

***Name***

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***Reg #***

***FA22-BSE-003***

***Assignment No 4***

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AuthController.php

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| <?php  namespace App\Http\Controllers;  use App\Models\Student;  use Illuminate\Http\Request;  use Illuminate\Support\Facades\Auth;  use Illuminate\Support\Facades\Hash;  use Illuminate\Support\Facades\Session;  class AuthController extends Controller  {      public function showRegister()      {          return view('auth.register');      }      public function register(Request $request)      {          $request->validate([              'name' => 'required|string|max:255',              'email' => 'required|email|unique:students,email',              'department' => 'required|string|max:255',              'password' => 'required|string|min:8|confirmed',          ]);          $student = Student::create([              'name' => $request->name,              'email' => $request->email,              'department' => $request->department,              'password' => Hash::make($request->password),          ]);          Auth::login($student);          Session::flash('message', 'Registration successful!');          return redirect()->route('dashboard');      }      public function showLogin()      {          return view('auth.login');      }      public function login(Request $request)      {          $request->validate([              'email' => 'required|email',              'password' => 'required|string',          ]);          if (Auth::attempt(['email' => $request->email, 'password' => $request->password], $request->has('remember'))) {              Session::regenerate();              Session::flash('message', 'Login successful!');              return redirect()->route('dashboard');          }          return back()->withErrors(['email' => 'Invalid credentials']);      }      public function logout()      {          Auth::logout();          Session::flush();          cookie()->queue(cookie()->forget('auth\_token'));          Session::flash('message', 'Logged out successfully!');          return redirect()->route('login');      }  } |

CourseController.php

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| <?php  namespace App\Http\Controllers;  use App\Models\Course;  use App\Models\Student;  use Illuminate\Http\Request;  use Illuminate\Support\Facades\Auth;  class CourseController extends Controller  {      public function index(Request $request)      {          $department = $request->query('department');          $instructor = $request->query('instructor');          $query = Course::query();          if ($department) {              $query->where('department', 'like', '%' . $department . '%');          }          if ($instructor) {              $query->where('instructor', 'like', '%' . $instructor . '%');          }          $courses = $query->get();          return $request->ajax() ? response()->json($courses) : view('courses.index', compact('courses'));      }      public function register(Request $request)      {          $student = Auth::user();          $courseId = $request->course\_id;          if (!$student->courses()->where('course\_id', $courseId)->exists()) {              $student->courses()->attach($courseId);              return response()->json(['message' => 'Course registered successfully!']);          }          return response()->json(['message' => 'You are already registered for this course.'], 400);      }      public function unregister(Request $request)      {          $student = Auth::user();          $courseId = $request->course\_id;          if ($student->courses()->where('course\_id', $courseId)->exists()) {              $student->courses()->detach($courseId);              if ($request->ajax() || $request->wantsJson()) {                  return response()->json(['message' => 'Course unregistered successfully!']);              } else {                  return redirect()->route('profile.show')->with('message', 'Course unregistered successfully!');              }          }          if ($request->ajax() || $request->wantsJson()) {              return response()->json(['message' => 'You are not registered for this course.'], 400);          } else {              return redirect()->route('profile.show')->with('error', 'You are not registered for this course.');          }      }  } |

ProfileController.php

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| <?php  namespace App\Http\Controllers;  use App\Models\Student;  use Illuminate\Http\Request;  use Illuminate\Support\Facades\Auth;  use Illuminate\Support\Facades\Session;  class ProfileController extends Controller  {      public function show()      {          $student = Auth::user();          return view('profile.show', compact('student'));      }      public function edit()      {          $student = Auth::user();          return view('profile.edit', compact('student'));      }      public function update(Request $request)      {          $student = Auth::user();          $request->validate([              'name' => 'required|string|max:255',              'email' => 'required|email|unique:students,email,' . $student->id,              'department' => 'required|string|max:255',          ]);          $student->update([              'name' => $request->name,              'email' => $request->email,              'department' => $request->department,          ]);          Session::flash('message', 'Profile updated successfully!');          return redirect()->route('profile.show');      }      public function exportJson()      {          $student = Auth::user();          $courses = $student->courses()->get(['title', 'credit\_hours', 'instructor', 'department']);          return response()->json($courses)->header('Content-Disposition', 'attachment; filename=courses.json');      }      public function exportXml()      {          $student = Auth::user();          $courses = $student->courses()->get(['title', 'credit\_hours', 'instructor', 'department']);          $xml = new \SimpleXMLElement('<?xml version="1.0" encoding="UTF-8"?><courses></courses>');          foreach ($courses as $course) {              $courseXml = $xml->addChild('course');              $courseXml->addChild('title', htmlspecialchars($course->title));              $courseXml->addChild('credit\_hours', $course->credit\_hours);              $courseXml->addChild('instructor', htmlspecialchars($course->instructor));              $courseXml->addChild('department', htmlspecialchars($course->department));          }          return response($xml->asXML(), 200, [              'Content-Type' => 'application/xml',              'Content-Disposition' => 'attachment; filename=courses.xml',          ]);      }  } |

