Pangasinan State University
Urdaneta City Campus

Assignment 1 (Finals)
Application Development and Emerging Technologies

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Block: BS IT – 3A	Points: 20pts

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

Instructions: Create a short testing plan (5-7 sentences) describing how you will test the following LMS features before full deployment:

- ✓ Login and authentication
- ✓ Enrollment and course access
- ✓ Quizzes and Gradebook
- ✓ Assignment upload
- ✓ User interface (UI) usability

➢ I will start by checking the login and authentication to make sure that my credentials work and that users are directed to the right dashboard. Then, I will test the enrollment and course access by logging in as a student to confirm that I can only see the classes I'm actually signed up for. I will also go through the quizzes and gradebook myself to ensure that every point I earn is recorded instantly and accurately. To prevent any technical headaches, I will test assignment uploads by submitting different file types to make sure the system stays stable under pressure. Finally, I will personally navigate the UI usability on both my phone and laptop to ensure the layout feels smooth and easy to use.

Then, answer the following questions:

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

➢ Development Testing is important before the LMS is handed to QA because it allows me to catch small errors as I write the code, which prevents the QA team from getting bogged down by simple bugs that are easy to fix early on.

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

➢ An example of User Testing in an LMS is asking a few classmates to try and find their syllabus without any help; this is necessary because it reveals if the design is actually as simple as I think it is.

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

➢ Release Testing is important for an LMS used by thousands of students because I need to be certain that the system can handle a massive surge of users during midterms or finals without slowing down or crashing.

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

➢ One scenario where Test-Driven Development can help improve the LMS is when I'm building a feature for calculating final grades, because writing the tests first ensures that I've accounted for every possible grading scenario before I even start writing the logic.