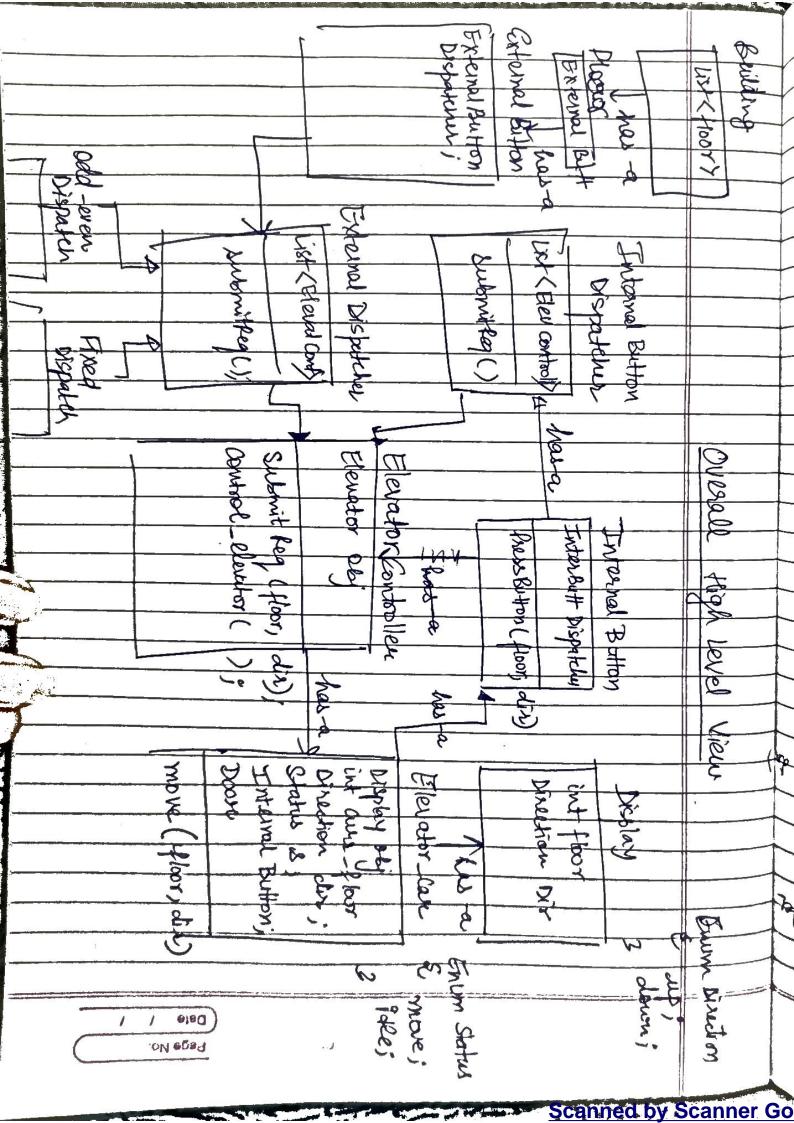
Pege No. Date Levator Design Rough Flow User is an actor no an object 15 fu Lift 1 Building Lift 2 Requirement Clarification Object > How many lift should we > Building > Floor dispatch Algorith > External Button fixed floor * Display > Elevator Car V Minimum seek *Currfloor (Nearest to user) + Disaction + Display (Enum) Status DOOMS Enum) Internal Button Scanned by Scanner Go

Page No. Date Elevator Bystom Design Algorithm resign/OML Diagramm Enum Direction pisplay int floor; Direction direction; down; Internal Button Interval Button - Does not contain offge displacement obj; (Dumb object) has-a Elevator Cour En Status S Press Button Display obj; (int button) more; int curr floor; idle; Internal Button Dispatcher Direction diri Status etatus Internal buttonobj Door has Door obj; dia move (det floor, Scanned by Scanner Go

Page No. Dince Elevator is a Dumb object 80 we need a Controller of Elevator (holds all algorithm) Elevator Controller Elevator obj; has Elevator som have Accept new_Reg (2) floor g direction multiple sequest Control ele car () * controle the will update the status of elevator Data Structure (move, idle) Jow From Where the Elevator Controller the requests. Internal Button External Button External Button Internal Button V Dispatcher Pispatchel direction direction; List (Elevator Controller) List (Elevator controller) Submit Reg Ciat submit Req (floor, déstiration) odderson Plxed Floor Disparther Dispatcher Ceanned by Canner Go

Paga No. Date External Button press Button (floor, direct) Elevator Contains Elevator obj; External Button Dispatcher

Eict (Elevator Controller) ObjSubmit Rog (floor, dis) submit Reg (they Jext we have oor, building floor floor_id (ist (Hoors) External buttong has-a



Irwy9 tes Algorithm Elevator Controller ospatcher usease Liff use ase 1 But this condition connot be fulfilled in this superior 2092 2093 Develor direction **Scanned by Scanner Go**

Page No. Date Now in this Higgsithm the elevator will scan the sequest in one direction those request and when 9+ reached end then it will change the direction, and fulfil requests in that directions. It we have regard of 4. then lift will come but 9t will go till last even if it does not have any request Look Algorithm when the elevator is moving, it is looking one step ahead whether their is any regular If not then it will change direction and Which data Stoucture to be used to implement Current floor of Lift so it will first serve

Paga No. Date we will use two priority orking for floor so we will lift reaches Unow + pending reg

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