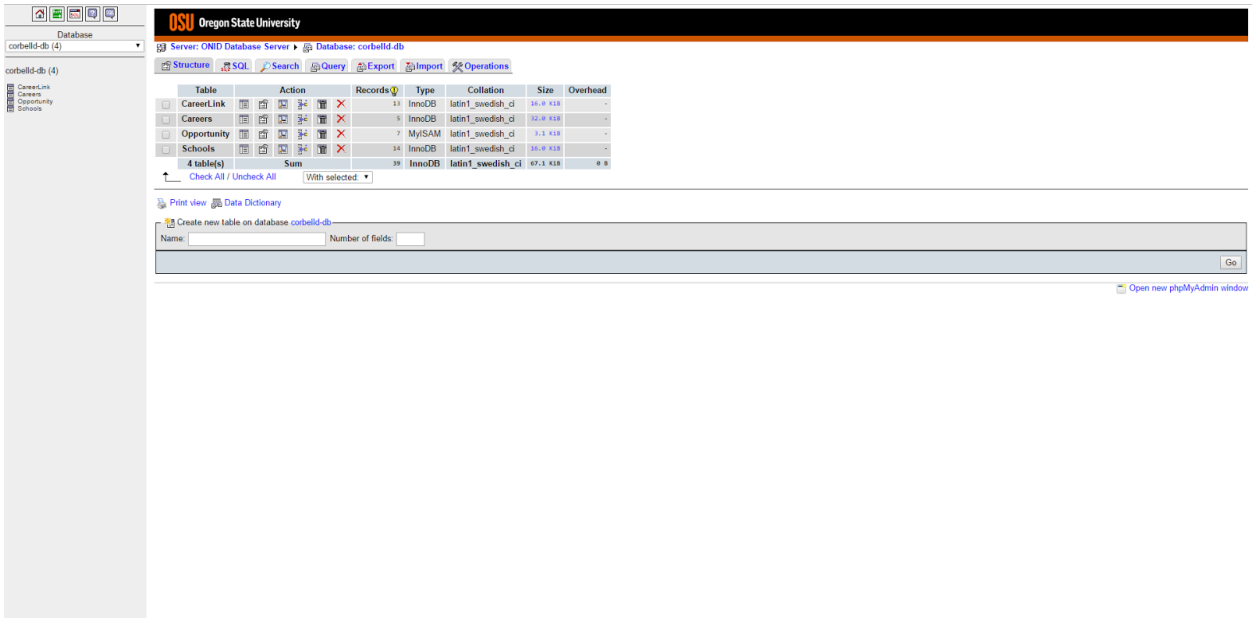


Name	Size	Changed	Rights	Owner
..		5/15/2017 6:42:09 PM	rwxr-xr-x	corbelld
css		5/1/2017 3:47:36 PM	rwxrwxrwx	corbelld
Database_Maintenance		5/1/2017 8:15:49 PM	rwxr-xr-x	corbelld
fonts		5/1/2017 3:47:34 PM	rwxr-xr-x	corbelld
img		5/1/2017 3:47:34 PM	rwxrwxrwx	corbelld
js		5/1/2017 3:47:34 PM	rwxr-xr-x	corbelld
Testing_Hold		4/30/2017 2:53:47 PM	rwxr-xr-x	corbelld
about.html	7 KB	4/30/2017 5:17:32 PM	rw-rw-r--	corbelld
careers.php	12 KB	4/30/2017 5:17:36 PM	rw-rw----	corbelld
chiropractor.php	9 KB	5/1/2017 8:11:18 PM	rw-rw----	corbelld
connectvarsHC.php	1 KB	4/30/2017 2:33:18 PM	rw-rw----	corbelld
contact.php	9 KB	5/12/2017 3:45:40 PM	rw-rw----	corbelld
dentist.php	9 KB	5/1/2017 8:11:18 PM	rw-rw----	corbelld
form-handler.php	2 KB	4/30/2017 2:33:19 PM	rw-rw----	corbelld
form-handler-nodb.php	1 KB	4/30/2017 2:33:19 PM	rw-rw----	corbelld
healthcaresocialworke...	9 KB	5/1/2017 8:11:18 PM	rw-rw----	corbelld
index.html	9 KB	5/1/2017 7:55:30 PM	rw-rw-r--	corbelld
medicalservicemanag...	9 KB	5/1/2017 8:11:18 PM	rw-rw----	corbelld
optometrist.php	9 KB	5/1/2017 7:59:36 PM	rw-rw----	corbelld
pharmacist.php	9 KB	5/1/2017 8:11:18 PM	rw-rw----	corbelld
physician.php	9 KB	5/1/2017 8:11:18 PM	rw-rw----	corbelld
resources.html	5 KB	4/30/2017 5:17:27 PM	rw-rw-r--	corbelld

5. Database Setup

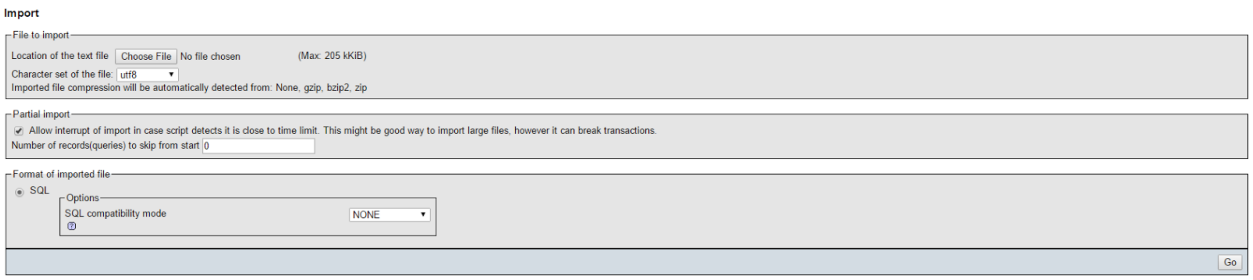
Setup Files……

If the database in use implementa phpMyAdmin as an interface, the display may look similar to the image below:



Upon looking closely it can be seen that an Import tab is available to assist in database setup.

Within our Project files on GitHub, there is a folder labeled “Database Setup” and within this directory exists two database setup files: “DB Empty.sql” and ”DB Populated.sql” depending on how you would like to setup the initial database either of these files may be used. The empty sql file only generates the tables which will hold future information, while the populated file contains the information currently implemented into the website as an example.



After choosing the desired file the user must simply navigate to the import page, select the file, and click “Go” in the lower right-hand corner.

Connection Variables…..……

There are two required files that are needed to have in order to connect to the database. One is called the **dbConfig.php** and the other is called **connectvarsEECS.php.**

dbConfig.php is a file which is used to connect inputted information to the database. **connectvarsEECS.php** is a file that connects information to be drawn from the database to the main website.

The PHP files consist of four required variables: dbHost, dbUsername, dbPassword, and dbName.

- dbHost is the name of the web server
- dbUsername is the username that you need to log into the database
- dbPassword is the password that you need to log into the database
- dbName is the name of the database within the server

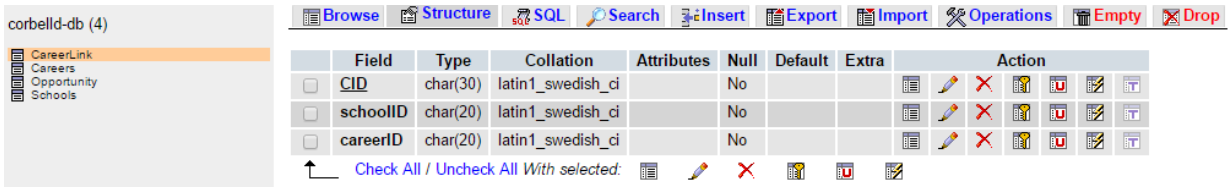
Each of these should be acquired through setting up a working database solution.

