



Advanced Web Engineering Component-2 Documentation

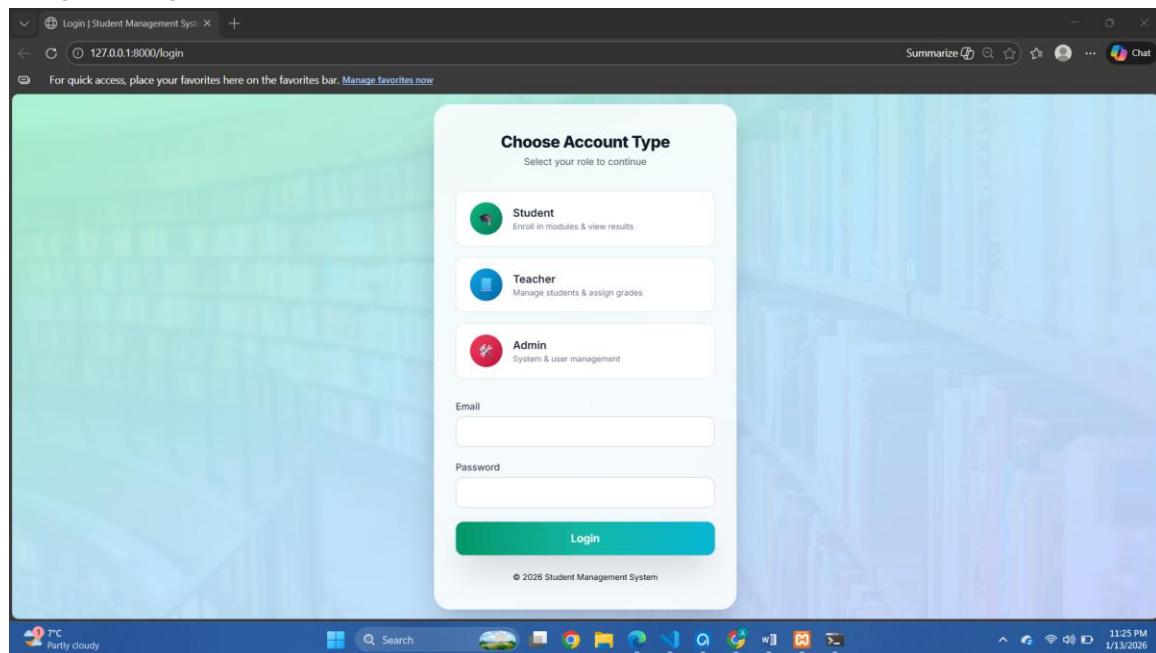
Student Name: Aastha Dhital

ID : c7466810

Group : 'C'

Screenshots of the UI

Login Page:



Admin Dashboard:

The screenshot shows the 'Educational Admin Site' dashboard. On the left, a sidebar lists 'Admin Dashboard', 'Dashboard', 'Modules', 'Teachers', 'Students', and 'Old Students'. A message at the top says 'For quick access, place your favorites here on the favorites bar. Manage favorites now'. The main area features a 'Welcome, Admin User' message and a search bar. Below are four cards: 'Modules' (Create & manage modules), 'Students' (Enrollments & status), 'Teachers' (Staff & assignments), and 'Old Students' (PASS/FAIL history). At the bottom left, it says 'Logged in as Admin User' and has a 'Logout' button.

Admin's modules section:

The screenshot shows the 'Academic Modules' section of the dashboard. The sidebar shows 'Admin Dashboard', 'Dashboard', 'Modules' (selected), 'Teachers', 'Students', and 'Old Students'. The main area has a 'Module List' table titled 'All academic modules in the system'. The table includes columns for 'Module', 'Status', and 'Actions'. The data is as follows:

Module	Status	Actions
Academic English	Inactive	Edit Students Toggle Archive
Advanced Database	Active	Edit Students Toggle Archive
Advanced Multimedia	Active	Edit Students Toggle Archive
Advanced Software	Inactive	Edit Students Toggle Archive
Advanced Web Engineering	Active	Edit Students Toggle Archive
Effective Communication	Active	Edit Students Toggle Archive
Engineering	Active	Edit Students Toggle Archive
Fundamentals of Computing	Inactive	Edit Students Toggle Archive
Fundamentals of Database	Active	Edit Students Toggle Archive
Fundamentals of Multimedia	Active	Edit Students Toggle Archive
Fundamentals of Mathematics	Active	Edit Students Toggle Archive

The bottom of the screen shows a taskbar with various icons and a system tray indicating the date and time as 11:26 PM on 1/13/2026.

Admin's teachers section:

The screenshot shows the 'Teachers' section of the Educational Admin Site. On the left sidebar, under 'Teachers', there is a list of teachers: Aesthesia, Bhabuk, Grishma, Nawal, Ongreen, and Prithu. Each teacher's row contains their name, email, assigned modules (represented by colored buttons), and the date they were assigned. An 'Add Teacher' button is located at the top right of the table area.

Name	Email	Assigned Modules	Assigned Date	Actions
Aesthesia	aesthesia@gmail.com	Project Management, Internet of Things, Mobile Applications, Fundamentals of Networking, Philosophy, Science, Maths, Engineering, Mathematics	13 Jan 2026	Remove
Bhabuk	bhabuk@gmail.com	Fundamentals of Database, Fundamentals of Multimedia, Science, Engineering, Advanced Multimedia, Social Studies	13 Jan 2026	Remove
Grishma	grishma@gmail.com	Academic English, Philosophy, Science, Maths, Engineering, Mathematics, Advanced Multimedia	13 Jan 2026	Remove
Nawal	nawal@gmail.com	Academic English, Internet of Things, Mobile Applications, Fundamentals of Networking, Fundamentals of Database, Philosophy, Science, Engineering, Advanced Multimedia, Social Studies	03 Jan 2026	Remove
Ongreen	ongreen@gmail.com	Introduction to Programming, Fundamentals of Programming, Academic English, Project Management, Engineering	27 Dec 2025	Remove
Prithu	prithu@gmail.com	Introduction to Programming, Fundamentals of Programming, Advanced Database, Academic English, Project Management, Mobile Applications, Fundamentals of Database, Fundamentals of Multimedia, Maths, Mathematics	27 Dec 2025	Remove

Admin's students section:

The screenshot shows the 'Students' section of the Educational Admin Site. On the left sidebar, under 'Students', there is a list of students: Birli, Dann Salvatore, and Hari. Each student's row contains their name, email, enrolled modules, and their current status (PASS, In Progress). A 'Role / Change Role' dropdown is present for each student, with 'Student' selected and an 'Update' button. A note states 'Cannot change role while active modules exist'.

Name	Email	Enrollments	Role / Change Role
Birli	birli@gmail.com	Introduction to Programming (Enrolled: 01 Jan 2026) - PASS, Internet of Things (Enrolled: 01 Jan 2026) - PASS, Operating System (Enrolled: 04 Jan 2026) - In Progress	Student <button>Update</button>
Dann Salvatore	dannsalvatore@gmail.com	Fundamentals of Networking (Enrolled: 01 Jan 2026) - PASS, Introduction to Programming (Enrolled: 01 Jan 2026) - PASS, Internet of Things (Enrolled: 01 Jan 2026) - PASS	Student <button>Update</button>
Hari	hari@gmail.com	Advanced Database (Enrolled: 10 Jan 2026) - In Progress, Effective Communication (Enrolled: 10 Jan 2026) - In Progress	Student <button>Update</button>

Admin's old student's section:

The screenshot shows a web-based administrative interface titled "Educational Admin Site - Administrator Dashboard". On the left, a sidebar menu includes "Admin Dashboard", "Dashboard", "Modules", "Teachers", "Students", and "Old Students" (which is highlighted). The main content area is titled "Old Students" and displays a table of completed modules. The table has columns for "Student", "Completed Module", "Completion Date", and "Result".

