

InterConnect Report

-By
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Introduction

InterConnect is a web application based on AngularJS. This application is used for students to communicate with their professors. This application is mainly used for students to submit their files to be reviewed by professors. In this application, typescript is utilized for Angular. TypeScript provides advanced autocompletion, navigation, and refactoring. Having such tools is almost a requirement for large projects. Angular CLI is used for designing and creating InterConnect.

Workflow of project.

Step1: - Initially we need to install node js and Mongo DB. Every code related to the server is written in the index.js file. In this particular file we setup database and router connections. Once connections have been established, we can run the server on a specific port using the following command.

To start backend services:

```
node index.js
```

To start the database services:

```
mongod
```

Step2: - Secondarily we need to run the application using ng serve command which can be viewed connecting to localhost specified port on a browser. This specific command will work only on an AngularCLI supported folder.

Ng serve

Step3: - Components are created using command specified below. For every component, we can decide a specific logic we need to implement.

ng generate component "component name"

For every component, there is a selector where we can declare a name for a component. To display content on a particular component, we can use this particular selector as an HTML tag in any component. Secondly there is a templateUrl in which we specify HTML page related to a component. Finally, we can specify CSS file for an HTML file in this particular field.

What is Angular CLI?

Angular CLI is a Common Line Interface to automate your workflow. It is used for creating a new application. It allows us to run a development server with LiveReload support to preview your application during development on any browser employed linked to localhost specified to any port.

Components

The component is a special kind of directive that uses a simpler configuration which is suitable for a component-based application structure.

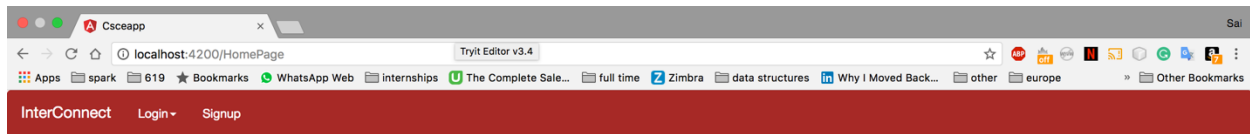
ng generate component " ControllerName "

using the above command, we can generate controllers.

For every component, an HTML page is linked in which we can display content generated through AngularCLI. For every generated component we have a module we have to include all declared components

InterConnect Home Page.

For the InterConnect home page, We have generated a controller in which we have linked HTML page with the following as its file name interconnect.component.html.



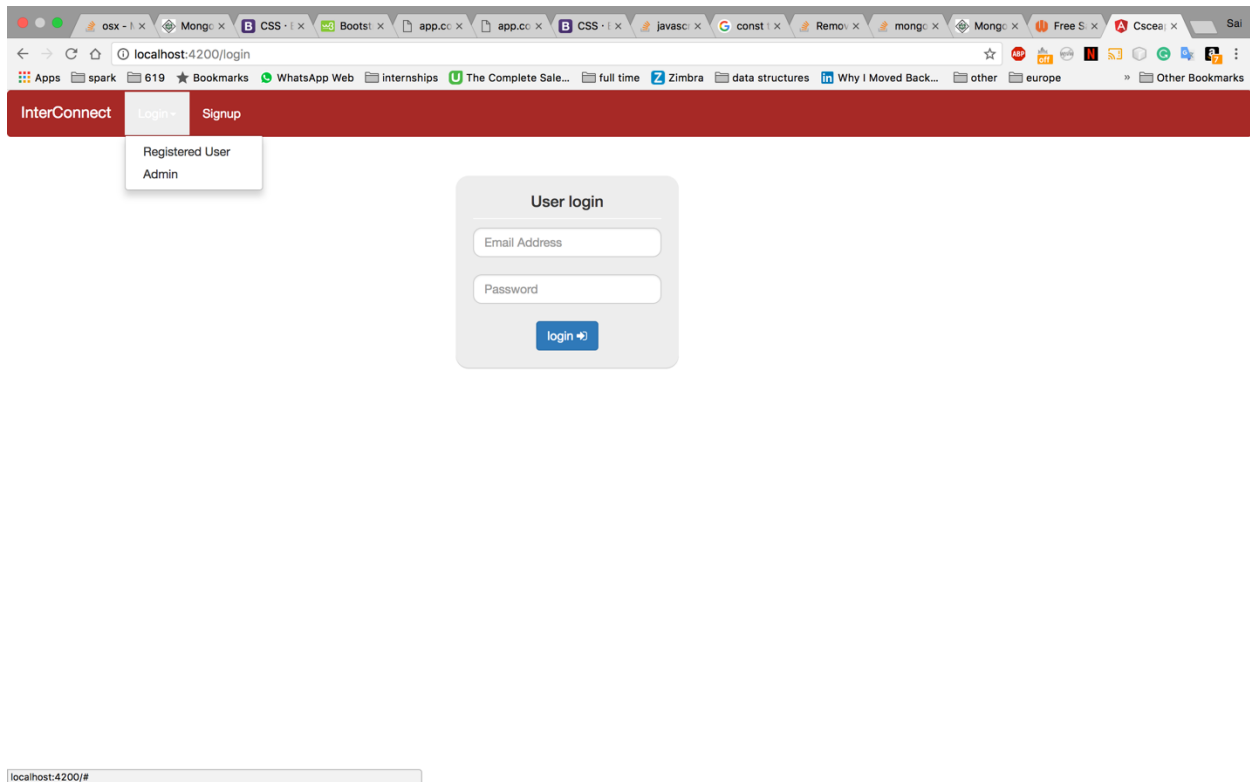
Welcome to Interconnect

About Us

InterConnect is a web application based on AngularJS. This application is used for students to communicate with their professors. This application is mainly used for students to submit their files to be reviewed by professors. In this application, typescript is utilized for Angular. TypeScript provides advanced autocompletion, navigation, and refactoring. Having such tools is almost a requirement for large projects. Angular CLI is used for designing and creating InterConnect.

