

Enfloyer. Bibe. Gru: n, rodel, cc 9 nf: Stort > br, <) c) state: onroad, offrood) Object vs State repoirs Student SMV: 13, name ComF: attendSession(), respect Org Vol (), complete Assis(), code() 9 states: ill, healthy, medical leave,

Problem Statement:

You are building a collaborative movie scripting tool where multiple users interact with a movie script. A script goes through multiple states during its lifecycle:

shrithar.

Publisho

Draft Moderation

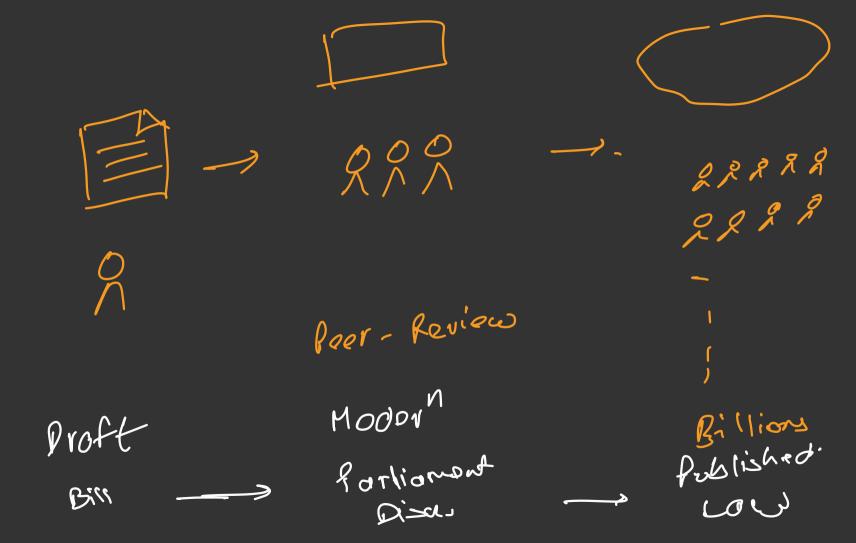
Published

Different roles have different powers in this workflow: scriptwriter: Can create and send scripts to Moderation. actor: Can send scripts to Moderation, but cannot publish. producer: Can publish a script that's in Moderation.

100 - Droft (Sw) Hodorn

Shridher (Sw) Aprit

Robit (A)



What -ifs

Problem

State! you wrote logic using conditional checks based on user roles and documen It led to tightly coupled logic.

Every new role or state meant modifying existing code. [OCP violated] You needed a cleaner and extensible approach.

Goal

Use the State Design Pattern toi Represent each script state as an object (Draftstate, ModerationState,

PublishState)

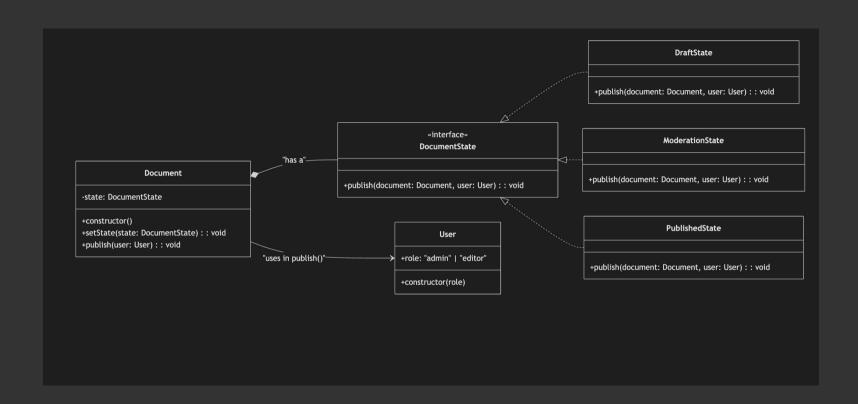
Delegate behavior changes (publish()) to the current state
Allow seamless transitions between states without hardcoded conditionals.