Student	Completed Module	Completion Date	Result
Aukamsha	Introduction to Programming	03 Jan 2026	PASS
Prapti	Introduction to Programming	13 Jan 2026	PASS
	Internet of Things	13 Jan 2026	PASS
	Fundamentals of Programming	13 Jan 2026	PASS
	Academic English	13 Jan 2026	PASS

Below the table, a message states: "Catarina has no completed modules". The bottom left of the screen shows a "Logout" button and a "Logged in as Admin User". The bottom right shows the system time as "11:27 PM" and the date as "1/13/2026".

Student's Registration Form:

The screenshot shows a web-based registration form titled "Student Registration" from a "Student Management System". The form is designed to create a new account. It includes fields for "Full Name", "Email", "Password", and "Confirm Password". There is also a "Create Account" button and a link for existing users to "Login here". The bottom of the page includes a copyright notice: "© 2026 Student Management System".

At the bottom of the screen, there is a taskbar with various icons and a system status bar showing "11:28 PM" and "1/13/2026".

Student's dashboard:

The screenshot shows the 'My Modules' section of the student dashboard. It displays a list of enrolled modules:

- Fundamentals of Database (Enrolled on 28 Dec 2025, Active)
- Fundamentals of Computing (Enrolled on 29 Dec 2025, Active)
- Operating System (Enrolled on 13 Jan 2026, Active)
- Advanced Multimedia (Enrolled on 13 Jan 2026, Active)

Below this, there is a section for 'Available Modules' with the following options:

- Advanced Database (Open for enrollment)
- Effective Communication (Open for enrollment)
- Engineering (Open for enrollment)
- Fundamentals of Multimedia (Open for enrollment)
- Fundamentals of Networking (Open for enrollment)
- Fundamentals of Programming (Open for enrollment)

The dashboard also includes a sidebar with 'Student Panel' and 'Completed Courses' sections, and a top navigation bar with various icons.

The screenshot shows the 'Completed Courses' section of the student dashboard. It displays a list of completed courses:

- Mobile Applications (Completed on 13 Jan 2026, FAIL)
- Advanced Web Engineering (Completed on 13 Jan 2026, PASS)
- Internet of Things (Completed on 03 Jan 2026, FAIL)
- Introduction to Programming (Completed on 01 Jan 2026, PASS)

The dashboard also includes a sidebar with 'Student Panel' and 'My Modules' sections, and a top navigation bar with various icons.

Teacher's Dashboard:

The screenshot shows the 'My Assigned Modules' section of the teacher dashboard. It displays a list of modules assigned by admin, including their names, descriptions, and student counts. The modules listed are: Internet of Things, Introduction to Programming, Advanced Web Engineering, Advanced Database, maths, Mathematics, and Social Studies. Each module has an 'Open' button next to it.

Module	Description	Active	Action
Internet of Things	View active & completed students	0	Open
Introduction to Programming	View active & completed students	0	Open
Advanced Web Engineering	View active & completed students	1	Open
Advanced Database	View active & completed students	1	Open
maths	View active & completed students	0	Open
Mathematics	View active & completed students	0	Open
Social Studies	View active & completed students	0	Open

The screenshot shows the 'Internet of Things - Students' section of the teacher dashboard. It displays information about students enrolled in the module, including their names, results, and completion dates. There are 7 students listed.

