BAB VII
INTEGRASI BOOSTRAP DENGAN LARAVEL

7.1 Landasan Teori

Bootstrap di Laravel adalah kombinasi framework frontend dan backend yang memudahkan pembuatan tampilan web yang rapi, responsif, dan modern. Bootstrap menyediakan komponen seperti tombol, form, grid layout, dan navigasi, sementara Laravel memberi struktur backend yang kuat.

Dengan mengintegrasikan Bootstrap di Laravel, developer bisa membangun antarmuka yang konsisten dan cepat tanpa harus menulis semua style dari awal. Proses integrasinya pun mudah, baik melalui CDN, Vite, atau dengan meng-install Bootstrap lewat npm.

7.2 Tujuan

- Mahasiswa memahami konsep penggunaan **Bootstrap** dalam pengembangan antarmuka aplikasi berbasis Laravel.
- Mahasiswa dapat mengintegrasikan **Bootstrap** ke dalam proyek Laravel menggunakan CDN maupun Vite/NPM.
- Mahasiswa mampu memanfaatkan komponen-komponen Bootstrap seperti grid, form, tombol, dan navigasi untuk membuat tampilan yang responsif dan konsisten.

7.3 Pivot Tabel

7.3.1 Alat dan Bahan

- PHP 8.0 atau lebih tinggi
- Composer
- Laravel CLI
- Database (MySQL, PostgreSQL, atau SQLite)
- Teks editor (contoh: Visual Studio Code)

7.3.2 Pembuatan RBAC

1. Membuat Project Laravel Baru

Buka terminal, lalu jalankan perintah berikut untuk membuat project Laravel baru:

```
laravel new rbac-project
# atau
composer create-project laravel/laravel frontend-project
```

2. Masuk ke folder project:

```
cd frontend-project
```

3. Instal Bootstrap melalui npm:

```
npm install bootstrap
```

4. Konfigurasi Vite untuk Bootstrap

~~~
1. Perbarui `resources/css/app.css` untuk menyertakan Bootstrap:
   ```css
   @import 'tailwindcss'; /* Jika menggunakan Tailwind bersamaan dengan Bootstrap */
   @import 'bootstrap/dist/css/bootstrap.css';
   @import '@fortawesome/fontawesome-free/css/all.css';

   @source
'../../vendor/laravel/framework/src/Illuminate/Pagination/resources/views/*.blade.php'
;
   @source '../../storage/framework/views/*.php';
   @source '../**/*.blade.php';
   @source '../**/*.js';

   @theme {
       --font-sans: 'Instrument Sans', ui-sans-serif, system-ui, sans-serif, 'Apple
Color Emoji', 'Segoe UI Emoji',
           'Segoe UI Symbol', 'Noto Color Emoji';
   }
   ~~~

2. Perbarui `resources/js/app.js` untuk menyertakan JavaScript Bootstrap:
   ```javascript
   import './bootstrap';
   import 'bootstrap/dist/js/bootstrap.bundle.js';
   ```

3. File `vite.config.js` Anda seharusnya sudah memiliki konfigurasi yang diperlukan
untuk memproses file-file ini.
```