Deleting Information…..……

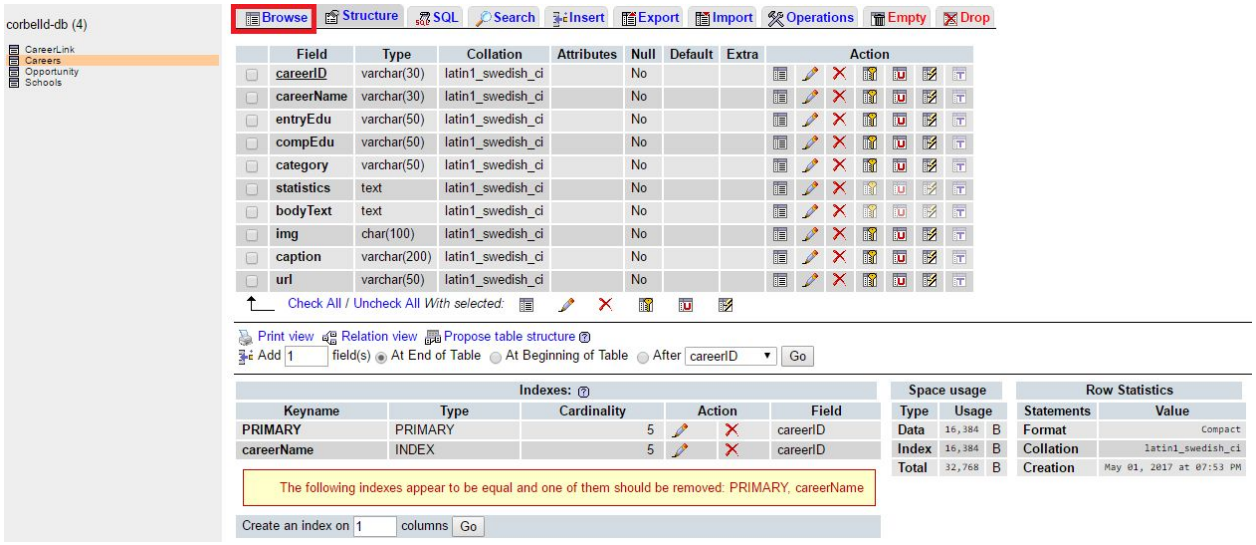
As the database deletion PHP page has not been completed, it may become necessary to clear data from the database manually.

Method 1:

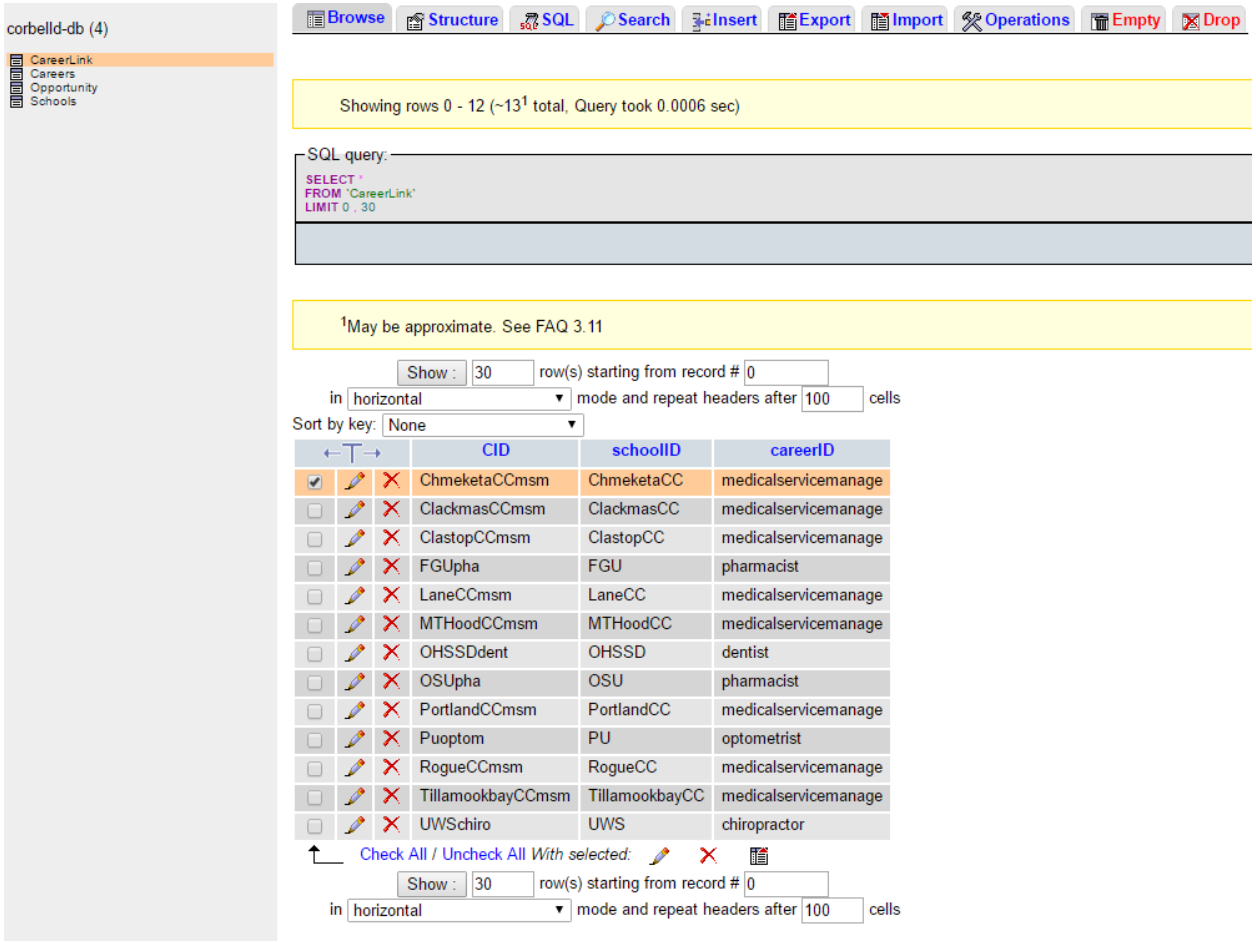
1. The first step will be to select a data table from the left-hand side of the screen



2. The second step is to select the “Browse” tab in the table options bar. It is imperative that this navigation is selected as clicking on a table will bring the user to the table structure tab by default. Deleting from the table structure could render the data table unable to function.



3. Once the user is at the Browse screen, they may select the desired row and click on the red "X" in the third column. This will remove the row from the database.



Method 2:

1. There also exists a method to delete all rows from a database. From any table, the user may select “Empty” from the table menu and this will clear all existing rows. The user should not, however, select the “Drop” button as this will clear the existence of the table entirely and the implementation may become unusable.

6. Website Functionality

The primary elements of our website scale to screen size, however should an administrator wish to change the appearance of certain features, certain lines of code will require editing.

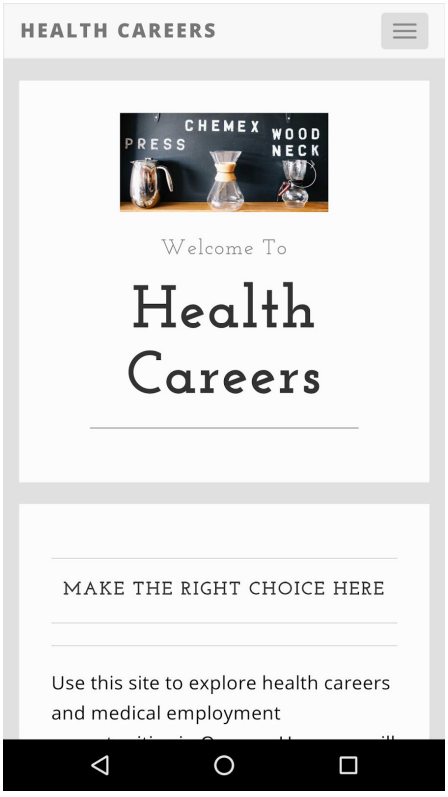
Navigation Bar……

The responsive navigation bar used in our website utilizes our Bootstrap implementation. Certain class tags are necessary for it to operate at full functionality and any additions to the full screen size navigation bar will also be added to the navigation bar for the mobile application's drop down list.

```
<!-- Navigation -->
<nav class="navbar navbar-default" role="navigation">
    <div class="container">
        <!-- Brand and toggle get grouped for better mobile display -->
        <div class="navbar-header">
            <button type="button" class="navbar-toggle" data-toggle="collapse" data-target="#bs-example-navbar-collapse-1">
                <span class="sr-only">Toggle navigation</span>
                <span class="icon-bar"></span>
                <span class="icon-bar"></span>
                <span class="icon-bar"></span>
            </button>
            <!-- navbar-brand is hidden on larger screens, but visible when the menu is collapsed -->
            <a class="navbar-brand" href="index.html">Health Careers</a>
        </div>
        <!-- Collect the nav links, forms, and other content for toggling -->
        <div class="collapse navbar-collapse" id="bs-example-navbar-collapse-1">
            <ul class="nav navbar-nav">
                <li>
                    <a href="index.html">Home</a>
                </li>
                <li>
                    <a href="about.html">About</a>
                </li>
                <li>
                    <a href="careers.php">Careers</a>
                </li>
                <li>
                    <a href="contact.php">Contact</a>
                </li>
                <li>
                    <a href="resources.html">Resources</a>
                </li>

            </ul>
        </div>
```

Shown above is the HTML implementation of our standard navigation bar. As shown all links are shown between <li> list tags with an <a href> hyperlink URL tag.