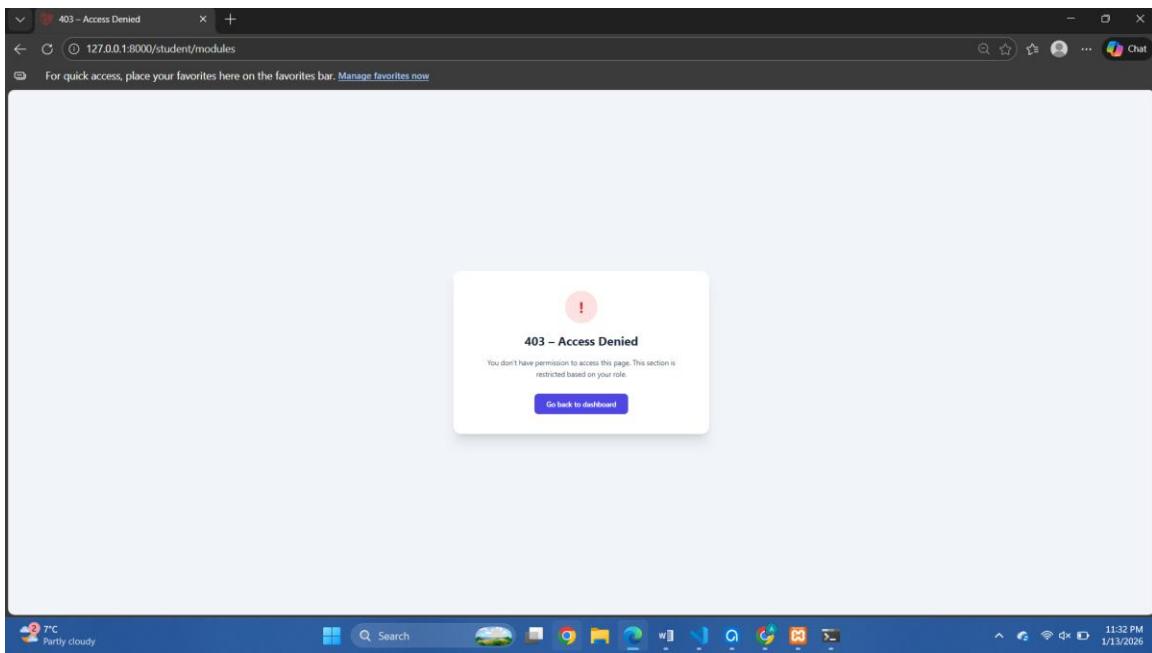
Student	Result	Completed At
Daren Salvatore	PASS	03 Jan 2026, 06:40
Shrejal	FAIL	30 Dec 2025, 01:08
Isha	FAIL	03 Jan 2026, 06:40
Prithu	PASS	03 Jan 2026, 06:40
Binti	FAIL	13 Jan 2026, 11:20
Prapti	PASS	13 Jan 2026, 11:20
Jeny	PASS	13 Jan 2026, 13:37

The screenshot shows a web browser window titled "Advanced Web Engineering - Studio". The URL is 127.0.0.1:8000/teacher/modules/4/students. The page header says "Good Evening, Rizzy". The main content area is titled "Advanced Web Engineering" and displays "Manage students enrolled in this module. Mark pass or fail once completed.". It shows two sections: "Active Students" and "Completed Students". Under "Active Students", there is one student named Jerry, enrolled at 13 Jan 2020, 12:13, with a "PASS" button. Under "Completed Students", there is one student named Ishita, completed at 13 Jan 2020, 11:21, with a "PASS" button. The left sidebar has "Teacher Panel" and "My Modules" buttons, and a "Logout" button at the bottom. The taskbar at the bottom shows various application icons and the system clock at 11:30 PM on 1/13/2026.

Old-student Dashboard

The screenshot shows a web browser window titled "Completed Modules". The URL is 127.0.0.1:8000/old-student/dashboard. The page header says "Good Evening, Prapti". The main content area is titled "Completed Modules" and displays "This page shows all modules you have completed.". It lists four completed modules, each with a "Status: PASS" and a "Completed on: 13 Jan 2020" message. The left sidebar has "Student Panel" and "Completed Courses" buttons, and a "Logout" button at the bottom. The taskbar at the bottom shows various application icons and the system clock at 11:32 PM on 1/13/2026.