5. Membuat Controller

```
1. Buat controller baru menggunakan perintah Artisan (opsional):
   ```bash
   php artisan make:controller PersonalDataController
   ```

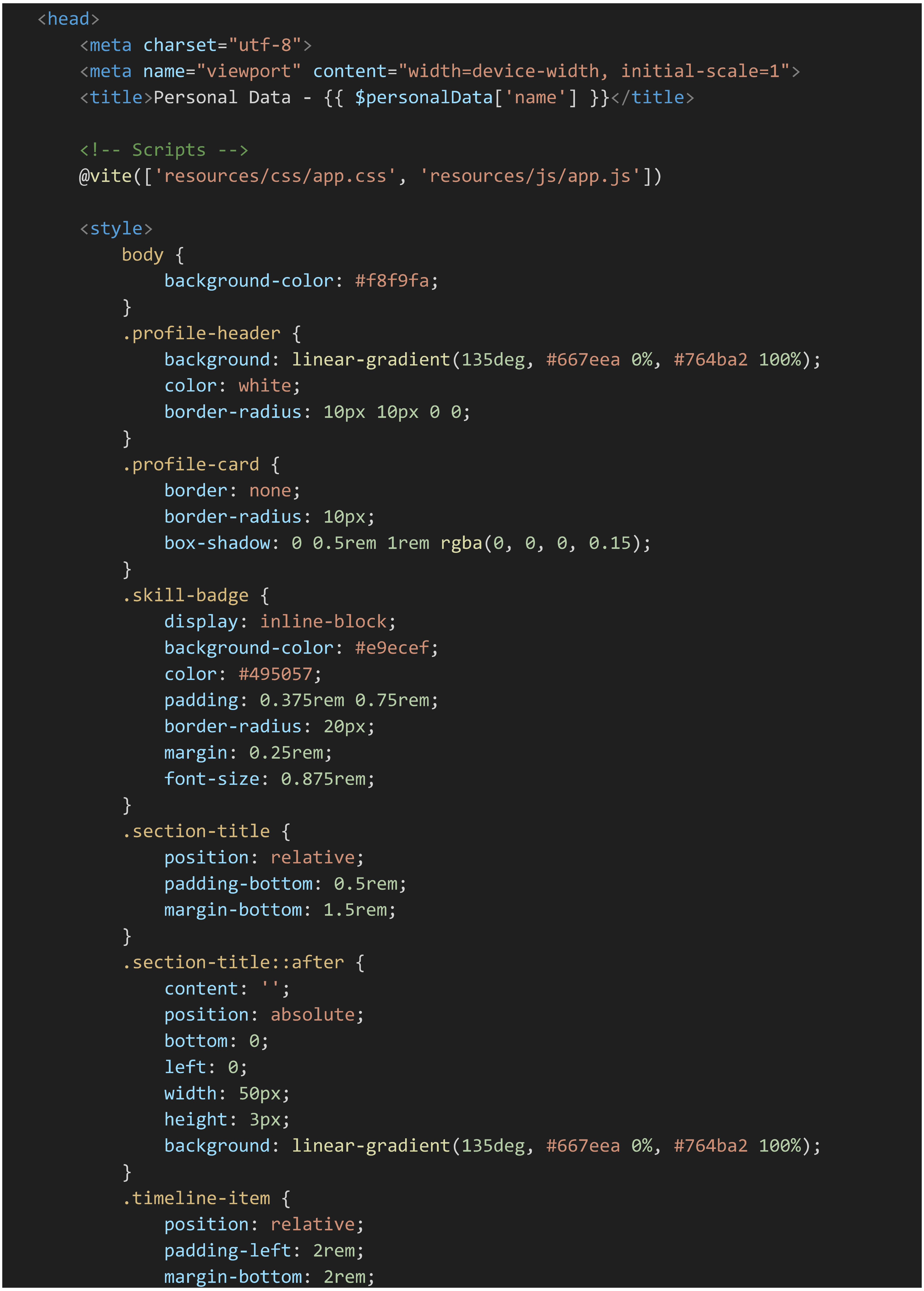
2. Atau buat controller secara manual di
`app/Http/Controllers/PersonalDataController.php`:
   ```php
   <?php

   namespace App\Http\Controllers;