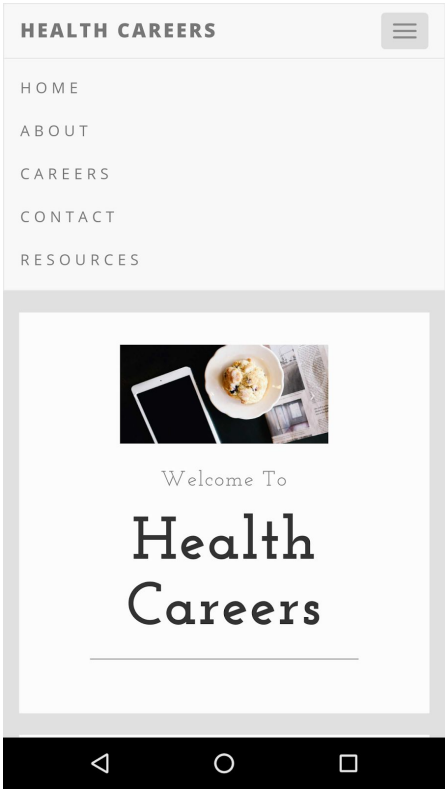
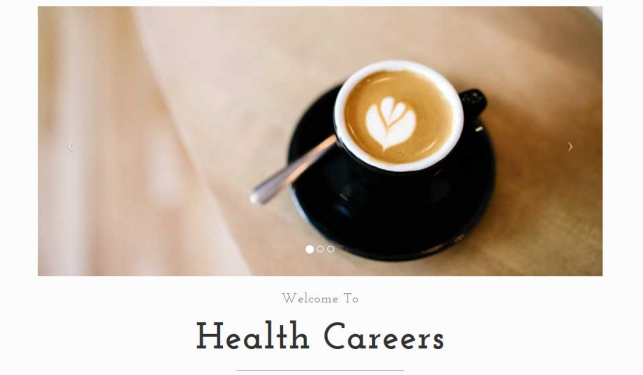


Image Carousel……

In order to change the links or images present in the home page's rotating image carousel certain changes to the HTML code must be made. As depicted below on lines 94, 97 and 100, the destination URL can be changed via the **href** link and the image displayed can be changed via the **src** attribute. Additional images can be added by adding new ** ** tags containing similar structure.



```
<div id="carousel-example-generic" class="carousel slide">
    <!-- Indicators -->
    <ol class="carousel-indicators hidden-xs">
        <li data-target="#carousel-example-generic" data-slide-to="0" class="active"></li>
        <li data-target="#carousel-example-generic" data-slide-to="1"></li>
        <li data-target="#carousel-example-generic" data-slide-to="2"></li>
    </ol>

    <!-- Wrapper for slides -->
    <div class="carousel-inner">
        <div class="item active">
            <a href="careers.php"><img class="img-responsive img-full"  src="img/slide-1.jpg" alt=""></a>
        </div>
        <div class="item">
            <a href="contact.php"><img class="img-responsive img-full" src="img/slide-2.jpg" alt=""></a>
        </div>
        <div class="item">
            <a href="about.html"><img class="img-responsive img-full" src="img/slide-3.jpg" alt=""></a>
        </div>
    </div>

    <!-- Controls -->
    <a class="left carousel-control" href="#carousel-example-generic" data-slide="prev">
        <span class="icon-prev"></span>
    </a>
    <a class="right carousel-control" href="#carousel-example-generic" data-slide="next">
        <span class="icon-next"></span>
    </a>
</div>
```

HTML Page Changes……

Heading Filler:

Information to fill the current header had not been decided upon at the time of development and as such changing this information in existing HTML and PHP files as well as within the /Database Maintenance/template.php file is recommended early on before new pages are generated.

1. The necessary changes should be made in line 43 for most files found at the beginning of the body tag and above the navigation bar. Changing the line from “[Filler Information]” to the desired text should suffice.

```
<body>

    <div class="brand"><a href ="index.html" style="text-decoration:none; color: #404040"> <img src= "img/logo.png" height="120" width="120" hspace="30" /> Oregon Health Science Careers</a></div>
    <div class="address-bar">[Filler Information]</div>

    <!-- Navigation -->
```

External Resources Page:

Our external resources table was implemented using HTML coding.

1. Duplicate lines 91-94 for an example setup

2. Change the tag in line 92 from a href=”#” to a href=”<desired URL link>” as well as the following resource title

3. Change the resource description in line 93.

```
82          <table class="table table-hover">
83              <caption><h4>External Resources</h4></caption>
84              <thead>
85                  <tr>
86                      <th></th>
87                      <th></th>
88                  </tr>
89              </thead>
90              <tbody>
91                  <tr>
92                      <td><a href="#">Example Resource</a></td>
93                      <td style="padding-right: 20%">Example Description of Example Resource</td>
94                  </tr>
95                  <tr>
96                      <td ><a href="#">Example Resource 2</a></td>
97                      <td>Example Description of Example Resource 2</td>
98                  </tr>
99              </tbody>
00              </table>
```

About Page:

In order to change the images and names present at the bottom of the about page only requires changing the image sources present on lines 112, 118, and 124 of the about.html file and the corresponding names and descriptions.

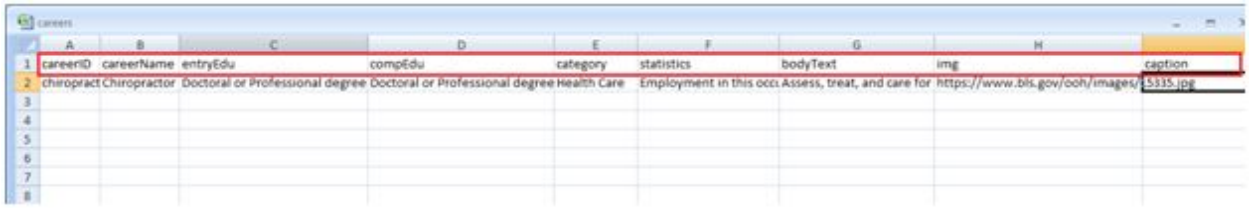
```
102         <div class="row">
103             <div class="box">
104                 <div class="col-lg-12">
105                     <hr>
106                     <h2 class="intro-text text-center">Our
107                         <strong>Team</strong>
108                     </h2>
109                     <hr>
110                 </div>
111                 <div class="col-sm-4 text-center">
112                     <img class="img-responsive" src="http://placehold.it/750x450" alt="">
113                     <h3>John Smith
114                         <small>Job Title</small>
115                     </h3>
116                 </div>
117                 <div class="col-sm-4 text-center">
118                     <img class="img-responsive" src="http://placehold.it/750x450" alt="">
119                     <h3>John Smith
120                         <small>Job Title</small>
121                     </h3>
122                 </div>
123                 <div class="col-sm-4 text-center">
124                     <img class="img-responsive" src="http://placehold.it/750x450" alt="">
125                     <h3>John Smith
126                         <small>Job Title</small>
127                     </h3>
128                 </div>
129                 <div class="clearfix"></div>
130             </div>
131         </div>
```

7. User Guide for Uploading CSV Files

To upload data or information into the database, you must create or to have the 4 main required spreadsheets. The 4 spreadsheets are named **Careers, Opportunity, Schools**, and **CareerLink.** Below are the steps that need to be followed in order to import data or information into the database successfully. Create 4 spreadsheets name Careers.csv, Opportunity.csv, Schools.csv, and CareerLink.csv. **If there is not information existing in the Careers, Opportunity, and CareerLinks tables for any specific career, it's information will not be displayed properly if at all on the desktop site.** Although the key upload features of this functionality are complete, this system was not a part of our designed software requirements and as such only the beginning stages of the Delete CSV page have been implemented due to time constraints. The majority of table deletion features should be handled through the database service's primary interface as seen in our Database Setup section.