26 PECCV>7

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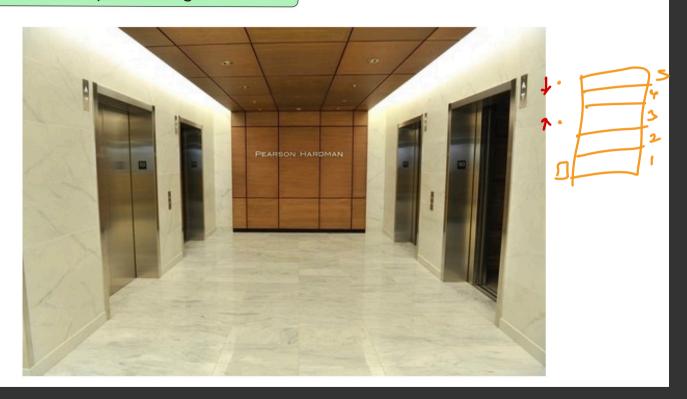
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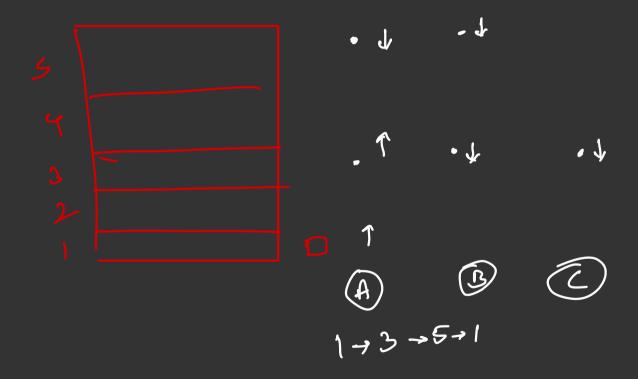
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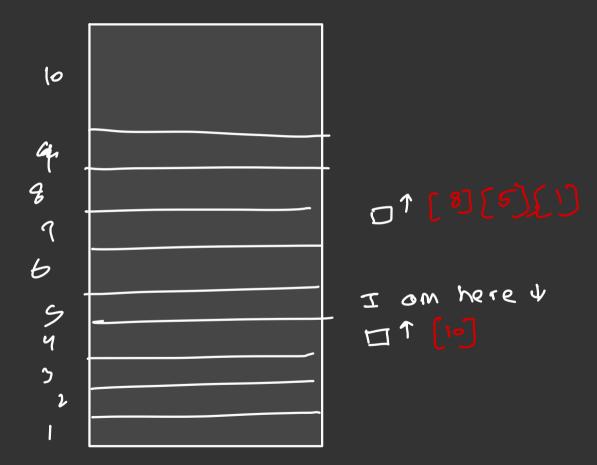


Elevator System Design





7 Ploors -> Esevotos> 1 copocity--> Algo



Elevator System Design

What happens when you press the up button on an elevator from the 4th floor, while it's already moving down from the 10th floor?





Elevator System Design

"Would you consider all these variables during the elevator system design process?"





Budget-friendly lift for residential buildings.



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Price	From ₹818,021	From ₹979,037
Smooth Landings	v	✓
Energy savings up to 75%	~	V
Sleep mode	v	V
Zero lubrication	~	~
Smart IoT technology		v
Big data analytics		~
Advanced monitoring		v
Seamless elevator calling		~
Max Rise	20m	60m
Passenger capacity	up to 408 kg (5-6 p)	up to 1020 kg (>13 p)
Top speed	up to 0.7 m/s	1.0 m/s
Max stops	6	21
Available aesthetics	8	20
Hall fixtures	TBC	Flat and flush
Handrail finishes	Flat only	Stainless steel
Handrail arrangement	Rear or none	Left or Right Hand / Rear
Car operating panels	1	3 variations
Entrance door openings	2	3

Popular Elevator Companies :

- Otis
- Schindler
- Mitsubishi