   use Illuminate\Http\Request;
```

```
    class PersonalDataController extends Controller
    {
        public function index()
        {
            // Data diri contoh - dalam aplikasi nyata, ini akan diambil dari database
            $personalData = [
                'name' => 'John Doe',
                'title' => 'Senior Software Engineer',
                'email' => 'john.doe@example.com',
                'phone' => '+1 (555) 123-4567',
                'address' => '123 Main Street, New York, NY 10001',
                'birth_date' => 'January 15, 1990',
                'nationality' => 'American',
                'linkedin' => 'linkedin.com/in/johndoe',
                'github' => 'github.com/johndoe',
                'summary' => 'Passionate software engineer with 5+ years of experience
in web development. Specialized in Laravel, Vue.js, and modern JavaScript frameworks.
Committed to writing clean, efficient, and maintainable code.',
                'skills' => [
                    'Laravel',
                    'PHP',
                    'JavaScript',
                    'Vue.js',
                    'React',
                    'MySQL',
                    'PostgreSQL',
                    'Git',
                    'Docker',
                    'AWS'
                ],
                'experience' => [
                    [
                        'position' => 'Senior Web Developer',
                        'company' => 'Tech Solutions Inc.',
                        'period' => 'Jan 2022 - Present',
                        'description' => 'Lead development of customer-facing
applications using Laravel and Vue.js. Improved application performance by 40% through
optimization techniques.'
                    ],
                    [
                        'position' => 'Web Developer',
                        'company' => 'Digital Creations LLC',
                        'period' => 'Mar 2020 - Dec 2021',
                        'description' => 'Developed and maintained multiple client
websites using modern web technologies. Collaborated with design team to implement
responsive UIs.'
                    ],
                    [
                        'position' => 'Junior Developer',
```

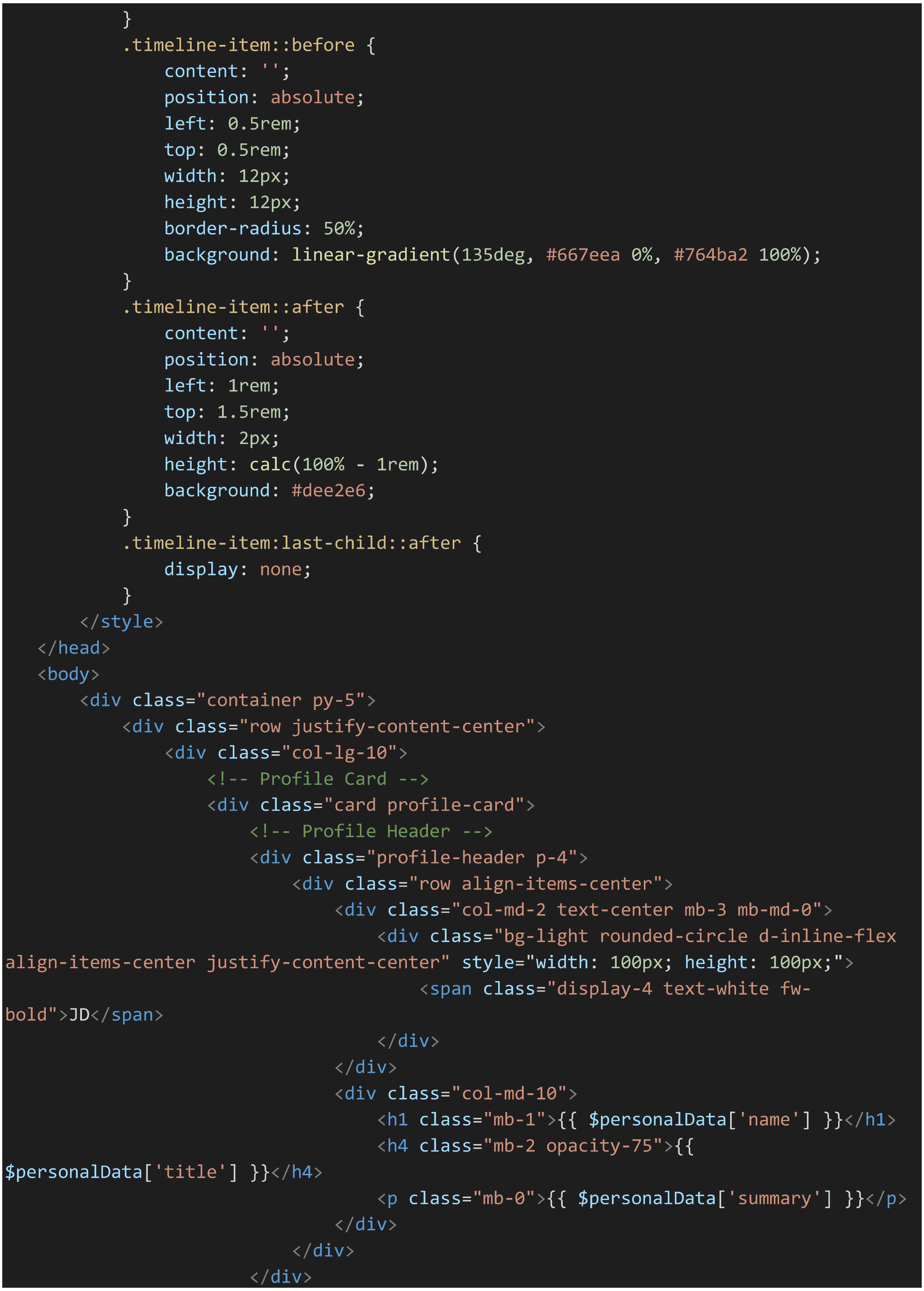
~~~
                       'company' => 'Web Masters Co.',
                       'period' => 'Jun 2019 - Feb 2020',
                       'description' => 'Assisted in development of internal tools and
customer projects. Gained experience in full-stack development.'
                   ]
               ],
               'education' => [
                   [
                       'degree' => 'Bachelor of Science in Computer Science',
                       'institution' => 'University of Technology',
                       'period' => '2014 - 2018',
                       'description' => 'Graduated with honors. Focused on software
engineering and web technologies.'
                   ]
               ]
           ];

