



# Pangasinan State University

## Urdaneta City Campus

### Assignment 1 (Finals)

Application Development and Emerging Technologies

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Date of Submission:

Block: BSIT - 3A WM

Points: 20pts

**Scenario:** Your school is planning to deploy a new LMS. You are part of the testing committee.

Before deploying the LMS, login and authentication will be tested using valid and invalid credentials to ensure secure access. Enrollment and course access will be tested to verify that students can enroll correctly and only access their assigned courses. Quizzes and the Gradebook will be tested by submitting quizzes and checking if scores are computed and displayed accurately. Assignment upload will be tested using different file types and sizes to ensure successful submission before deadlines. UI usability will be tested to check navigation clarity, responsiveness, and ease of use. Issues found during testing will be fixed before full deployment.

Then, answer the following questions:

1. Explain why Development Testing is important before the LMS is handed to QA.

**Answer:**

Development Testing helps detect and fix bugs early in the system. It ensures core LMS features work properly before QA testing begins. This reduces major issues later and saves time and cost.

2. Give an example of User Testing in an LMS and explain why it is necessary.

**Answer:**

User Testing can involve students submitting assignments and taking quizzes. It is necessary because real users can identify usability and navigation issues. Their feedback helps improve the overall user experience.

3. Why is Release Testing important for an LMS used by thousands of students?\

**Answer:**

User Testing can involve students submitting assignments and taking quizzes. It is necessary because real users can identify usability and navigation issues. Their feedback helps improve the overall user experience.

4. Provide one scenario where Test-Driven Development can help improve the LMS.

**Answer:**

TDD can be used when developing the quiz grading feature. Tests are written first to ensure correct score calculation. This reduces bugs and improves system reliability.





**Pangasinan State University**  
**CC106 – Application Development and Emerging Technologies**

**BASIC INFORMATION**

<b>Name:</b>		<b>Block:</b>	
<b>Activity:</b>	<b>Assignment 2</b>	<b>Date Submitted:</b>	

**TECHNICAL DESCRIPTION**

<b>Introduction</b>	<p>Include:</p> <p>App names and platforms (e.g., mobile or web).</p> <p>What each app is used for.</p> <p>Why you find their user interfaces interesting or worth analyzing.</p> <p>Example:</p> <p>This report analyzes two applications: Canva (Web App) and Grab (Mobile App). Canva is a design tool that enables users to create visuals easily, while Grab is a ride-hailing and delivery app. These apps were chosen because they both demonstrate clean, modern UI design and user-centered layouts.</p>		
<b>Design Analysis</b>	<b>Design Aspect</b>	<b>App 1: Canva (Web)</b>	<b>App 2: Grab (Mobile)</b>
	<b>Layout</b>	Your finding	Your finding
	<b>Color Scheme</b>	Your finding	Your finding
	<b>Typography</b>	Your finding	Your finding
	<b>Navigation</b>	Your finding	Your finding
	<b>Feedback</b>	Your finding	Your finding
	<p><b>Short Explanations here for:</b></p> <p>Identify at least three (3) modern design principles each app follows and explain why they are effective.</p> <p>Mobile App</p> <p>a)</p> <p>b)</p> <p>c)</p> <p>Web App</p> <p>a)</p> <p>b)</p> <p>c)</p>		
<b>Conclusion and Recommendation</b>	<p>Wrap up your report with final insights.</p> <p><b>Include:</b></p> <ul style="list-style-type: none"><li>What you learned about modern UI design.</li></ul>		

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|  | <ul style="list-style-type: none"><li>• How these principles contribute to good application development.</li><li>• A takeaway message about the importance of user-centered design.</li></ul> |
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