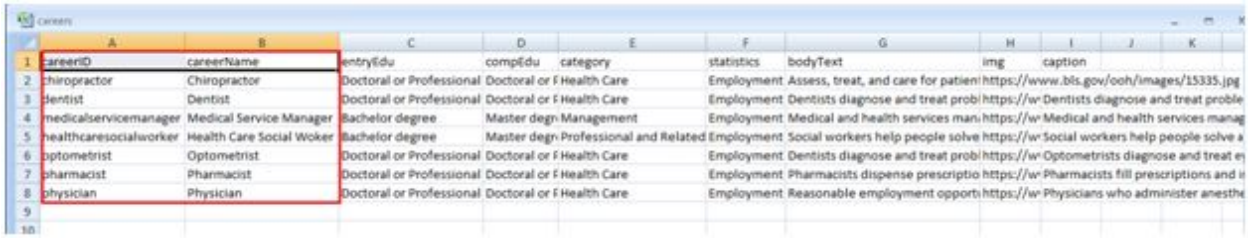
7.1 Guideline for Importing Data Into Careers.csv

1. In Careers.csv, input column names as individual row as follow: **careerID, careerName, entryEdu, compEdu, category, statistics, bodyText, img, and caption**. It is very important that each column names must be valid without spelling or capitalization error.



	A	B	C	D	E	F	G	H	I
1	careerID	careerName	entryEdu	compEdu	category	statistics	bodyText	img	caption
2	chiropract	Chiropractor	Doctoral or Professional degree	Doctoral or Professional degree	Health Care	Employment in this occ	Assess, treat, and care for	https://www.bls.gov/ooh/images/	15335.jpg

2. After 9 column names are accurately inserted, input a memorable word correlated to each career name in the careerID column. careerID must be unique and distinct from other careerID in order to be valid. Below is the example of many careerID relates to the careerName and distinct from other careerID.



	A	B	C	D	E	F	G	H	I
1	careerID	careerName	entryEdu	compEdu	category	statistics	bodyText	img	caption
2	chiropractor	Chiropractor	Doctoral or Professional	Doctoral or F	Health Care	Employment	Assess, treat, and care for patien	https://www.bls.gov/ooh/images/15335.jpg	
3	dentist	Dentist	Doctoral or Professional	Doctoral or F	Health Care	Employment	Dentists diagnose and treat prob	https://w	Dentists diagnose and treat proble
4	medicalservicemanager	Medical Service Manager	Bachelor degree	Master degr	Management	Employment	Medical and health services man	https://w	Medical and health services manag
5	healthcaresocialworker	Health Care Social Woker	Bachelor degree	Master degr	Professional and Related	Employment	Social workers help people solve	https://w	Social workers help people solve a
6	optometrist	Optometrist	Doctoral or Professional	Doctoral or F	Health Care	Employment	Dentists diagnose and treat prob	https://w	Optometrists diagnose and treat e
7	pharmacist	Pharmacist	Doctoral or Professional	Doctoral or F	Health Care	Employment	Pharmacists dispense prescriptio	https://w	Pharmacists fill prescriptions and i
8	physician	Physician	Doctoral or Professional	Doctoral or F	Health Care	Employment	Reasonable employment opport	https://w	Physicians who administer anesthe
9									
10									

3. The next important aspect that needed to be inserted correctly is a column name called **category**. There are only three types within the category related to the career name: **Health**

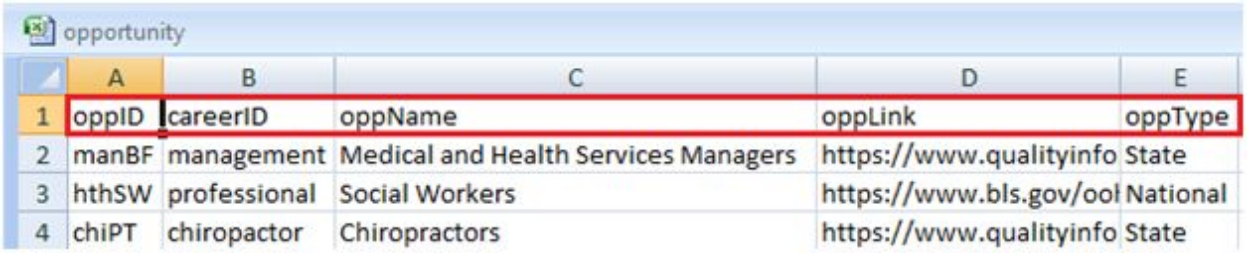
Care, Management, or **Professional and Related.** Each of these categories will determine the area in which the careers will display on the Career web page.

4. The last required aspect that needs to be followed is the **img** name column. This column records one image related to the career. It is highly recommended that the image is in JPG or PNG file.

5. The rest of the information within the columns can be freely input however you desired. This information won't have any restriction and will be recorded willingly.

7.2 Guidelines for Importing Data Into Opportunity.csv

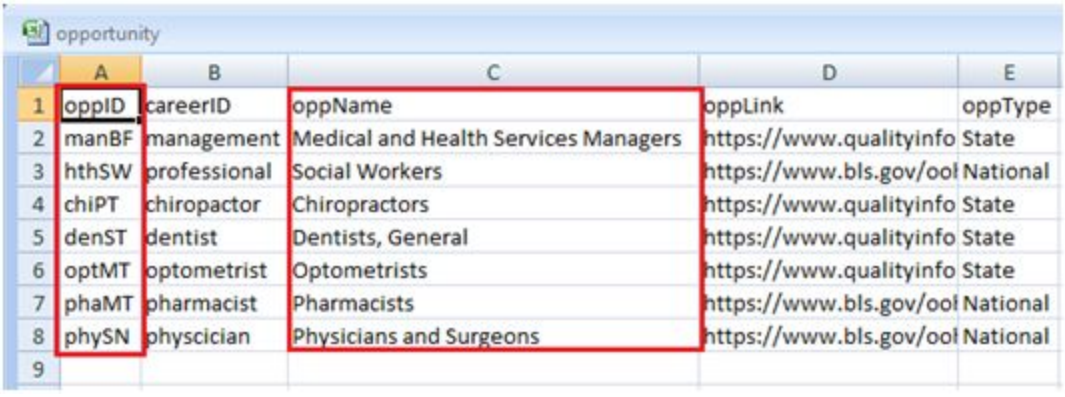
1. In Opportunity.csv, input column names as individual row as follow: **oppID, careerID, oppName, oppLink,** and **oppType**. It is very important that each column names must be valid without spelling or capitalization error.


opportunity

	A	B	C	D	E
1	oppID	careerID	oppName	oppLink	oppType
2	manBF	management	Medical and Health Services Managers	https://www.qualityinfo	State
3	hthSW	professional	Social Workers	https://www.bls.gov/ool	National
4	chiPT	chiropactor	Chiropractors	https://www.qualityinfo	State

2. After 5 column names are accurately inserted, input a memorable word correlated to each opportunity name in the oppID column. oppID must be unique and distinct from other oppID in order to be valid. Also, the each careerID must exist in the Career.csv file. The purpose of it is to make sure the database have each career correspond to its opportunity information.

3. Below is the example of many oppID relates to the oppName and distinct from other oppID.


opportunity

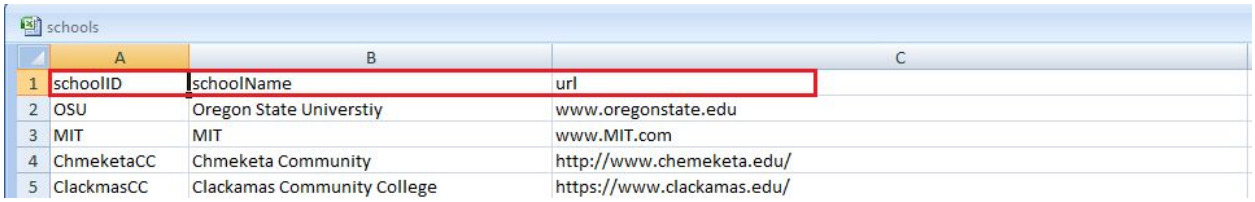
	A	B	C	D	E
1	oppID	careerID	oppName	oppLink	oppType
2	manBF	management	Medical and Health Services Managers	https://www.qualityinfo	State
3	hthSW	professional	Social Workers	https://www.bls.gov/ool	National
4	chiPT	chiropactor	Chiropractors	https://www.qualityinfo	State
5	denST	dentist	Dentists, General	https://www.qualityinfo	State
6	optMT	optometrist	Optometrists	https://www.qualityinfo	State
7	phaMT	pharmacist	Pharmacists	https://www.bls.gov/ool	National
8	phySN	physcician	Physicians and Surgeons	https://www.bls.gov/ool	National
9					

4. In the oppType column, the opportunity type can either be state or national. In the oppLink

column, the information will be in website links as the picture shown above.