           return view('personal-data.index', compact('personalData'));
       }
   }
   ```
~~~

6. Membuat Rute

~~~
1. Tambahkan rute ke `routes/web.php`:
   ```php
   <?php

   use Illuminate\Support\Facades\Route;
   use App\Http\Controllers\PersonalDataController;

   Route::get('/', function () {
       return view('welcome');
   });

   Route::get('/personal-data', [PersonalDataController::class, 'index'])-
>name('personal-data.index');
   ```

## Membuat Tampilan Data Diri

1. Buat struktur direktori:
   ```bash
   mkdir -p resources/views/personal-data
   ```

2. Buat file tampilan di `resources/views/personal-data/index.blade.php`:
   ```php
   <!DOCTYPE html>
   <html lang="{{ str_replace('_', '-', app()->getLocale()) }}">
~~~

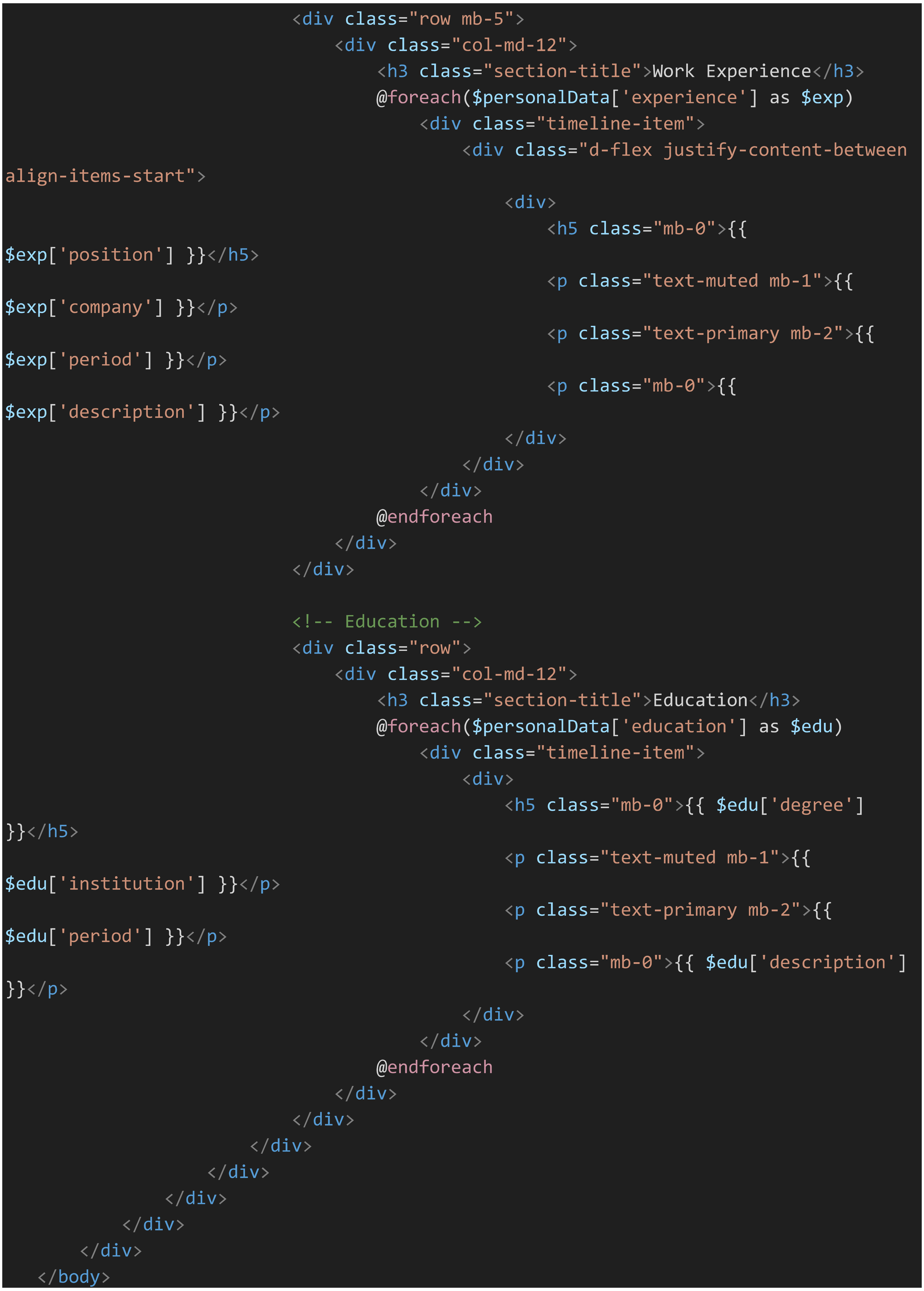