Models

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| <?php  namespace App\Models;  use Illuminate\Database\Eloquent\Model;  class Course extends Model  {      protected $fillable = ['title', 'credit\_hours', 'instructor', 'department'];  }  <?php  namespace App\Models;  use Illuminate\Foundation\Auth\User as Authenticatable;  use Illuminate\Notifications\Notifiable;  class Student extends Authenticatable  {      use Notifiable;      protected $fillable = ['name', 'email', 'department', 'password'];      protected $hidden = ['password', 'remember\_token'];      public function courses()      {          return $this->belongsToMany(Course::class, 'student\_courses');      }  } |

Middleware

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| <?php  namespace App\Http\Middleware;  use Closure;  use Illuminate\Support\Facades\Auth;  class EnsureAuthenticated  {      public function handle($request, Closure $next)      {          if (!Auth::check()) {              return redirect()->route('login')->withErrors(['message' => 'Please log in to access this page.']);          }          return $next($request);      }  } |

Kernal.php

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| protected $routeMiddleware = [      // Other middleware...      'auth' => \App\Http\Middleware\EnsureAuthenticated::class,    ]; |

View

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| @extends('layouts.app')  @section('content')  <div class="dashboard-welcome">      <h2>Welcome back, {{ Auth::user()->name }}!</h2>      <p>Your student dashboard provides quick access to your profile and available courses. Stay updated with your academic progress.</p>      <div class="dashboard-actions">          <a href="{{ route('profile.show') }}" class="btn">              <i class="fas fa-user"></i> View Profile          </a>          <a href="{{ route('courses.index') }}" class="btn">              <i class="fas fa-book"></i> Browse Courses          </a>      </div>  </div>  <div class="table-container">      <h2>Quick Actions</h2>      <div class="dashboard-actions">          <a href="{{ route('profile.edit') }}" class="btn">              <i class="fas fa-edit"></i> Edit Profile          </a>          <a href="{{ route('profile.export.json') }}" class="btn btn-green">              <i class="fas fa-file-export"></i> Export to JSON          </a>          <a href="{{ route('profile.export.xml') }}" class="btn btn-green">              <i class="fas fa-file-export"></i> Export to XML          </a>      </div>  </div>  @endsection  Profile @extends('layouts.app')  @section('content')  <div class="profile-info">      <h2><i class="fas fa-user-circle"></i> Student Profile</h2>      <p><strong>Name:</strong> {{ $student->name }}</p>      <p><strong>Email:</strong> {{ $student->email }}</p>      <p><strong>Department:</strong> {{ $student->department }}</p>  </div>  <div class="table-container">      <h3><i class="fas fa-book-open"></i> Registered Courses</h3>      @if($student->courses->count() > 0)          <table>              <thead>                  <tr>                      <th>Title</th>                      <th>Credit Hours</th>                      <th>Instructor</th>                      <th>Department</th>                      <th>Actions</th>                  </tr>              </thead>              <tbody>                  @foreach ($student->courses as $course)                      <tr>                          <td>{{ $course->title }}</td>                          <td>{{ $course->credit\_hours }}</td>                          <td>{{ $course->instructor }}</td>                          <td>{{ $course->department }}</td>                          <td>                              <form method="POST" action="{{ route('courses.unregister') }}" style="display:inline">                                  @csrf                                  <input type="hidden" name="course\_id" value="{{ $course->id }}">                                  <button type="submit" class="btn btn-danger" onclick="return confirm('Are you sure you want to unregister from this course?')">UnRegister</button>                              </form>                          </td>                      </tr>                  @endforeach              </tbody>          </table>      @else          <p class="no-courses">You haven't registered for any courses yet.</p>      @endif        @if(session('message'))          <div class="alert alert-success">{{ session('message') }}</div>      @endif      @if(session('error'))          <div class="alert alert-danger">{{ session('error') }}</div>      @endif      <div class="profile-actions">          <a href="{{ route('profile.edit') }}" class="btn">              <i class="fas fa-edit"></i> Edit Profile          </a>          <a href="{{ route('profile.export.json') }}" class="btn btn-green">              <i class="fas fa-file-export"></i> Export to JSON          </a>          <a href="{{ route('profile.export.xml') }}" class="btn btn-green">              <i class="fas fa-file-export"></i> Export to XML          </a>      </div>  </div>  @endsection  @extends('layouts.app')  @section('content')  <div class="form-container">      <h2>Edit Profile</h2>      <form method="POST" action="{{ route('profile.update') }}">          @csrf          @method('PUT')          <div class="form-group">              <label for="name">Name</label>              <input type="text" name="name" id="name" class="@error('name') error @enderror" value="{{ old('name', $student->name) }}">              @error('name')                  <p class="error-message">{{ $message }}</p>              @enderror          </div>          <div class="form-group">              <label for="email">Email</label>              <input type="email" name="email" id="email" class="@error('email') error @enderror" value="{{ old('email', $student->email) }}">              @error('email')                  <p class="error-message">{{ $message }}</p>              @enderror          </div>          <div class="form-group">              <label for="department">Department</label>              <input type="text" name="department" id="department" class="@error('department') error @enderror" value="{{ old('department', $student->department) }}">              @error('department')                  <p class="error-message">{{ $message }}</p>              @enderror          </div>          <button type="submit">Update</button>      </form>  </div>  @endsection  Layout <!DOCTYPE html>  <html lang="en">  <head>      <meta charset="UTF-8">      <meta name="viewport" content="width=device-width, initial-scale=1.0">      <title>COMSATS Student Portal</title>      <meta name="csrf-token" content="{{ csrf\_token() }}">      <link href="{{ asset('css/style.css') }}" rel="stylesheet">      <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.4.0/css/all.min.css">      <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@300;400;500;600;700&display=swap" rel="stylesheet">      <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>  </head>  <body>      <nav class="nav-animate">          <div class="container">              <a href="{{ route('dashboard') }}" class="nav-brand">                  <i class="fas fa-graduation-cap"></i> COMSATS