# Module One: Portfolio Milestone

## System Selection - Paper

## For this first milestone, you must decide on the system and submit the system you have selected to your instructor. Remember, it is not necessary to choose one of these topics, but these are good options if you are having trouble coming up with an idea.

## An In-depth Analysis of Metropolitan Area Network planning in ABC (Case Study with MAN networks in ABC)

## Analyzing the financial recordkeeping and purchasing of SMEs within tech departments in ABC (A Comparison of SMEs that both do and don't utilize financials records from ABC)

## Design and Implementation of a Software Life Expectancy Model for a Software Program

## Design and Implementation of a Project Management API using Python and Blockchain Technology

## A Review of the Software Project Abandonment in ABC (A case study of ABC)

## An In-depth Analysis of the Effects of Poor or Non-standard Naming Conventions and storage on SAN and NAS systems in ABC (A case study of DHL ABC)

## Analyzing the relevance of Soft Skills in Technical Employees in Businesses in ABC (A case study of ABC Company)

## Analyzing the role of project management soft skills to increase project success rates - Review of statistically meaningful and documented evidence in ABC Company

## Submit a brief paragraph describing your selection.

For my portfolio project, I am choosing to design and implement a Project Management API in Python backed by a lightweight blockchain-style ledger. Rather than deploying to a public chain (e.g., Ethereum), I will implement a local, append-only chain of hashed blocks to store project artifacts such as tasks, status updates, approvals with hash + previous hash and timestamps. The API (FastAPI/Flask) will provide endpoints to create tasks, update status, and query audit history, illustrating how blockchain concepts can enhance project. The deliverables will include system design/flowchart, data model documentation, risk identification/compliance, working Proof of Concept, and testing.