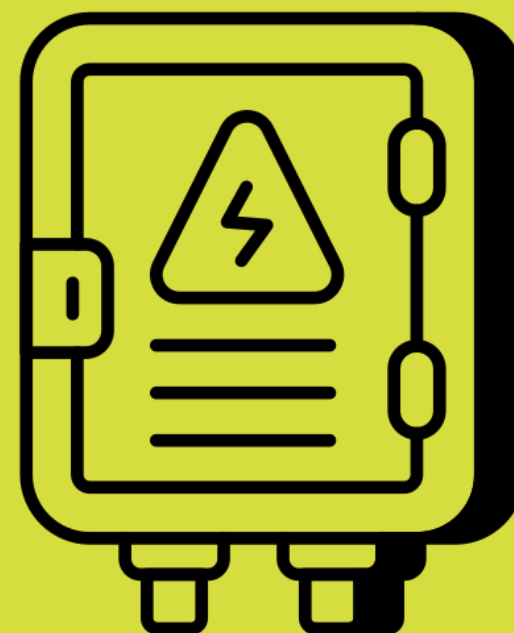


Sridhar Maskeri

Software Engineer

The



Circuit Breaker

Pattern

Swipe for more

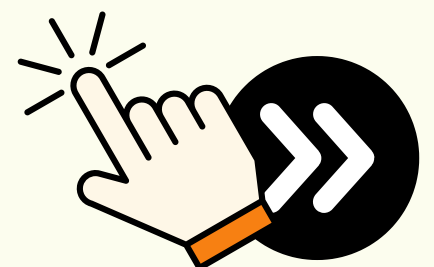


Circuit Breaker Class

Constructor

```
class CircuitBreaker {  
  constructor(action, failLimit = 3, resetTime = 10000) {  
    this.action = action  
    this.failLimit = failLimit  
    this.resetTime = resetTime  
  
    this.failCount = 0  
    this.lastFail = null  
    this.state = 'CLOSED'  
  }  
}
```

Swipe for more



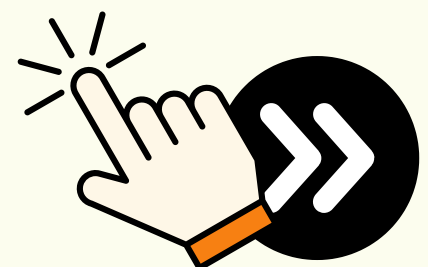
Circuit Breaker Class

call function

```
async call(...args) {
  if (this.state === 'OPEN') {
    if (Date.now() - this.lastFail > this.resetTime) {
      this.state = 'HALF_OPEN'
    } else {
      throw new Error('Circuit is open. Try later.')
    }
  }

  try {
    const result = await this.action(...args)
    this._reset()
    return result
  } catch (err) {
    this._trip()
    throw err
  }
}
```

Swipe for more

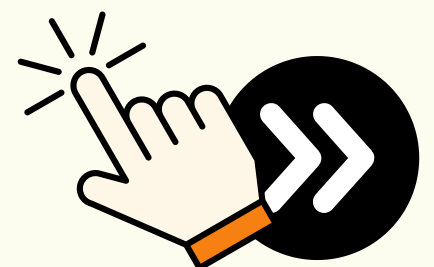


Circuit Breaker Class

reset function

```
_reset() {  
  this.failCount = 0  
  this.state = 'CLOSED'  
}
```

Swipe for more

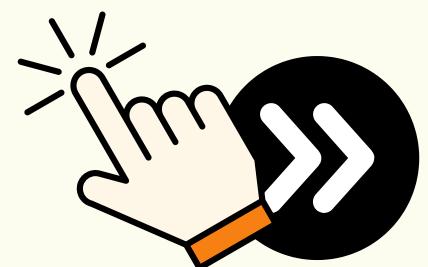


Circuit Breaker Class

trip function

```
_trip() {  
  this.failCount++  
  this.lastFail = Date.now()  
  if (this.failCount ≥ this.failLimit) {  
    this.state = 'OPEN'  
  }  
}
```

Swipe for more



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found this
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