```
    <head>
        <meta charset="utf-8">
        <meta name="viewport" content="width=device-width, initial-scale=1">
        <title>Personal Data - {{ $personalData['name'] }}</title>

        <!-- Scripts -->
        @vite(['resources/css/app.css', 'resources/js/app.js'])

        <style>
            body {
                background-color: #f8f9fa;
            }
            .profile-header {
                background: linear-gradient(135deg, #667eea 0%, #764ba2 100%);
                color: white;
                border-radius: 10px 10px 0 0;
            }
            .profile-card {
                border: none;
                border-radius: 10px;
                box-shadow: 0 0.5rem 1rem rgba(0, 0, 0, 0.15);
            }
            .skill-badge {
                display: inline-block;
                background-color: #e9ecef;
                color: #495057;
                padding: 0.375rem 0.75rem;
                border-radius: 20px;
                margin: 0.25rem;
                font-size: 0.875rem;
            }
            .section-title {
                position: relative;
                padding-bottom: 0.5rem;
                margin-bottom: 1.5rem;
            }
            .section-title::after {
                content: '';
                position: absolute;
                bottom: 0;
                left: 0;
                width: 50px;
                height: 3px;
                background: linear-gradient(135deg, #667eea 0%, #764ba2 100%);
            }
            .timeline-item {
                position: relative;
                padding-left: 2rem;
                margin-bottom: 2rem;
```



```
            }
            .timeline-item::before {
                content: '';
                position: absolute;
                left: 0.5rem;
                top: 0.5rem;
                width: 12px;
                height: 12px;
                border-radius: 50%;
                background: linear-gradient(135deg, #667eea 0%, #764ba2 100%);
            }
            .timeline-item::after {
                content: '';
                position: absolute;
                left: 1rem;
                top: 1.5rem;
                width: 2px;
                height: calc(100% - 1rem);
                background: #dee2e6;
            }
            .timeline-item:last-child::after {
                display: none;
            }
        </style>
    </head>
    <body>
        <div class="container py-5">
            <div class="row justify-content-center">
                <div class="col-lg-10">
                    <!-- Profile Card -->
                    <div class="card profile-card">
                        <!-- Profile Header -->
                        <div class="profile-header p-4">
                            <div class="row align-items-center">
                                <div class="col-md-2 text-center mb-3 mb-md-0">
                                    <div class="bg-light rounded-circle d-inline-flex
align-items-center justify-content-center" style="width: 100px; height: 100px;">
                                        <span class="display-4 text-white fw-
bold">JD</span>
                                    </div>
                                </div>
                                <div class="col-md-10">
                                    <h1 class="mb-1">{{ $personalData['name'] }}</h1>
                                    <h4 class="mb-2 opacity-75">{{
$personalData['title'] }}</h4>
                                    <p class="mb-0">{{ $personalData['summary'] }}</p>
                                </div>
                            </div>
                        </div>
```