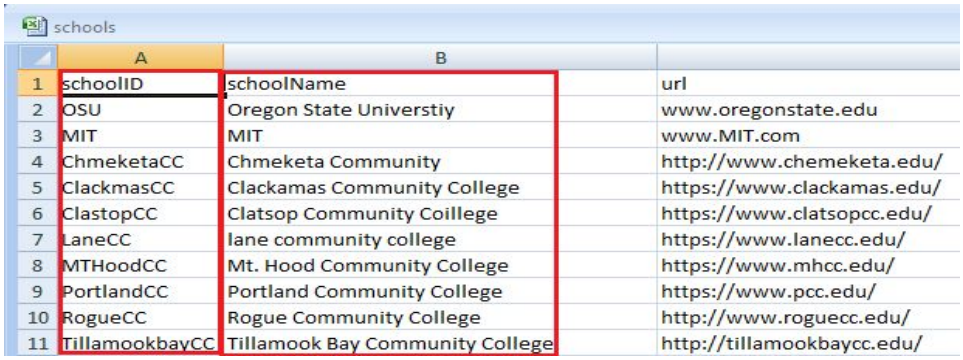
7.3 Guideline for importing Data Into Schools.csv

1. In Schools.csv, input column names as individual row as follow: **schoolID, schoolName,** and **url**. It is very important that each column names must be error-free without spelling or capitalization error.



	A	B	C
1	schoolID	schoolName	url
2	OSU	Oregon State Universtiy	www.oregonstate.edu
3	MIT	MIT	www.MIT.com
4	ChmeketaCC	Chmeketa Community	http://www.chemeketa.edu/
5	ClackmasCC	Clackamas Community College	https://www.clackamas.edu/

2. After 3 column names are accurately inserted, input a memorable initials correlated to each university or college name in the schoolID column. schoolID should be unique and distinct from other schoolID in order to be valid. Below is the an example of how it should be done.

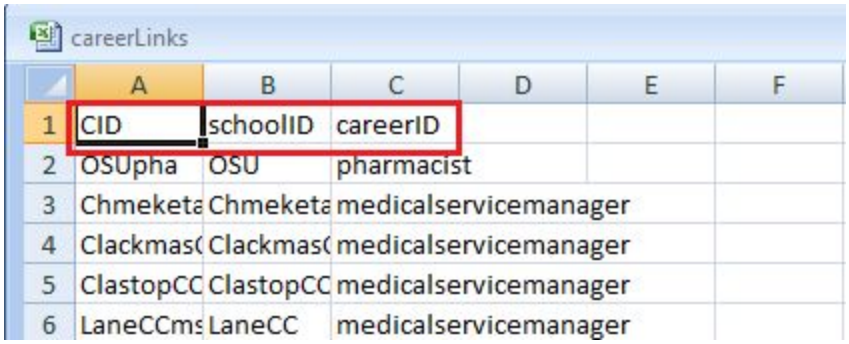


	A	B	
1	schoolID	schoolName	url
2	OSU	Oregon State Universtiy	www.oregonstate.edu
3	MIT	MIT	www.MIT.com
4	ChmeketaCC	Chmeketa Community	http://www.chemeketa.edu/
5	ClackmasCC	Clackamas Community College	https://www.clackamas.edu/
6	ClastopCC	Clatsop Community Coillege	https://www.clatsopcc.edu/
7	LaneCC	lane community college	https://www.lanecc.edu/
8	MTHoodCC	Mt. Hood Community College	https://www.mhcc.edu/
9	PortlandCC	Portland Community College	https://www.pcc.edu/
10	RogueCC	Rogue Community College	http://www.roguecc.edu/
11	TillamookbayCC	Tillamook Bay Community College	http://tillamookbaycc.edu/

3. In the url columns each row should have a website or link relating to the university or college.

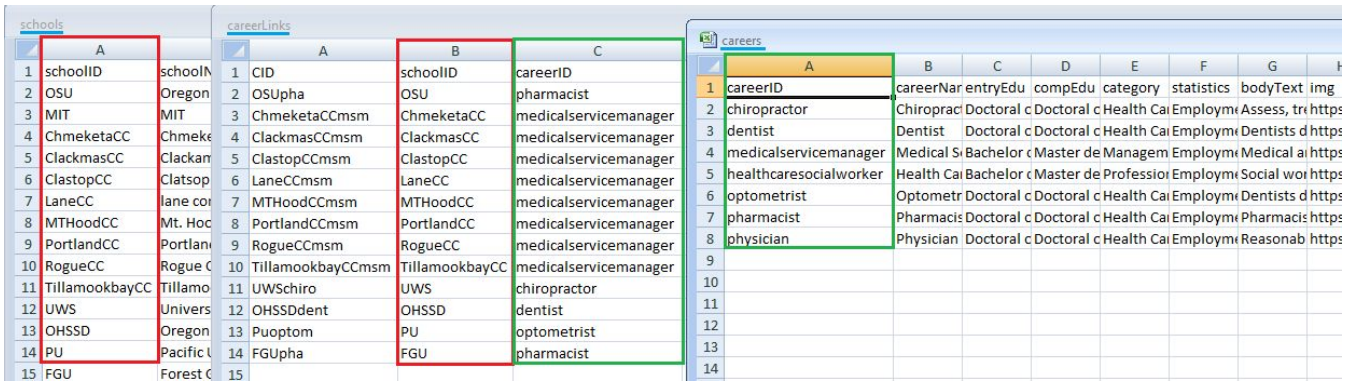
7.4 Guideline for Importing Data Into careerLink.csv

1. In careerLink.csv, input column names as individual row as follow: **CID, schoolID,** and **careerID**. It is very important that each column names must be error-free without spelling or capitalization error.



	A	B	C	D	E	F
1	CID	schoolID	careerID			
2	OSUpha	OSU	pharmacist			
3	Chmeketa	Chmeketa	medicalservicemanager			
4	ClackmasC	ClackmasC	medicalservicemanager			
5	ClastopCC	ClastopCC	medicalservicemanager			
6	LaneCCms	LaneCC	medicalservicemanager			

2. After the 3 column names are accurately inserted, input a memorable initials or word in the CID column. Also, the word or initials in schoolID and careerID columns must exist as the ones in the Schools.csv and Careers.csv files. Below is an example of how the careerLink.csv spreadsheet relates to schools.csv and Careers.csv file.



	A	B	C
1	schoolID	schoolN	
2	OSU	Oregon	
3	MIT	MIT	
4	ChmeketaCC	Chmeke	
5	ClackmasCC	Clackan	
6	ClastopCC	Clatsop	
7	LaneCC	lane cor	
8	MTHoodCC	Mt. Hoc	
9	PortlandCC	Portlan	
10	RogueCC	Rogue C	
11	TillamookbayCC	Tillamo	
12	UWS	Univers	
13	OHSSD	Oregon	
14	PU	Pacific U	
15	FGU	Forest C	

	A	B	C
1	CID	schoolID	careerID
2	OSUpha	OSU	pharmacist
3	ChmeketaCCmsm	ChmeketaCC	medicalservicemanager
4	ClackmasCCmsm	ClackmasCC	medicalservicemanager
5	ClastopCCmsm	ClastopCC	medicalservicemanager
6	LaneCCmsm	LaneCC	medicalservicemanager
7	MTHoodCCmsm	MTHoodCC	medicalservicemanager
8	PortlandCCmsm	PortlandCC	medicalservicemanager
9	RogueCCmsm	RogueCC	medicalservicemanager
10	TillamookbayCCmsm	TillamookbayCC	medicalservicemanager
11	UWSchiro	UWS	chiropractor
12	OHSSDdent	OHSSD	dentist
13	Puoptom	PU	optometrist
14	FGUpha	FGU	pharmacist
15			

	A	B	C	D	E	F	G	H
1	careerID	careerNar	entryEdu	compEdu	category	statistics	bodyText	img
2	chiropractor	Chiroprac	Doctoral c	Doctoral c	Health Ca	Employme	Assess, tr	https
3	dentist	Dentist	Doctoral c	Doctoral c	Health Ca	Employme	Dentists d	https
4	medicalservicemanager	Medical S	Bachelor c	Master de	Managem	Employme	Medical a	https
5	healthcaresocialworker	Health Ca	Bachelor c	Master de	Professior	Employme	Social wo	https
6	optometrist	Optometr	Doctoral c	Doctoral c	Health Ca	Employme	Dentists d	https
7	pharmacist	Pharmacis	Doctoral c	Doctoral c	Health Ca	Employme	Pharmacis	https
8	physician	Physician	Doctoral c	Doctoral c	Health Ca	Employme	Reasonab	https
9								
10								
11								
12								
13								
14								

3. Lastly the CID should be unique and distinct from other CID in order to be valid. Similar to other "ID", they are the primary key feature for the database.

