

Guidance for the extension of Doc-U-Vent

1. **Introduction.** This guide has been prepared for use by anyone who wishes to extend the functionality or personalize the Doc-U-Vent application. Although a technical background is not required, it is highly recommended. Contained in this guide will be everything that you should need to make Doc-U-Vent your own.
2. **Requirements.** Access to a computer with a command line is required. Some working knowledge of programming languages such as; Javascript, HTML, and CSS is also highly recommended.

3. Preparation.

- I. Create a project folder that will be used to contain the Doc-U-vent application. The folder can be named anything that you would like. The name doc-u-vent was used as an example.

```
mkdir doc-u-vent
```

- II. The project can be found at <https://github.com/wfry1994/Doc-U-Vent>. In order to create a local copy of the project you will need to run the following command inside the directory that was created: git clone <https://github.com/wfry1994/Doc-U-Vent>

```
git clone https://github.com/wfry1994/Doc-U-Vent
```

- III. Doc-u-vent was built in Angular 6. Follow this link and complete the necessary steps to downloading this version of Angular. This would be a good time to upgrade the project to whatever the current version of Angular happens to be, and fixing all of the breaking changes as a part of extending this application. This ensures that the application will be up to date with things such as security. **Here is the link to download and setup Angular 6:** <https://angular.io/guide/quickstart>

- IV. The next step is to navigate into the folder that was created when the project was cloned. **You will need to run npm install to install all of Doc-U-Vent's dependencies.** This would also be a good time to upgrade any packages that have newer versions available.

```
npm install
```

If the above steps have been completed successfully you should now have a working copy of Doc-U-Vent on your Computer!

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4. **Hosting.** In order to allow users other than yourself to have access to the application you will need to find a hosting solution for your newly created project. Firebase was used to host the original application, and was built using APIs that communicate directly with Firebase. While it is not a requirement for you to do the same it is highly recommended that you setup your own Firebase project and use it to host Doc-U-Vent. **Choosing to use another hosting solution will cause you to have to rewrite many of the data storage and retrieval methods that are utilized by Doc-U-Vent.** Creating a Firebase project is straight forward and there is documentation on the website that will assist you in creating your first Firebase project. A guide on how to setup your version of Doc-u-vent can be found at <https://github.com/angular/angularfire2/blob/master/docs/install-and-setup.md>. The only step you need to complete will be step 4. Simply use your Firebase project data to fill these fields.

5. **Hosting Pricing.** Now would be a good time to ask yourself how you would like to use Doc-U-Vent. Firebase was our choice of hosting solution because it was free for the amount of users that we would have accessing our application. If you plan on adding functionality in hopes of expanding the user base to Doc-U-Vent you will most likely incur some charges depending on the amount of users the application attracts. If you plan on only using the application within your University, and have less than 500 users that will be accessing the application on a regular basis, the hosting should be completely free. **Firebase is a very reasonable hosting solution offered by Google and pricing can be found at:** <https://firebase.google.com/pricing/>

6. **Doc-U-Vent Alterations.** Doc-U-Vent is open-sourced and comes with a MIT license. You are free to change / alter every aspect of the application as you see fit. Make sure to add yourself and any other contributors to the license. Doc-U-Vent was built with our University in mind, but that doesn't mean the application can't be personalized!

7. **Re-branding.** In this section you will learn how to update some of the application data to better fit your use case. I will not be showing screenshots of every single data item that may need to be updated, but this section will show you the process of changing items such as; color, text, and other relevant data fields that may need to be updated.

- I. **Color.** Following are a few steps to take to change the overall color scheme of Doc-U-Vent.
 1. Open the project folder in your preferred code editor.
 2. Navigate to the file named **styles.scss**
 3. Find the CSS rule **.bg-school-color**
 4. Change the background-color to anything that you would like!
 1. This change will only affect the top navigation bar and the header of the application.
 2. This step can be repeated for any color that you would like to change in the application.We tried to keep most of the coloring CSS in the main application CSS file so that a simple change would update a lot of the application at once.

```
.bg-school-color {  
  background-color: #cc0000;  
}
```

```
.bg-school-color-secondary {  
  background-color: #eee;  
  border-radius: 5px;  
}
```

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- II. **Text.** The application text has been “hard-coded” into the application and may need to be updated to fit your use-case. Following are the steps that will be needed to update this text.
1. Open any HTML file that you would like to update the text on. In this section I will provide the steps needed to update some of the more important text that needs to change, rather than text like the mission statement located on the home page.
 1. Open the project folder in your preferred code editor.
 2. Navigate to the file named **intervention-component.html**
 3. locate the form group **practiceSite**
 1. update each of these values to contain your universities practice sites. This may also be a good time to think about allowing the admin to create and update practice sites if there is any work to be done on the application. These were “hard-coded” at the time because the overall scope of our project was for our University only.
 4. The above process can be repeated to update any of the static text on any of the web pages that you would like.

```
<div class="form-group">
  <label for="practiceSite">Practice Site <span class = "required">*</span></label><br>
  <select class="form-control" [(ngModel)]="interventionModel.practiceSite" #site="ngModel" name="pract
  <option selected="selected"></option>
  <option>Places for People</option>
  <option>Volunteers in Medicine</option>
  <option>SIHF</option>
  <option>St. Elizabeth's Hospital</option>
</select>
```

8. **Conclusion.** Doc-U-Vent is free to be updated and changed however you see fit. It is suggested that to avoid extra effort on your part, that you stick to using Firebase as your hosting solution, however you are ultimately free to restructure and morph Doc-U-Vent how you see fit. There are a lot of extra features that could be added to Doc-U-Vent in the future, and this guide could help serve as the first stepping stone for a senior project in your universities' Computer Science program!