Student Portal              </a>              @auth                  <div class="nav-links">                      <a href="{{ route('profile.show') }}"><i class="fas fa-user"></i> Profile</a>                      <a href="{{ route('courses.index') }}"><i class="fas fa-book"></i> Courses</a>                      <form action="{{ route('logout') }}" method="POST" class="inline">                          @csrf                          <button type="submit" class="btn-logout"><i class="fas fa-sign-out-alt"></i> Logout</button>                      </form>                  </div>              @else                  <div class="nav-links">                      <a href="{{ route('login') }}"><i class="fas fa-sign-in-alt"></i> Login</a>                      <a href="{{ route('register') }}" class="btn-register"><i class="fas fa-user-plus"></i> Register</a>                  </div>              @endauth          </div>      </nav>      <div class="container">          @if (session('message'))              <div class="alert alert-animate">                  <div class="alert-content">                      <i class="fas fa-check-circle"></i>                      {{ session('message') }}                  </div>                  <button class="alert-close"><i class="fas fa-times"></i></button>              </div>          @endif          @yield('content')      </div>      <script src="{{ asset('js/app.js') }}"></script>  </body>  </html>  Course @extends('layouts.app')  @section('content')  <div class="table-container">      <h2>Available Courses</h2>      <div class="filter-group">          <input type="text" id="departmentFilter" placeholder="Filter by Department">          <input type="text" id="instructorFilter" placeholder="Filter by Instructor">      </div>      <table>          <thead>              <tr>                  <th>Title</th>                  <th>Credit Hours</th>                  <th>Instructor</th>                  <th>Department</th>                  <th>Action</th>              </tr>          </thead>          <tbody id="courseTable">              @foreach ($courses as $course)                  <tr>                      <td>{{ $course->title }}</td>                      <td>{{ $course->credit\_hours }}</td>                      <td>{{ $course->instructor }}</td>                      <td>{{ $course->department }}</td>                      <td>                          <button class="register-course" data-id="{{ $course->id }}">Register</button>                      </td>                  </tr>              @endforeach          </tbody>      </table>  </div>  <script>  $(document).ready(function() {      $('#departmentFilter, #instructorFilter').on('input', function() {          $.ajax({              url: '{{ route('courses.index') }}',              data: {                  department: $('#departmentFilter').val(),                  instructor: $('#instructorFilter').val()              },              success: function(*courses*) {                  $('#courseTable').empty();                  courses.forEach(*course* => {                      $('#courseTable').append(`                          <tr>                              <td>${course.title}</td>                              <td>${course.credit\_hours}</td>                              <td>${course.instructor}</td>                              <td>${course.department}</td>                              <td>                                  <button class="register-course" data-id="${course.id}">Register</button>                              </td>                          </tr>                      `);                  });              }          });      });      $(document).on('click', '.register-course', function() {          const courseId = $(this).data('id');          $.ajax({              url: '{{ route('courses.register') }}',              method: 'POST',              data: {                  course\_id: courseId,                  \_token: '{{ csrf\_token() }}'              },              success: function(*response*) {                  alert(response.message);              },              error: function(*xhr*) {                  alert(xhr.responseJSON.message);              }          });      });  });  </script>  @endsection  Auth @extends('layouts.app')  @section('content')  <div class="form-container">      <h2>Login</h2>      <form method="POST" action="{{ route('login') }}">          @csrf          <div class="form-group">              <label for="email">Email</label>              <input type="email" name="email" id="email" class="@error('email') error @enderror" value="{{ old('email') }}">              @error('email')                  <p class="error-message">{{ $message }}</p>              @enderror          </div>          <div class="form-group">              <label for="password">Password</label>              <input type="password" name="password" id="password" class="@error('password') error @enderror">              @error('password')                  <p class="error-message">{{ $message }}</p>              @enderror          </div>          <div class="form-group">              <label><input type="checkbox" name="remember"> Remember Me</label>          </div>          <button type="submit">Login</button>      </form>  </div>  @endsection  @extends('layouts.app')  @section('content')  <div class="form-container">      <h2>Register</h2>      <form method="POST" action="{{ route('register') }}">          @csrf          <div class="form-group">              <label for="name">Name</label>              <input type="text" name="name" id="name" class="@error('name') error @enderror" value="{{ old('name') }}">              @error('name')                  <p class="error-message">{{ $message }}</p>              @enderror          </div>          <div class="form-group">              <label for="email">Email</label>              <input type="email" name="email" id="email" class="@error('email') error @enderror" value="{{ old('email') }}">              @error('email')                  <p class="error-message">{{ $message }}</p>              @enderror          </div>          <div class="form-group">              <label for="department">Department</label>              <input type="text" name="department" id="department" class="@error('department') error @enderror" value="{{ old('department') }}">              @error('department')                  <p class="error-message">{{ $message }}</p>              @enderror          </div>          <div class="form-group">              <label for="password">Password</label>              <input type="password" name="password" id="password" class="@error('password') error @enderror">              @error('password')                  <p class="error-message">{{ $message }}</p>              @enderror          </div>          <div class="form-group">              <label for="password\_confirmation">Confirm Password</label>              <input type="password" name="password\_confirmation" id="password\_confirmation">          </div>          <div class="form-group">              <label><input type="checkbox" name="remember"> Remember Me</label>          </div>          <button type="submit">Register</button>      </form>  </div>  @endsection |

