The image represents the **Waterfall Model** in Software Engineering, which follows a sequential design process. Here’s a breakdown of each phase:

**Phases of the Waterfall Model:**

1. **Requirements** – Gather and document all system requirements.
2. **Design** – Create the system architecture and design specifications.
3. **Development** – Write the actual code based on the design.
4. **Testing** – Verify that the software functions correctly.
5. **Deployment** – Release the software to the end users.
6. **Maintenance** – Fix bugs, update features, and ensure smooth operation.

**Key Characteristics:**

* **Linear and Sequential:** Each phase must be completed before moving to the next.
* **Documentation Heavy:** Every step is well-documented.
* **Best for Stable Projects:** Works well when requirements are clear and unlikely to change.

A diagram of software engineering

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