```
                       <!-- Profile Body -->
                       <div class="card-body p-4">
                           <!-- Contact Information -->
                           <div class="row mb-5">
                               <div class="col-md-12">
                                   <h3 class="section-title">Contact Information</h3>
                                   <div class="row">
                                       <div class="col-md-6">
                                           <ul class="list-unstyled">
                                               <li class="mb-2"><i class="fas fa-envelope me-2"></i><strong>Email:</strong> {{ $personalData['email'] }}</li>
                                               <li class="mb-2"><i class="fas fa-phone me-2"></i><strong>Phone:</strong> {{ $personalData['phone'] }}</li>
                                               <li class="mb-2"><i class="fas fa-birthday-cake me-2"></i><strong>Date of Birth:</strong> {{ $personalData['birth_date'] }}</li>
                                           </ul>
                                       </div>
                                       <div class="col-md-6">
                                           <ul class="list-unstyled">
                                               <li class="mb-2"><i class="fas fa-map-marker-alt me-2"></i><strong>Address:</strong> {{ $personalData['address'] }}</li>
                                               <li class="mb-2"><i class="fas fa-globe me-2"></i><strong>Nationality:</strong> {{ $personalData['nationality'] }}</li>
                                               <li class="mb-2"><i class="fab fa-linkedin me-2"></i><strong>LinkedIn:</strong> {{ $personalData['linkedin'] }}</li>
                                               <li class="mb-2"><i class="fab fa-github me-2"></i><strong>GitHub:</strong> {{ $personalData['github'] }}</li>
                                           </ul>
                                       </div>
                                   </div>
                               </div>
                           </div>

                           <!-- Skills -->
                           <div class="row mb-5">
                               <div class="col-md-12">
                                   <h3 class="section-title">Skills & Expertise</h3>
                                   <div>
                                       @foreach($personalData['skills'] as $skill)
                                           <span class="skill-badge">{{ $skill }}</span>

                                       @endforeach
                                   </div>
                               </div>
                           </div>

                           <!-- Experience -->
```



```
                            <div class="row mb-5">
                                <div class="col-md-12">
                                    <h3 class="section-title">Work Experience</h3>
                                    @foreach($personalData['experience'] as $exp)
                                        <div class="timeline-item">
                                            <div class="d-flex justify-content-between
align-items-start">
                                                <div>
                                                    <h5 class="mb-0">{{
$exp['position'] }}</h5>
                                                    <p class="text-muted mb-1">{{
$exp['company'] }}</p>
                                                    <p class="text-primary mb-2">{{
$exp['period'] }}</p>
                                                    <p class="mb-0">{{
$exp['description'] }}</p>
                                                </div>
                                            </div>
                                        </div>
                                    @endforeach
                                </div>
                            </div>