Web.php

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| <?php  use App\Http\Controllers\AuthController;  use App\Http\Controllers\CourseController;  use App\Http\Controllers\ProfileController;  use Illuminate\Support\Facades\Route;  use Illuminate\Support\Facades\Auth;  Route::get('/', function () {      if (Auth::check()) {          return redirect()->route('dashboard');      } else {          return redirect()->route('login');      }  });  Route::get('/register', [AuthController::class, 'showRegister'])->name('register');  Route::post('/register', [AuthController::class, 'register']);  Route::get('/login', [AuthController::class, 'showLogin'])->name('login');  Route::post('/login', [AuthController::class, 'login']);  Route::post('/logout', [AuthController::class, 'logout'])->name('logout');  Route::middleware('auth')->group(function () {      Route::get('/dashboard', fn() => view('dashboard'))->name('dashboard');      Route::get('/courses', [CourseController::class, 'index'])->name('courses.index');      Route::post('/courses/register', [CourseController::class, 'register'])->name('courses.register');      Route::post('/courses/unregister', [CourseController::class, 'unregister'])->name('courses.unregister');      Route::get('/profile', [ProfileController::class, 'show'])->name('profile.show');      Route::get('/profile/edit', [ProfileController::class, 'edit'])->name('profile.edit');      Route::put('/profile', [ProfileController::class, 'update'])->name('profile.update');      Route::get('/profile/export/json', [ProfileController::class, 'exportJson'])->name('profile.export.json');      Route::get('/profile/export/xml', [ProfileController::class, 'exportXml'])->name('profile.export.xml');  }); |