

# Read Me

A Spring Boot application was created for the purpose of the given ATM java exercise, the source code of which is attached along with the email. The DB has one collection and has been hosted on a sandbox environment in the mongoldb Atlas cloud.

The application can be tested using the below three APIs.

## CREATE DENOMINATION

To add a new denomination.

URI: <http://localhost:8080/atm/addDenomination>

Type: POST

Content Type: JSON

*Sample Request:*

```
{
  "denomination" : "100",
  "quantity" : 0
}
```

*Sample Response:*

```
{
  "denomination": 100,
  "quantity": 0
}
```

## DEPOSIT

To deposit money into the ATM

URI: <http://localhost:8080/atm/deposit>

Type: POST

Content Type: JSON

*Sample Request:*

```
{
  "1" : 0,
  "5" : 20,
```

```
"10" : 8,  
"20" : 0  
}
```

*Sample Response:*

```
{  
  "totalBalance": 180,  
  "balanceDenom": {  
    "1": {  
      "denomination": 1,  
      "quantity": 0  
    },  
    "5": {  
      "denomination": 5,  
      "quantity": 20  
    },  
    "10": {  
      "denomination": 10,  
      "quantity": 8  
    },  
    "20": {  
      "denomination": 20,  
      "quantity": 0  
    }  
  }  
}
```

## WITHDRAW

To withdraw money from the ATM.

URI: <http://localhost:8080/atm/withdraw>

Type: POST

Content Type: JSON

*Sample Request:*

```
{  
  "intCashRequest" : 175  
}
```

*Sample Response:*

```
{
  "totalBalance": 5,
  "dispense": {
    "5": {
      "denomination": 5,
      "quantity": 19
    },
    "10": {
      "denomination": 10,
      "quantity": 8
    },
    "20": {
      "denomination": 20,
      "quantity": 0
    }
  },
  "balanceDenom": {
    "1": {
      "denomination": 1,
      "quantity": 0
    },
    "5": {
      "denomination": 5,
      "quantity": 1
    },
    "10": {
      "denomination": 10,
      "quantity": 0
    },
    "20": {
      "denomination": 20,
      "quantity": 0
    }
  }
}
```