                            <!-- Education -->
                            <div class="row">
                                <div class="col-md-12">
                                    <h3 class="section-title">Education</h3>
                                    @foreach($personalData['education'] as $edu)
                                        <div class="timeline-item">
                                            <div>
                                                <h5 class="mb-0">{{ $edu['degree']
}}</h5>
                                                <p class="text-muted mb-1">{{
$edu['institution'] }}</p>
                                                <p class="text-primary mb-2">{{
$edu['period'] }}</p>
                                                <p class="mb-0">{{ $edu['description']
}}</p>
                                            </div>
                                        </div>
                                    @endforeach
                                </div>
                            </div>
                        </div>
                    </div>
                </div>
            </div>
        </div>
    </body>
```

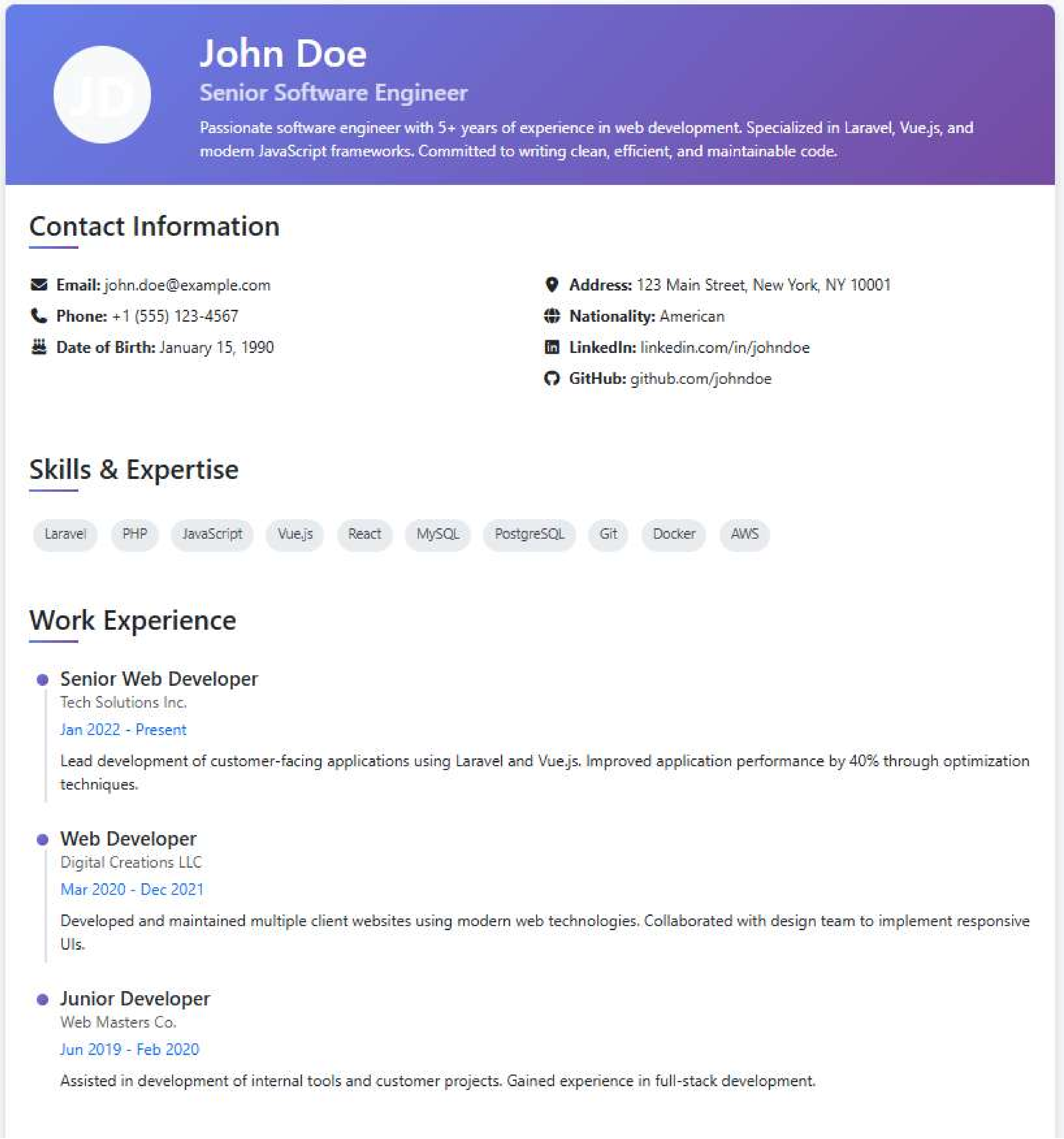
~~~
</html>
```
~~~

7. Menjalankan Aplikasi

```
php artisan serve
```

Buka browser dan kunjungi `http://127.0.0.1:8000`

8. Dokumentasi Akhir RBAC



JD

John Doe

Senior Software Engineer

Passionate software engineer with 5+ years of experience in web development. Specialized in Laravel, Vue.js, and modern JavaScript frameworks. Committed to writing clean, efficient, and maintainable code.

Contact Information

Email: john.doe@example.com

Phone: +1 (555) 123-4567

Date of Birth: January 15, 1990

Address: 123 Main Street, New York, NY 10001

Nationality: American

LinkedIn: linkedin.com/in/johndoe

GitHub: github.com/johndoe

Skills & Expertise

Laravel PHP JavaScript Vue.js React MySQL PostgreSQL Git Docker AWS

Work Experience

Senior Web Developer
Tech Solutions Inc.
Jan 2022 - Present

Lead development of customer-facing applications using Laravel and Vue.js. Improved application performance by 40% through optimization techniques.

Web Developer
Digital Creations LLC
Mar 2020 - Dec 2021

Developed and maintained multiple client websites using modern web technologies. Collaborated with design team to implement responsive UIs.

Junior Developer
Web Masters Co.
Jun 2019 - Feb 2020

Assisted in development of internal tools and customer projects. Gained experience in full-stack development.

7.4 Tugas

Implementasikan **FRONTEND BOOTSTRAP** ini ke sistem CRUD, Laravel Breeze, Mailtrap dan RBAC yang sudah anda buat. Buat tampilanya semenarik mungkin dan usahakan **Tidak Sama** dengan teman anda