After the four required spreadsheets are created, you should able to go on these following web links and upload the individual file into the database. Each web link is responsible for uploading specific spreadsheet. It is important that you must upload the spreadsheets in the following order: Careers.csv, Opportunity.csv, Schools.csv, CareerLink.csv.

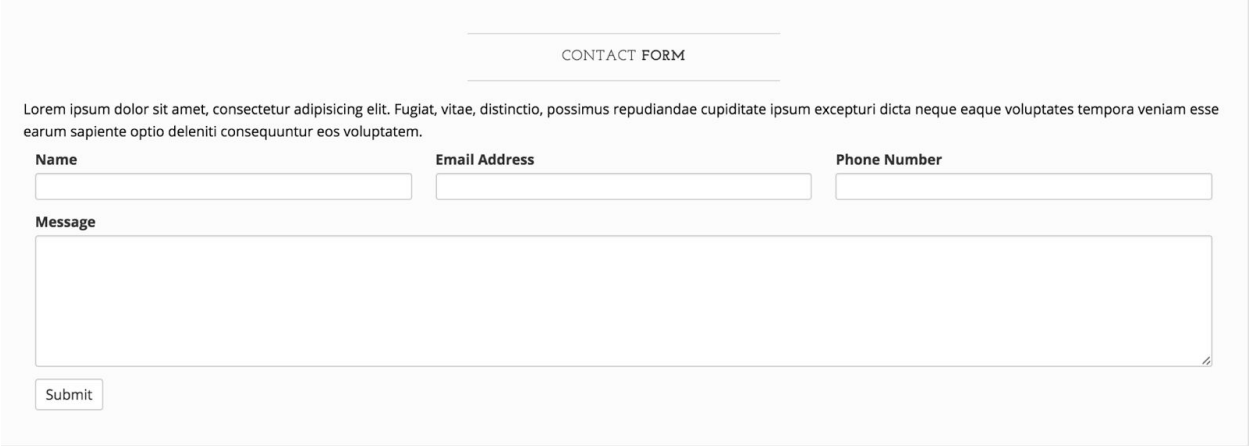
- To upload a spreadsheet on Careers, use the following web link: http://web.engr.oregonstate.edu/~yeja/web/capstone41/Desktop_Site/index.php
- To upload a spreadsheet on Opportunity, use the following web link: http://web.engr.oregonstate.edu/~yeja/web/capstone41/Desktop_Site/indexOpportunity.php
- To upload a spreadsheet on Schools, use the following web link: http://web.engr.oregonstate.edu/~yeja/web/capstone41/Desktop_Site/indexSchools.php
- To upload a spreadsheet on careerLink, use the following web link: http://web.engr.oregonstate.edu/~yeja/web/capstone41/Desktop_Site/indexCareerLinks.php

Each link would provide a simple button where you could click on and upload a required file. After the file is being uploaded, a message in green would be in display to determine if the file is being uploaded correctly or not. When successfully uploaded, the information will be shown on the same webpage.

8. Email Contact Function

On the Contact page of our website, users can submit support emails to a by typing their basic information, and the email will directly go to website administrator's desired email address.

By reviewing the email, website administrator could just go to their email and read the message.

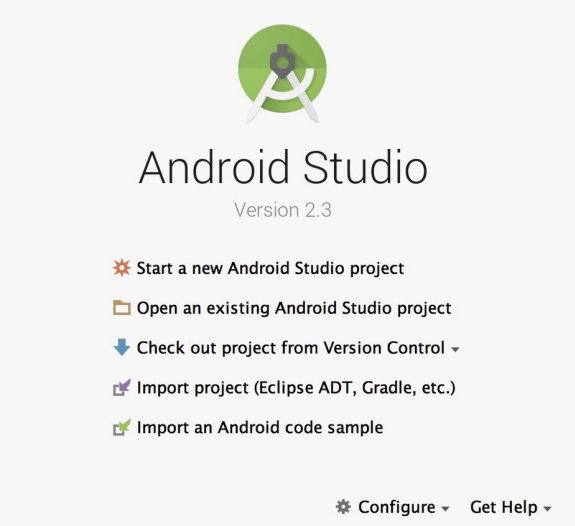


If the administrator would like to change the destination email address in the future, they may access the "Contact. PHP" file and in line 13, change the desired email address at anytime.

```
11  //prepare for email msg
12  $from = $_POST['firstlastname'];
13  $to = 'fengzi@oregonstate.edu';
14  $subject = ' "[".$sitename."]" inquiry';
```

9. Android Studio

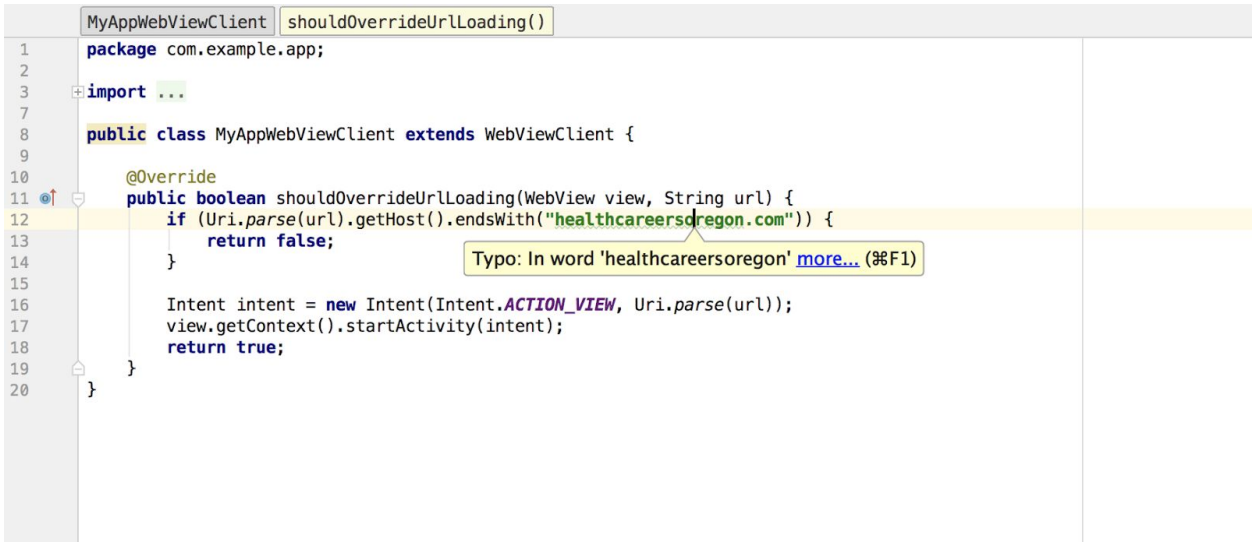
Firstly, Administrator need to download a Android Studio and open the Android Studio. In the welcome page, administrator need to open the "Import Project" to open the exist files:



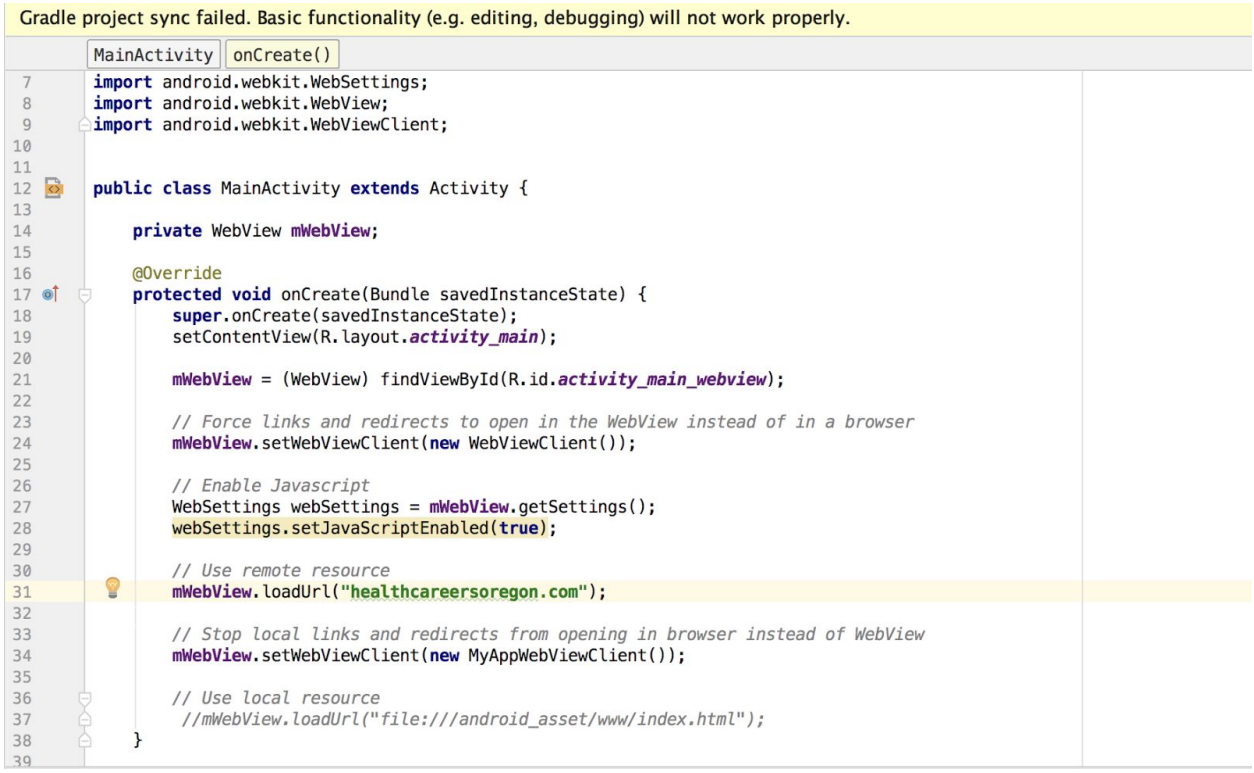
By entering the existing file, user open the files and it will open 4 files together in the Android Studio.

In the android studio, we used a web page to nest in the Android Studio program, there are four files in the Android Studio, web administrator could go to "MyAppWebViewClient.Java" files:

And in the file, administer could go to line 12 and read we use our website address and nest into this android program:

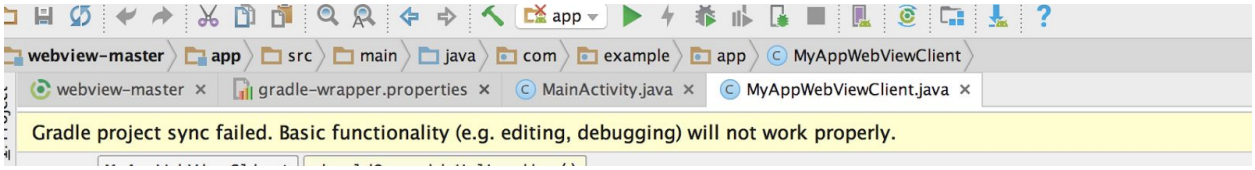


Besides, user need to open MainActivity.Java file and type the address again in line 32:



As a most effective and popular android program developing tool, if user change something in

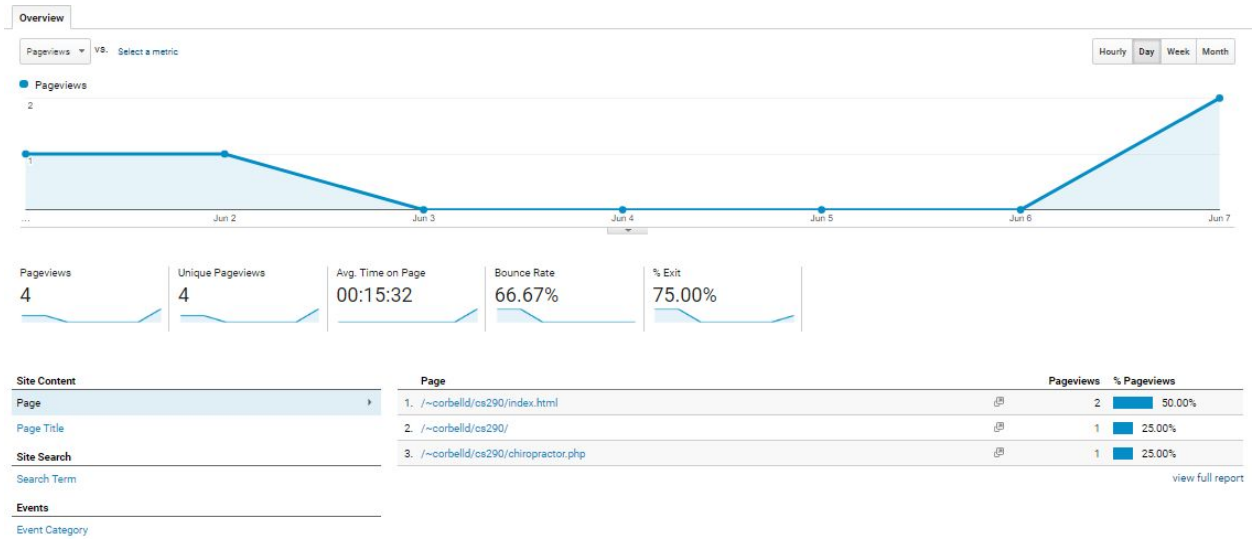
the files, for example, administrator change the website address, user could use the Android Studio Emulator to test:



By clicking the “Play” and program will open the emulator directly, and user could play and test the app in the emulator, it is same as the real Android Phone.

