[CGA-JAVA-WFDA] Web Front-end Development Angular 2.1

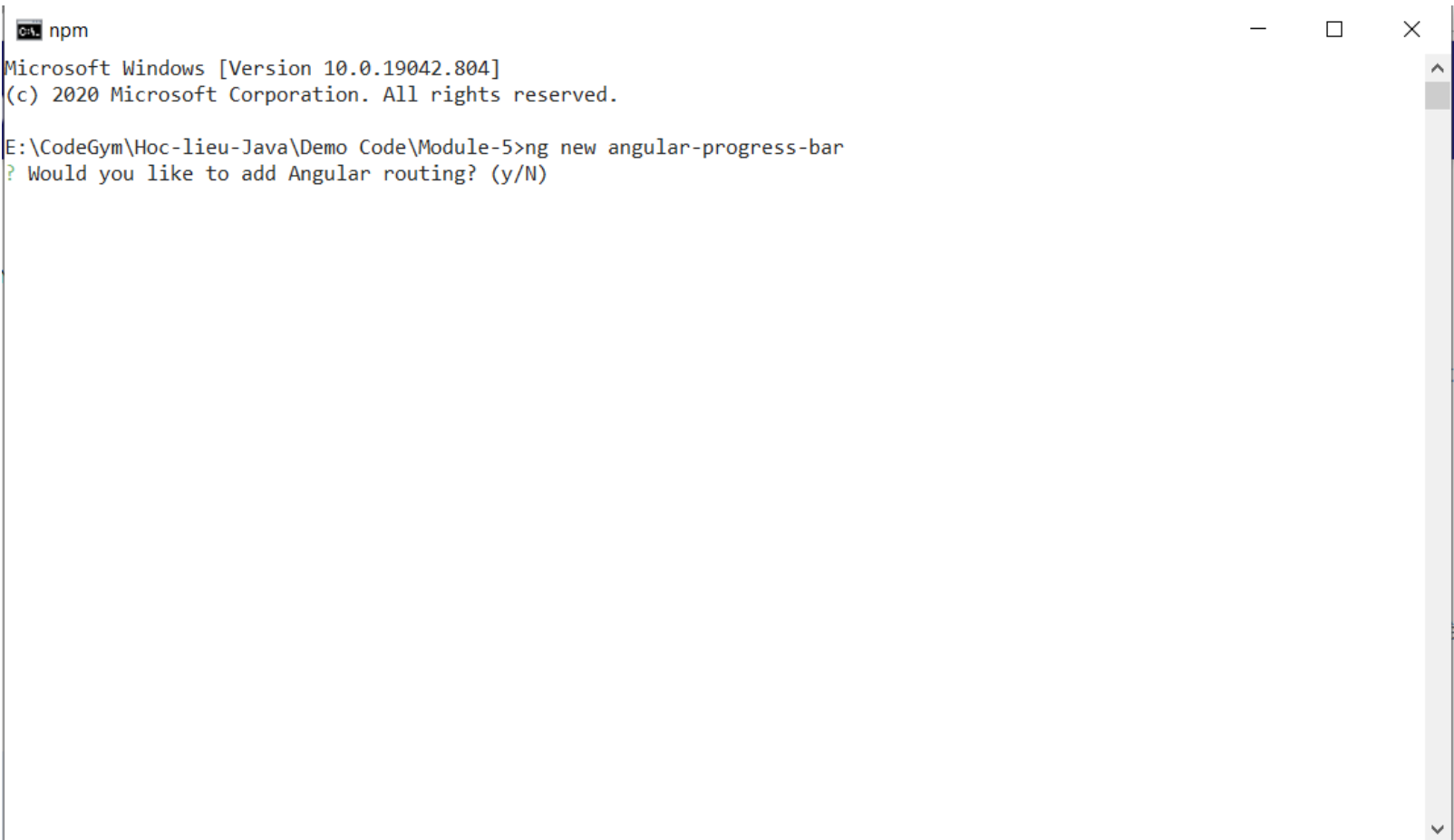# [Thực hành] Ứng dụng Progress Bar

Mục tiêu

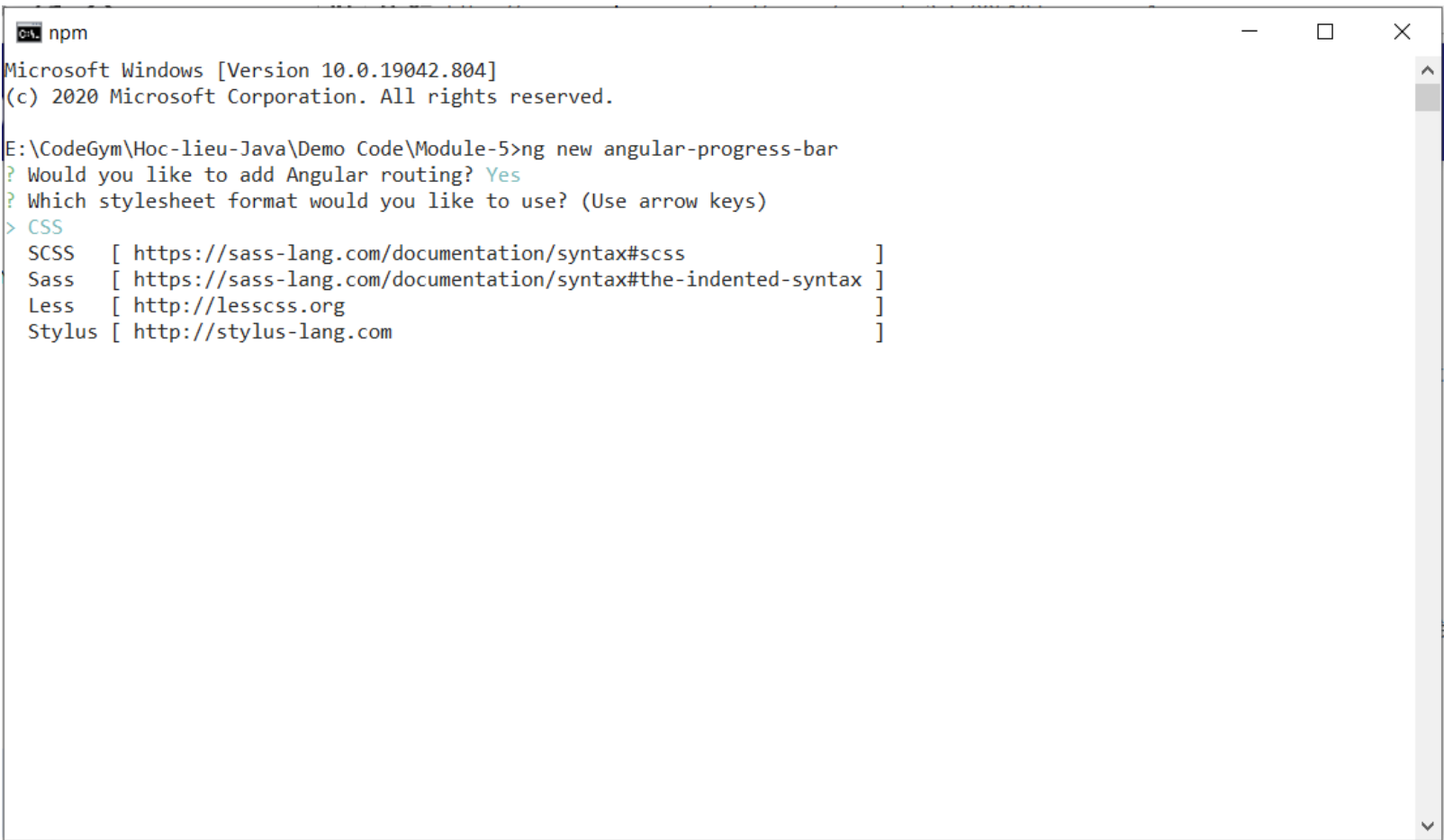Nắm bắt được về các thao tác với component trong Angular.

Mô tả

Tạo ứng dụng ProgressBar để hiển thị cho người dùng được biết tiến trình đang thực hiện đã đạt đến bước nào.

