PROJECT: Analysis, Design and Development of a Banking System.

1. **Requirement Analysis**

- ·   Requirement Analysis and Specification

2. **Architectural Design**

- Select an architectural style for your problem statement. (Banking system case study).
- Describe your architecture with multiple views and view-points. (See conceptual model of ISO/IEC/IEEE 42010).
- Architecture Evaluation (Qualitatively)
- Architecture Evaluation (Quantitatively by using metrics).
- How your proposed architecture addresses complexity, reusability, and maintainability.

3. **Detail Design**

- Identify Classes of each component by extracting nouns from the requirements.
- Eliminate irrelevant/ vague classes.
- Identify possible associations
- Identify attributes of classes
- Identify functions of classes using sequence diagram. (Sequence diagram would help you to find out the interaction between objects).

Note: Follow design patterns.

4. **Coding**

·   Transform your design into code.

5. **Testing**

·   Write test cases for your functional requirements.