*Software Engineering II*

**Activity: Requirements Elicitation and Analysis**

**Objective:**

Practice requirements gathering and analysis skills by working through a scenario to understand and document software requirements.

**Instructions:**

**Step 1: Introduction**

One member will Start with a brief introduction to the importance of requirements gathering in the software development life cycle. Discuss how a clear understanding of requirements is crucial for successful project outcomes.

**Step 2: Scenario Presentation**

Scenario: You are part of a development team working on a new online banking system for a financial institution. The system should allow users to check account balances, transfer funds, and view transaction history. Additionally, the system should have a high level of security to protect user information.

**Step 3: Group Brainstorming**

Each group is tasked with brainstorming and listing potential requirements for the given scenario. Encourage creativity and think about both functional and non-functional requirements.

**Step 4: Requirements Prioritization**

Once each group has a list of requirements, Prioritize the requirements based on importance and criticality. Discuss the challenges and considerations involved in prioritizing requirements.

**Step 5: Group Presentation**

Each group presents their identified requirements and prioritization to the rest of the class. Have a discussions and questions from other groups to simulate real-world scenarios where collaboration and communication are key.

**Step 6: Refinement and Documentation**

After the presentations, Each group will refine and document the requirements. Emphasize the importance of clear and unambiguous documentation for effective communication with stakeholders and the development team.

**Step 7: Review and Feedback**

Conduct a review of the documented requirements with the entire class. Discuss common challenges faced by different groups and how they were addressed. Provide constructive feedback on the quality of the requirements and prioritization.

Step 8: Conclusion

Wrap up the activity with a brief discussion on the importance of continuous communication and collaboration between stakeholders, developers, and testers throughout the software development life cycle.

Homework/Extended Activity:

For homework or as an extended activity, Research and write a short reflection on the importance of requirements gathering and analysis in the context of real-world software projects. I Encourage you to explore the impact of well-defined requirements on project success.