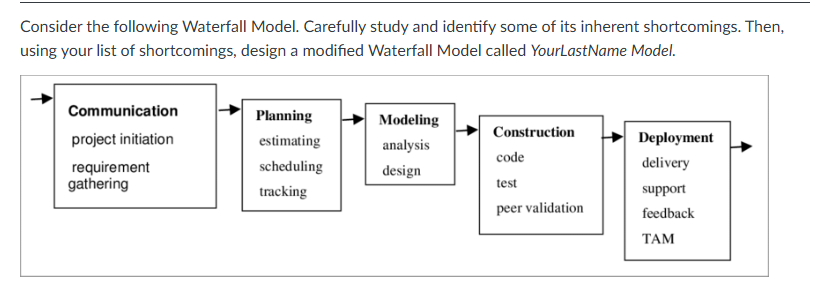
**Critical Thinking**



Answer1 –

**Shortcomings of the Waterfall Model:**

1. **Lack of Iterative Feedback**: The model assumes that once a phase is completed, it doesn't need revisiting. This can lead to missed opportunities for improvements or adjustments based on feedback.
   * Example: A hospital's patient management system software project finalizes its requirements during the initial phase. Later, during development, the hospital requests additional features like telemedicine support, but the model doesn't allow revisiting the requirements phase, causing delays.
2. **Lack of Flexibility**: Once a phase is completed, it's challenging to make changes.
   * Example: A retail company realizes during the implementation phase that the inventory module needs modifications to accommodate new tax rules. Since the design phase is already complete, making changes becomes complex and costly.
3. **Late Testing**: Testing only occurs after the development is complete, which can lead to a higher number of defects.
   * Example: An e-commerce website undergoes testing only after full development. Bugs in the checkout process are discovered late, delaying the release and frustrating stakeholders.
4. **Risk Management**: Risks are not addressed continuously but only at the beginning of the project.
   * Example: A banking software project identifies security risks only during the initial phase. However, new vulnerabilities arise during development, and since continuous risk assessment isn't part of the process, these risks go unnoticed.
5. **Customer Involvement**: Customer feedback is limited to the early and late stages of the process, so the software may not fully meet user expectations once delivered.
   * Example: A government agency requests a document management system. Customers provide feedback during the initial requirements phase but don't see the software until delivery. The final product lacks the features they expected, as their needs evolved during the project

Answer 2– There are note attached to the flowchart – shared with you.

<https://lucid.app/lucidchart/fcf8a871-f6ca-46bf-afd9-ce8bf4f039db/edit?viewport_loc=-1136%2C-133%2C7354%2C3566%2C0_0&invitationId=inv_123a67be-e518-438f-9c6e-78042b5f6f6e>

