

Tutorial 03: Agile Software Development

Instructions:

Prepare the answers with a PowerPoint file. State your names and student ID on the file.

- Q1. List the FIVE principles of agile methods. For what types of system are agile approaches to development particularly likely to be successful?
- Q2. Extreme programming expresses user requirements as stories (or scenarios). Discuss the advantages and disadvantages of this approach to requirements description.
- Q3. Given the follow scenario, suggest some test cases for testing the ATM machine.

Scenario: Withdraw money from ATM machine

- 1. User inserts the ATM card into the ATM machine.
- 2. The system verifies the card. (If the card is invalid, the system displays an error message and ejects the card).
- 3. If the card is valid, the system prompts the user to enter the PIN code.
- 4. User enters the PIN code.
- 5. The system verifies the account with the Bank. (If the PIN is invalid the system prompts the user to re-enter the PIN).
- 6. If the PIN is valid, the system prompts the user to select an option.
- 7. User selects 'withdraw'.
- 8. The ATM machine asks the user to enter the amount for the withdrawal.
- 9. The system checks for the account balance of the user. (If the balance is not enough, the system displays an error message indicating that withdrawal has failed).
- 10. If the balance is sufficient, the withdrawal is successful. The system displays the successful withdrawal message.
- 11. The ATM machine ejects the ATM card and dispenses the money to the user.