# Florida International University School of Computing and Information Sciences

Software Engineering Focus

# **INSTALLATION GUIDE**

Project Title: EnvoScholar v2.0

Team Members: Sheila Alemany, Carlos Bravo

Product Owner: Mark Finlayson, Ph.D.

Instructor and Mentor: Masoud Sadjadi, Ph.D.

Installation Guide EnvoScholar v2.0

This document provides a step-by-step instruction on how to set up development environment and deployment environment. The YouTube video (here) also goes through the steps to install and run EnvoScholar. Prior to using EnvoScholar v2.0, make sure you follow all the steps described below to ensure functionality of all features. Navigate to the nvos-scholar folder. Inside you will find two folders, nvos-scholar and user\_database\_server. These folders contain all the source code you will need. The user\_database\_server folder contains all the code for the server and the database.

# **Angular Frontend**

The nvos-scholar folder contains all the source code for the Angular frontend. Inside you will see a folder named src. Navigate to that folder. Inside the src folder, navigate to the app folder. The app folder contains all the component.ts, HTML, and CSS files. The ontology page was not created using Angular. It was created on a basic HTML page which is found in the src folder.

#### **Backend Database Server**

Inside the user\_database\_server folder, the three main folders you will be working with if you need to add/change anything in the database are the controllers, models, and routes folders. The config folder will probably stay the same, and server.js file will also probably not need anything changes/additions. The server.js file is the main file in the user\_database\_server folder.

#### **Installation Prerequisites**

- 1. NodeJS: Can be downloaded at the following link: https://nodejs.org/en/
- 2. Angular: Go to the Go into the project folder, NVOS-Scholar, and type

```
$ npm install -g @angular/cli
```

*Note:* This will allow you to run the command ng serve which runs the Angular application. Installing the program should be fairly simple. You should not have to install any libraries because the package. json files already have the libraries necessary to run the program. But just in case it does say that any libraries are missing, you can go to either the nvos-scholar folder or the user\_database\_server folder and type npm install. It will reinstall the libraries necessary. If you're on a Mac and you get any permission conflicts, do sudo npm install and type your password when prompted.

3. MongoDB: Can be installed at the following link (for both Windows and MacOS): https://www.mongodb.com/download-center/community

April 24, 2019 Page 1 of 3

Installation Guide EnvoScholar v2.0

 For Windows 10 specifically, create database directory: The first time you run EnvoScholar you need to create a database directory. Open the command prompt and navigate to the directory you want to save your database. For example, you can do

to go to the root folder in the C drive. Once you choose where you want to create your database. Run in the command prompt:

This will create the database directory.

- 4. Compass: Can be installed at the following link: https://www.mongodb.com/download-center/compass
- For off-campus access using FIU VPN: Helpful links to connect to the VPN: https://network.fiu.edu/vpn/ and https://castic.fiu.edu/main/app/core/helpguides/HowtoVPN.pdf

#### Run EnvoScholar v2.0

Open 3 terminals.

With the first terminal, navigate to the nvos-scholar folder. Run the command:

```
$ ng serve —aot
```

After this finishes compiling, open your web browser of choice and open the Angular based frontend on localhost: 4200.

Once you have this running you can connect to the VPN. The reason you need this VPN is to get access to the articles database which is being hosted from a server on FIU. If you are at FIU when running the program, you do not need to sign into the VPN because you're already on the same network.

The 2nd terminal will be used to run the MongoDB server. Run the following commands:

#### **MacOS**

If you installed MongoDB through HomeBrew (recommended) then you can simply start and stop MongoDB with the following commands, respectively.

- \$ brew services start mongodb
- \$ brew services stop mongodb

April 24, 2019 Page 2 of 3

Installation Guide EnvoScholar v2.0

#### Windows 10

```
$ "C:\Program_Files\MongoDB\Server\4.0\bin\mongod.exe"
--dbpath="c:\data\db"
```

At this point you want to open up MongoDB Compass. Leave the default settings and click Connect. You should now see on the terminal "connection accepted from..."

With the 3rd terminal, navigate to the user\_database\_server and run the following command:

# **MacOS**

```
$ node server.js
```

# Windows 10

```
$ nodemon server.js
```

You should see "Server started on port: 3000" and "Mongodb connection succeeded". Now you are free to use EnvoScholar v2.0.

April 24, 2019 Page 3 of 3