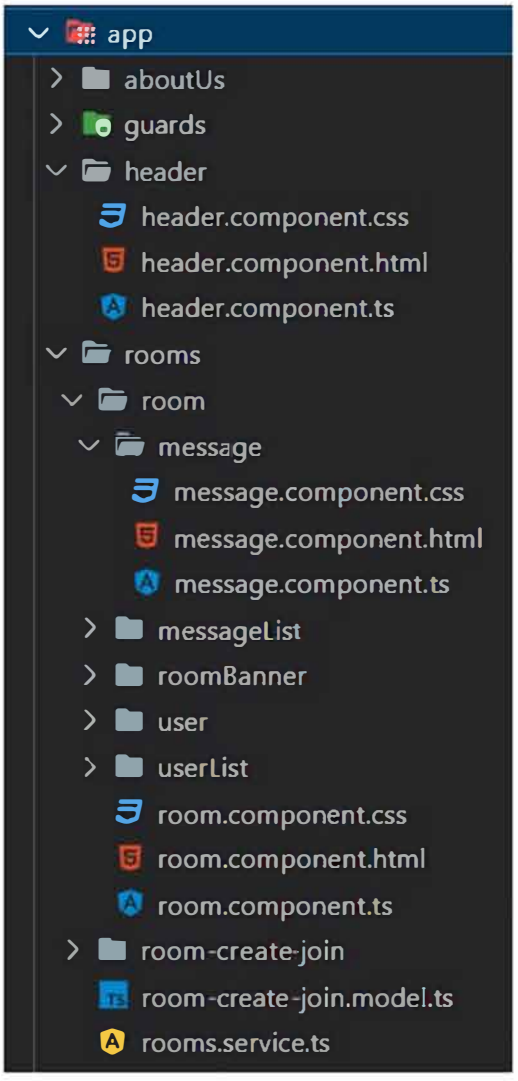
Annotation 11

Title: Angular Components

Description: This artifact is a collection of screenshots of ElectronChat front end Angular components. This artifact represents the proper implementation of Angular by utilizing components to build the infrastructure of the application. The exercises resulting in the artifact is a combination of efforts by all members of the ElectronChat team (James Marshall, Philip Marshall, Timothy Trusov, and Zakhaddin Khalidov). Angular is one of the most popular front end frameworks in JavaScript applications, and if implemented correctly provides practical universal cross platform compatibility. To create the most compatible web application the components have to be strategically implemented taking into consideration their effects across all platforms. This is an important factor to consider when developing Angular apps and is a great example of how we implemented it in ElectronChat to strengthen our compatibility.

Reflection: As a result of the implementation of components I gained insight into well structured application design, specifically utilizing Angular. I learned that Angular is a component based framework, which means sections of the UI are broken into small building blocks that be used to compose the page. Each component is designed to interact with a higher level component, up to the root component often referred to as the AppComponent. I found this structure of component based development easier to conceptualize and implement.

Artifact 11




```typescript
import { Component, Input } from "@angular/core";


@Component({
  selector: 'message',
  templateUrl: './message.component.html',
  styleUrls: ['./message.component.css']
})
export class MessageComponent {
  /**
   * On component imitialization
   * grabs element with msg tag and sets the scroll height
   */
  ngOnInit()
  {
    let div = document.getElementById("msg");
    if (div != null) {
      div.scrollTop = div.scrollHeight;
    }
  }
  /**
   * after the view is checked
   */
  ngAfterViewChecked()
  {
    let div = document.getElementById("msg");
    if (div != null) {
      div.scrollTop = div.scrollHeight;
    }
```