

	Pangasinan State University Urdaneta City, Pangasinan	READING LOG	
Name	Patrick John S. Tomas	Date	Aug 29, 2023
Block	A	Course	Bachelor of Science in Information Technology
Introduction to Application Development and Emerging Technologies			
<p>Application Development – process of creating a computer program or a set of programs to perform a different task that a client/business requires.</p> <ul style="list-style-type: none">App building process: gathering requirements, designing prototypes, testing, implementation, and integration. <p>Software Engineering - it is a branch of engineering that focuses on developing software products. It involves applying a systematic, disciplined, and quantifiable approach to software development, operation, and maintenance — essentially applying engineering principles to software.</p> <ul style="list-style-type: none">Significance of software engineering: reduces complexity, handling big projects, to minimize software costs, to decrease time, effectiveness, and reliable software.Categories of Software Products: application software (office suites, word processors, spreadsheets, etc.), system software (operating systems, device drivers, desktop environments, etc.) and, computer programming tools (assemblers, compilers, linkers, etc.)Essential Attributes of Good Software Products: functionality, usability, reliability, performance, security, maintainability, reusability, scalability, and testability.Software process: Waterfall - a linear approach to software development with distinct phases, Agile - a flexible, iterative approach to software development, with an emphasis on rapid prototyping and continuous delivery, Scrum - a popular Agile methodology that emphasizes teamwork, iterative development, and a flexible, adaptive approach to planning and management, and DevOps - a set of practices that aims to improve collaboration and communication between development and operations teams, with an emphasis on automating the software delivery process.Common software issues: corrupt drivers, malware attacks, slow downloading and uploading, new applications don't install, and outdated systems.Software engineering ethics: Software engineers shall commit themselves to “making the analysis, specification, design, development, testing, and maintenance of software a beneficial and respected profession.” <p>Emerging Technologies - technologies whose development, practical applications, or both are still largely unrealized, such that they are figuratively emerging into prominence from a background of nonexistence or obscurity.</p> <ul style="list-style-type: none">Characteristics of emerging technology: not defined by newness, coming into being, not-yet fully understood or researched, and unfulfilled but promising potential. <p>Some of industry 4.0 trends and innovations in 2024: Artificial Intelligence (AI), Human Augmented and Extended Reality, Advanced Robotics, and Network and Connectivity.</p>			
<p>Introduction TO Application Development AND Emerging Technologies - INTRODUCTION TO APPLICATION - Studocu Software Engineering - Definition, usage, and Best Practices (castsoftware.com) Importance of Software Engineering: Key Reasons (knowledgehut.com) Category:Software - Wikipedia Software Engineering Characteristics of good Software - GeeksforGeeks Software Processes in Software Engineering - GeeksforGeeks Common Software Problems & How You Can Fix Them - Programmers.io Everything to Know About Software Engineering Ethics Fellow.app The Defining Characteristics of Emerging Technologies and Emerging Practices – George Veletsianos, PhD Top 10 Industry 4.0 Trends in 2024 StartUs Insights (startus-insights.com)</p>			