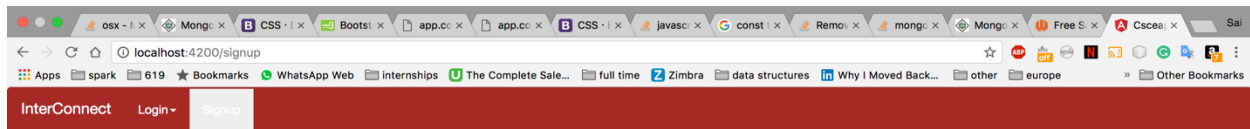
Registered User Login Page

To develop authentication services on Angular JS application, we need to create file name `auth.service.ts` in which import `AuthService` from `angular2 core`.



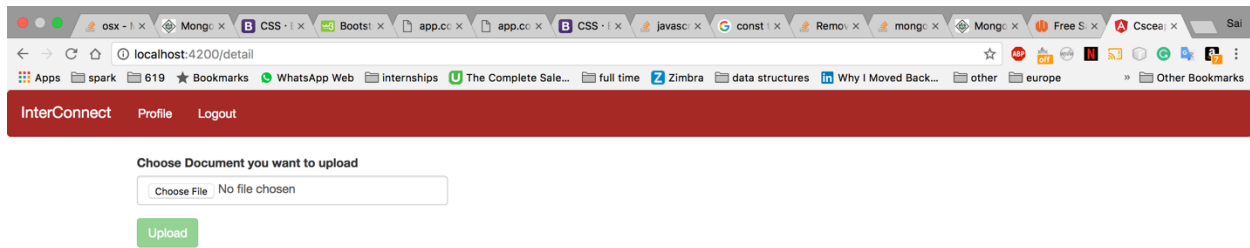
SignUp Page

To maintain SignUp page and maintain users we created a controller in which we need to create users using authentication services. Once created users are maintained in mongo database which we will explain further.



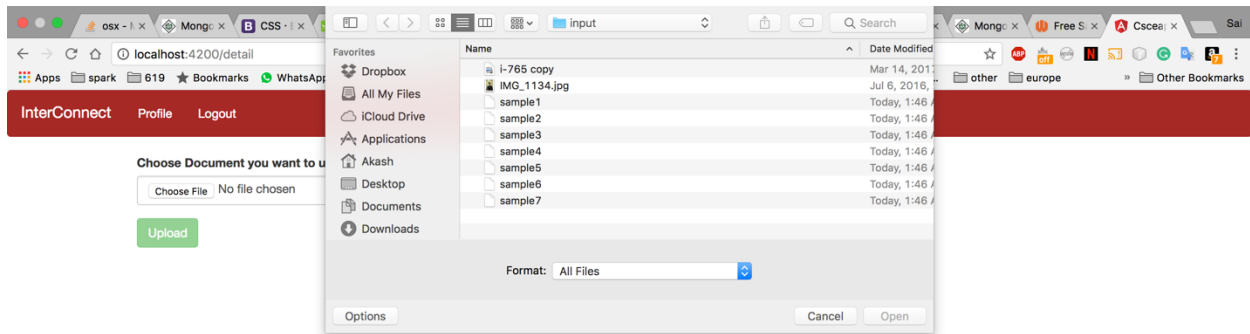
User Profile Page

On Sign-up or Login, the registered user is taken to the profile page. In the profile page, the user has the option to upload files, which will be available to the approver to grade. File uploader is a class from the AngularJS core library. We create an instance of FileUploader class and save the uploaded file in the upload folder locally.



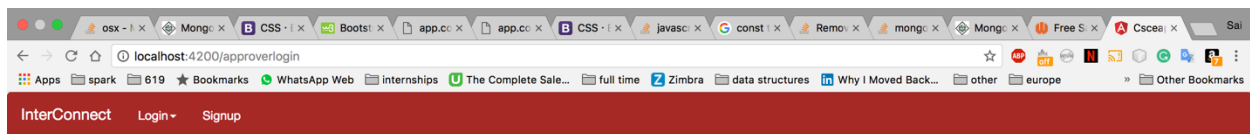
User File Uploader

On click of “Choose File” button the following page get displayed.



Admin Login Page

We create the admin page using the same component we used for Registered user. The component is called LoginComponent. All the admins login from admin's login page.



Admin login

Email Address

Password

login

Admin's Home Page

In the admin's home page, the admin can view all the submitted documents and can give comments on the submitted documents. The admin home profile is managed using the ApproverComponent.

