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Q. What do you mean by Engineering & How it is different from Software Engineering? As we know there are certain steps Involved in SDLC (software dev. Life cycle) of different models. When we hear like waterfall, RAD, Spiral & Prototype. Suggest a new SDLC that can perform better than these other than Agile.

→ "Engineering" when we hear this word it suggests the working or mechanics/ science behind a thing or a product but as soon as we add on the word "Software" to it, the interpretation moulds and it becomes that, it is the science or technology or a simple code or the steps & Critical thinking involved in building a Software.

In Software Engineering there are many SDLC but the model better than the mentioned four is "Cleanroom Software Engineering model" Because it eliminates defects at the design level w'g formal verification rather than relying on debugging, making it fundamentally different from traditional SDLC model.

* Developer isn't involved, the product undergoes statistical testing by an independent team.


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┌──────────────┐
│ formally     │
│ specify System│
└──────────────┘
                                              error rework.
                                    ┌──────────────────────────┐
┌──────────────┐  ┌─────────┐  ┌─────────┐  ┌─────────┐  ┌─────────┐
│Define Software│→│Construct │→│formally │→│Integrate│
│Increment     │  │structured│  │verify   │  │Increment│
│              │  │program.  │  │Code     │  │         │
└──────────────┘  └─────────┘  └─────────┘  └─────────┘
┌──────────────┐
│ Develop      │
│ Operational  │    ┌─────────┐            ┌──────────────────┐
│ profile.     │    │Design   │            │ Test             │
└──────────────┘    │Stat test│            │ Integrated System│
                    └─────────┘            └──────────────────┘
```