Hướng dẫn

Bước 1: Mở cửa sổ terminal và gõ lệnh **ng new angular-progress-bar** để tạo mới một dự án Angular

```
npm                                          —  □  ×
Microsoft Windows [Version 10.0.19042.804]
(c) 2020 Microsoft Corporation. All rights reserved.

E:\CodeGym\Hoc-lieu-Java\Demo Code\Module-5>ng new angular-progress-bar
? Would you like to add Angular routing? (y/N)
```

Tại cửa sổ tiếp theo gõ chữ **y** và ấn enter

```
npm                                          —  □  ×
Microsoft Windows [Version 10.0.19042.804]
(c) 2020 Microsoft Corporation. All rights reserved.

E:\CodeGym\Hoc-lieu-Java\Demo Code\Module-5>ng new angular-progress-bar
? Would you like to add Angular routing? Yes
? Which stylesheet format would you like to use? (Use arrow keys)
> CSS
  SCSS   [ https://sass-lang.com/documentation/syntax#scss            ]
  Sass   [ https://sass-lang.com/documentation/syntax#the-indented-syntax ]
  Less   [ http://lesscss.org                                         ]
  Stylus [ http://stylus-lang.com                                     ]
```

Tiếp theo chọn CSS và ấn enter và chờ ứng dụng được khởi tạo

```
C:\Windows\System32\cmd.exe                                                    —    □    ×

The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in src/app/app.component.ts.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in src/app/app.module.ts.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in src/environments/environment.prod.ts.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in src/environments/environment.ts.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in src/index.html.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in src/main.ts.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in src/polyfills.ts.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in src/styles.css.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in src/test.ts.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in tsconfig.app.json.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in tsconfig.json.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in tsconfig.spec.json.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in tslint.json.
The file will have its original line endings in your working directory
    Successfully initialized git.

E:\CodeGym\Hoc-lieu-Java\Demo Code\Module-5>
```

Ứng dụng đã được tạo thành công

Bước 2: Mở dự án vừa tạo bằng Webstorm

Bước 3: Mở cửa sổ terminal trong Webstorm và gõ lệnh **ng g c progress-bar** để tạo một component mới trong dự án

Bước 4: Thêm @Input vào trước các thuộc tính background color, progress color và progress (% quá trình) trong file progress-bar.component.ts để component cha có thể gửi dữ liệu xuống cho component con

```
@Input() backgroundColor = '#D9D9D9';
@Input() progressColor = '#4CAF50';
@Input() progress = 0;
```

Sau đó tạo phương thức loading() để thực hiện tải tiến trình thực hiện:

```
loading() {
  let interval = setInterval(() => {
    this.progress = +this.progress + 5;
    if (this.progress == 100) {
      clearInterval(interval);
    }
  }, 1000);
}
```

Code đầy đủ của file progress-bar.component.ts sẽ như sau:

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

@Component({
  selector: 'app-progress-bar',
  templateUrl: './progress-bar.component.html',
  styleUrls: ['./progress-bar.component.css']
})
export class ProgressBarComponent implements OnInit {
  @Input() backgroundColor = '#D9D9D9';
  @Input() progressColor = '#4CAF50';
  @Input() progress = 0;

  constructor() {
  }

  ngOnInit() {
    this.loading();
  }

  loading() {
    let interval = setInterval(() => {
      this.progress = +this.progress + 5;
      if (this.progress == 100) {
        clearInterval(interval);
      }
    }, 1000);
  }
}
```

Bước 5: Đặt template cho progress-bar.component.html như sau:

```html
<h2>Progress Bar</h2>

<div class="progress-bar-container" [style.backgroundColor]="backgroundColor">
  <div class="progress" [ngStyle]="{
  backgroundColor: progressColor,
  width: progress + '%'
  }"></div>
</div>
```

Bước 6: đặt style cho progress-bar.component.css như sau:

```css
.progress {
  height: 20px;
}
```

Bước 7: Thêm vào app.component.html:

```html
<app-progress-bar progress="0"></app-progress-bar>
```

Bước 8: Kiểm tra kết quả có giống với hình sau:

Progress Bar

Checkout sang nhánh develop để xem mã nguồn tham khảo: https://github.com/codegym-vn/wfda-angular-progress-bar

Hướng dẫn nộp bài:

up bài tập lên github

paste link github vào phần nộp bài

Submission status

Submission status	No attempt
Grading status	Not graded
Last modified	-
Submission comments	▶ [Comments (0)](#)

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