Forbidden when old student tries accessing the current modules page



Checklist:

Checklist: Aastha Dhital Student ID: 77466810		
Administrator Features	YES / NO	Timestamp:
Can add a new module	YES	created_at (modules table)
Can add and remove teachers	YES	created_at / deleted_at (users table)
Can remove students from a module	YES	enrolled_at removed (module_user pivot)
Can attach (assign) teacher to a module	YES	created_at (module_teacher pivot)
Can change the status of users to different roles	YES	updated_at (users table)
Can toggle modules to being available or unavailable	YES	updated_at (modules table)
Teacher Features		
Can view modules that they are assigned to	YES	created_at (module_teacher pivot)
Can view students that are attached to the module	YES	enrolled_at (module_user pivot)
Can set PASS / FAIL to students which will add a timestamp for when this is done	YES	completed_at (module_user pivot)
Student / Old Student		
Can register on the site	YES	created_at (users table)
Can enrol (actively study) a maximum of 4 modules	YES	enrolled_at (module_user pivot)
Can see a history of completed modules indicating PASS / FAIL	YES	completed_at (module_user pivot)
Can enrol on modules if not at the current maximum	YES	enrolled_at (module_user pivot)
OLD STUDENTS only see a list of completed modules with PASS / FAIL status	YES	completed_at (module_user pivot)
Modules		
Can have a maximum of 10 students enrolled - (this does not include students who have completed a module)	YES	enrolled_at (module_user pivot)
Archiving (making unavailable) does not delete the module - only makes new enrolments inactive	YES	updated_at (modules table)
Modules when undertaken should store a Student Start Date, Completion Date and PASS/FAIL	YES	enrolled_at / completed_at (module_user pivot)

Completed Tests:

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\xampp\htdocs\component-2-laravel-project-aastha2dhital> npm run dev
→ APP_URL: http://localhost
PS C:\xampp\htdocs\component-2-laravel-project-aastha2dhital> php artisan test
● >>

  PASS  Tests\Feature\AdminRoleChangeProtectionTest
    ✓ admin can change role and active modules are removed

  PASS  Tests\Feature\Auth\AuthenticationTest
    ✓ login screen can be rendered
    ✓ users can authenticate using the login screen
    ✓ users can not authenticate with invalid password
    ✓ users can logout

  PASS  Tests\Feature\Auth\EmailVerificationTest
    ✓ email verification screen can be rendered
    ✓ email can be verified
    ✓ email is not verified with invalid hash

  PASS  Tests\Feature\Auth>PasswordConfirmationTest
    ✓ confirm password screen can be rendered
    ✓ password can be confirmed
    ✓ password is not confirmed with invalid password

  PASS  Tests\Feature\Auth>PasswordResetTest
    ✓ reset password link screen can be rendered
    ✓ reset password link can be requested
    ✓ reset password screen can be rendered
    ✓ password can be reset with valid token

  PASS  Tests\Feature\Auth>PasswordUpdateTest
    ✓ password can be updated
    ✓ correct password must be provided to update password
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\xampp\htdocs\component-2-laravel-project-aastha2dhital> php artisan test
>>
✓ password can be reset with valid token

[PASS] Tests\Feature\Auth>PasswordUpdateTest
✓ password can be updated
✓ correct password must be provided to update password

[WARN] Tests\Feature\Auth\RegistrationTest
✓ registration screen can be rendered
- new users can register → Registration is handled by a Livewire component, not a standard POST request.

[PASS] Tests\Feature\ExampleTest
✓ root redirects to dashboard

[PASS] Tests\Feature\ModuleCapacityTest
✓ module cannot exceed ten students

[PASS] Tests\Feature\OldStudentAccessTest
✓ old student cannot access student routes

[PASS] Tests\Feature\ProfileTest
✓ profile page is displayed
✓ profile information can be updated
✓ email verification status is unchanged when the email address is unchanged
✓ user can delete their account
✓ correct password must be provided to delete account

[PASS] Tests\Feature\StudentEnrollmentLimitTest
✓ student cannot enrol in more than four modules

Tests: 1 skipped, 27 passed (64 assertions)
Duration: 45.48s

PS C:\xampp\htdocs\component-2-laravel-project-aastha2dhital>
```