

UNIVERSITY OF GHANA

Department of Computer Engineering SCHOOL OF ENGINEERING SCIENCES COLLEGE OF BASIC AND APPLIED SCIENCES FIRST SEMESTER 2022/2023 ACADEMIC YEAR

COURSE CODE: CPEN 201 C++ PROGRAMMING COURSE

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PROJECT WORK

UML OF ELEVATOR CODE

UML NOTATION FOR CLASSES

ELEVATOR CLASS

```
Elevator
- currentFloor: int
- num floors: int
- curr floor: int
- passenger_floor : vector<int>
- passenger destinations : vector<int>
- is valid floor(floor:int) const: bool
- remove arrived passengers(): void
+ Elevator(capacity: int, num floors: int, curr floor=1: int)
+ board passenger(floor: int, destination: int): bool
+ move to destination(): void
+ announce current floor() const : void
+ get capacity() const : int
+ get_num_floors() const : int
+ get curr floor() const : int
+ get passenger floors() const : vector<int>
+ get passenger destinations() const : vector<int>
+ set capacity(capacity: int): void
+ set num floors(num floors: int): void
```



