

Verification and Validation Document

Feature	Verification	Validation
1. Log-in	The log-in button should authenticate user credentials and redirect to the dashboard if credentials are correct.	<p><u>Test Case 1</u>: Verify log-in button visibility and clickability.</p> <p>Steps:</p> <ol style="list-style-type: none">1. Navigate to the log-in page.2. Observe the log-in button.3. Click the log-in button. <p>Expected Result: Button is visible, clickable, and initiates login.</p> <p><u>Test Case 2</u>: Verify redirection on successful login.</p> <p>Steps:</p> <ol style="list-style-type: none">1. Enter valid credentials and click the log-in button. <p>Expected Result: Redirect to the dashboard.</p>
2. Sign-up	The sign-up form should allow users to create an account and validate required fields.	<p><u>Test Case 1</u>: Verify successful account creation.</p> <p>Steps:</p> <ol style="list-style-type: none">1. Navigate to the sign-up page.2. Fill in required fields with valid data. Submit the form. <p>Expected Result: Account is created, user is redirected to the welcome page.</p> <p><u>Test Case 2</u>: Verify error message for missing fields.</p> <p>Steps:</p> <ol style="list-style-type: none">1. Leave required fields empty and submit the form. <p>Expected Result: Error messages displayed for missing fields.</p>

3. Dashboard	The dashboard should display course units, calendar, grades list, task management, GPA calculator, user guide, and reminders.	<p><u>Test Case 1</u>: Verify dashboard displays all elements.</p> <p>Steps:</p> <ol style="list-style-type: none"> 1. Log in and navigate to the dashboard. <p>Expected Result: All elements (course units, calendar, grades list, task management, GPA calculator, user guide, reminders) are displayed.</p> <p><u>Test Case 2</u>: Verify interaction with a dashboard element (e.g., task management).</p> <p>Steps:</p> <ol style="list-style-type: none"> 1. Log in, navigate to the dashboard, interact with task management. <p>Expected Result: Task management functions correctly.</p>
4. Reminder Notification of Assessments	Reminders should notify users of upcoming assessments.	<p><u>Test Case 1</u>: Verify reminder notification is received for an assessment.</p> <p>Steps:</p> <ol style="list-style-type: none"> 1. Set an assessment with a reminder. Wait for the reminder time. <p>Expected Result: Notification is received.</p> <p><u>Test Case 2</u>: Verify reminder details accuracy.</p> <p>Steps:</p> <ol style="list-style-type: none"> 1. Set an assessment reminder and check notification details. <p>Expected Result: Notification details match the assessment.</p>

5. Grades Page	The grades page should display a list of grades for the user.	<p><u>Test Case 1:</u> Verify grades page displays grades.</p> <p>Steps:</p> <ol style="list-style-type: none"> 1. Log in, navigate to the grades page. <p>Expected Result: List of grades is displayed.</p> <p><u>Test Case 2:</u> Verify grade details accuracy.</p> <p>Steps:</p> <ol style="list-style-type: none"> 1. Check specific grade details on the grades page. <p>Expected Result: Grade details are accurate.</p>
6. Task Page	The task page should display a list of tasks for the user.	<p><u>Test Case 1:</u> Verify task page displays tasks.</p> <p>Steps:</p> <ol style="list-style-type: none"> 1. Log in, navigate to the task page. <p>Expected Result: List of tasks is displayed.
</p> <p><u>Test Case 2:</u> Verify task completion functionality.</p> <p>Steps:</p> <ol style="list-style-type: none"> 1. Mark a task as complete. <p>Expected Result: Task is marked as complete.</p>
7. Enter Task	Users should be able to enter new tasks into the system.	<p><u>Test Case 1:</u> Verify new task creation.</p> <p>Steps:</p> <ol style="list-style-type: none"> 1. Navigate to the task page, enter a new task. <p>Expected Result: New task is created and displayed.</p> <p><u>Test Case 2:</u> Verify error message for missing task details.</p> <p>Steps:</p> <ol style="list-style-type: none"> 1. Attempt to create a task with missing details. <p>Expected Result: Error message is displayed.</p>

8. GPA Calculator	The GPA calculator should accurately calculate the user's GPA based on entered grades.	<p><u>Test Case 1:</u> Verify GPA calculation with valid data.</p> <p>Steps:</p> <ol style="list-style-type: none"> 1. Enter grades into the GPA calculator. <p>Expected Result: Accurate GPA is calculated and displayed.</p> <p><u>Test Case 2:</u> Verify error handling for invalid data.</p> <p>Steps:</p> <ol style="list-style-type: none"> 1. Enter invalid data into the GPA calculator. <p>Expected Result: Error message is displayed.</p>
9. Add Units	Users should be able to add course units to their profile.	<p><u>Test Case 1:</u> Verify new unit addition.</p> <p>Steps:</p> <ol style="list-style-type: none"> 1. Navigate to the add units page, add a new unit. <p>Expected Result: New unit is added and displayed.</p> <p><u>Test Case 2:</u> Verify error message for missing unit details.</p> <p>Steps:</p> <ol style="list-style-type: none"> 1. Attempt to add a unit with missing details. <p>Expected Result: Error message is displayed.</p>
10. Calendar	The calendar should display upcoming events and allow users to add new events.	<p><u>Test Case 1:</u> Verify calendar displays events.</p> <p>Steps:</p> <ol style="list-style-type: none"> 1. Navigate to the calendar page. <p>Expected Result: List of upcoming events is displayed.</p> <p><u>Test Case 2:</u> Verify new event creation.</p> <p>Steps:</p> <ol style="list-style-type: none"> 1. Add a new event to the calendar. <p>Expected Result: New event is added and displayed on the calendar.</p>