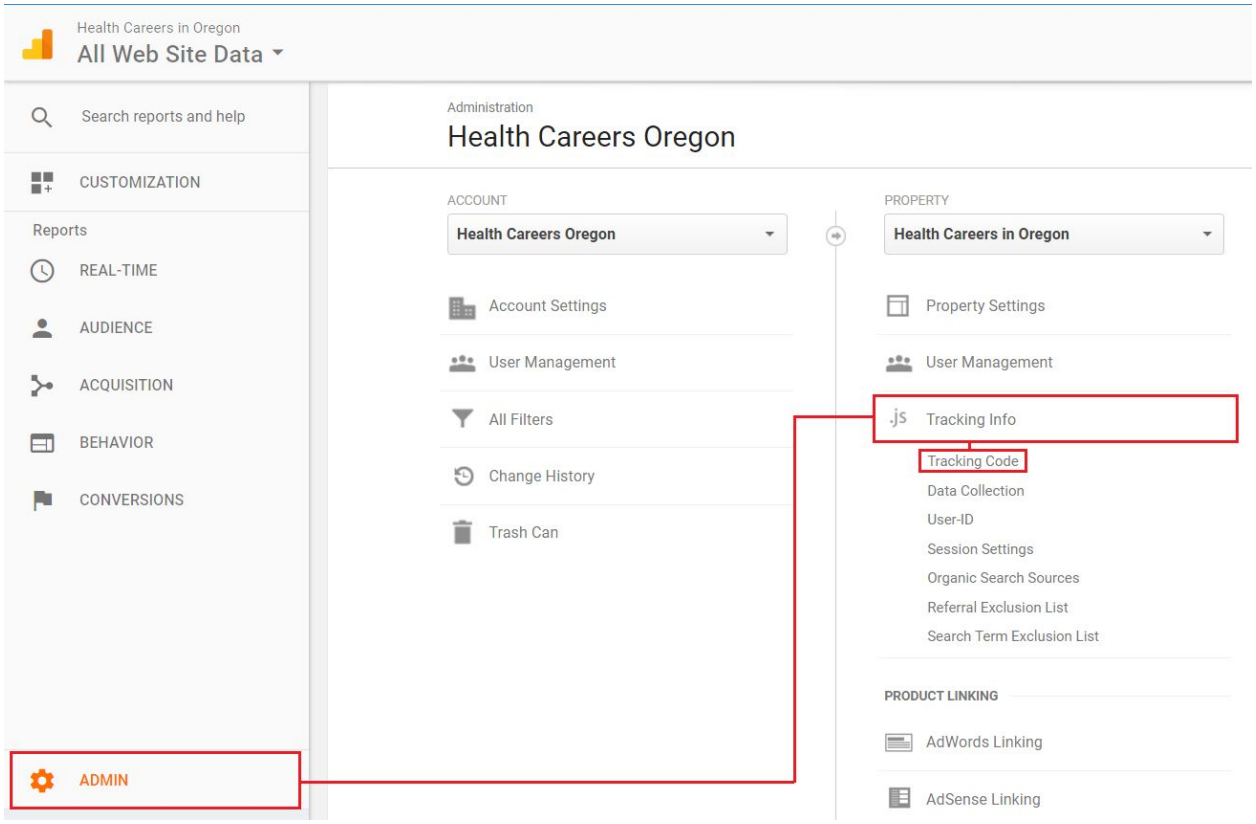
10. Google Analytics

Google Analytics is a web analytics service that tracks and reports website traffic, designed to be useful for businesses and corporations that need to know customer's activities. It is an easy and powerful tool that most company should use. To get access into Google Analytics, one simply makes an account. For the purpose of this guideline, we have created an account for this website. After successfully accessing into Google Analytic using the account, there are many features that can be seem or access for observation. Five features, Real-Time, Audience, Acquisition, Behavior, and Conversions, can be accessed are on the left hand side of the website. The main feature that would be useful for the website is to the Real-Time tab which gives the user the overview of who, where, and when our audience goes on the website. Simply clicking on a sub-category under each navigation would provide valuable data. Its advance and comprehensive data would help user improve any issue or feature on the website if needed to. In addition to knowing the audience, the Behavior tab, which is underneath the Audience tab, shows an overview of the actions or behavior of the audience who goes on the website.



Here it shows which web pages get visited the most and the duration of view on each page. Much functionality can be observed in Google Analytic, a full guideline of usages and purposes on every feature can found on the website.

The ability to track this site information is implemented through a .js script which can be accessed by navigating through the admin panel of the Google Analytics page and clicking on tracking code as shown below. This code is already implemented into the career information page template, but may need to be copy and pasted onto any new webpages created without using this template.

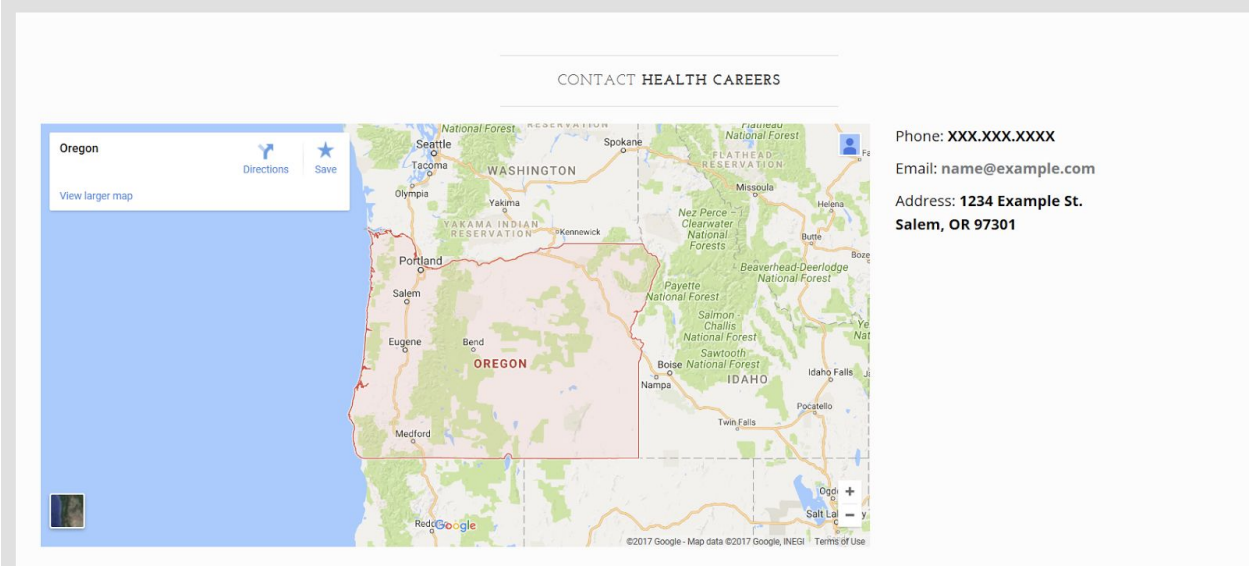


Shown below is the aforementioned tracking script being used in lines 185-191 of the homepage. index.html.

```
183     <script>
184
185     (function(i,s,o,g,r,a,m){i['GoogleAnalyticsObject']=r;i[r]=i[r]||function(){
186        (i[r].q=i[r].q||[]).push(arguments)},i[r].l=1*new Date();a=s.createElement(o),
187           m=s.getElementsByTagName(o)[0];a.async=1;a.src=g;m.parentNode.insertBefore(a,m)
188     })(window,document,'script','https://www.google-analytics.com/analytics.js','ga');
189
190     ga('create', 'UA-97186407-1', 'auto');
191     ga('send', 'pageview');
```

11. Google Maps

In the contact page, user could use the Google Map to locate the office address:

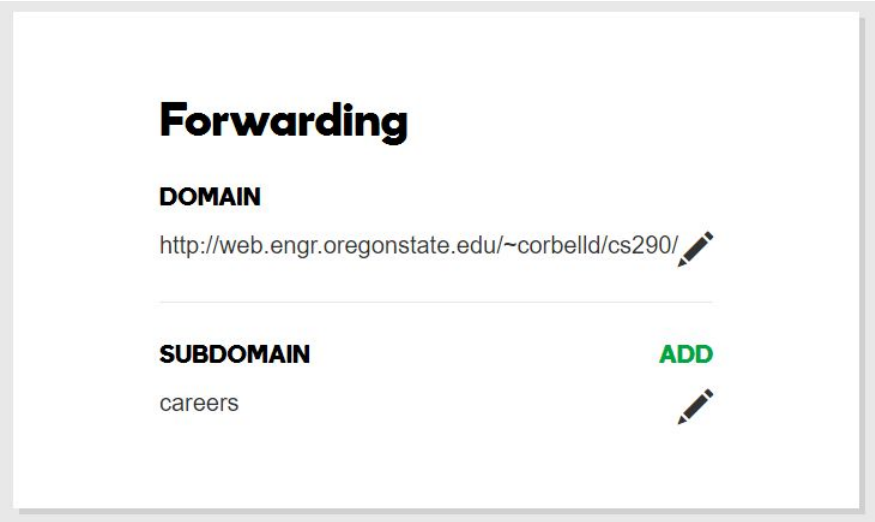


but if user want to change the Map address, website administrator need to go to “Contact. PHP” files, and go to line 118 and read the instruction to change the address. But if Adminstrator want to delete the map for any reason, administrator could just delete line 118 to line 119.

```
116             </div>
117             <div class="col-md-8">
118                 <!-- Embedded Google Map using an iframe - to select your location find it on Google maps and paste the
                    link as the iframe src. If you want to use the Google Maps API instead then have at it! -->
119                 <iframe width="100%" height="500" frameborder="0" scrolling="no" marginheight="0" marginwidth="0" src="
                    https://www.google.com/maps/embed?pb=!1m18!1m12!1m3!1d5872486.397637887!2d-125.02658570110478!3d44.0539319
                    78440524!2m3!1f0!2f0!3f0!3m2!1i1024!2i768!4f13.1!3m3!1m2!1s0x54936e7c9b9f6a55%3A0x7d4c65db7a0bb876!2sOrego
                    n!5e0!3m2!1sen!2sus!4v1488354198531"></iframe>
```

12. Domain Name hosting

The domain name currently in use is: HealthCareersOregon.com, however, this domain is currently licensed to Art Witkowski through GoDaddy.com. Through this service changing the forwarding address away from our Oregon State Webserver, which will get removed once our development team leaves the university, requires navigating through the menus in order of My Domains → <Desired New Domain Name> → DNS settings → Forwarding and then changing the URL listed.



13. Developer Contact Information

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