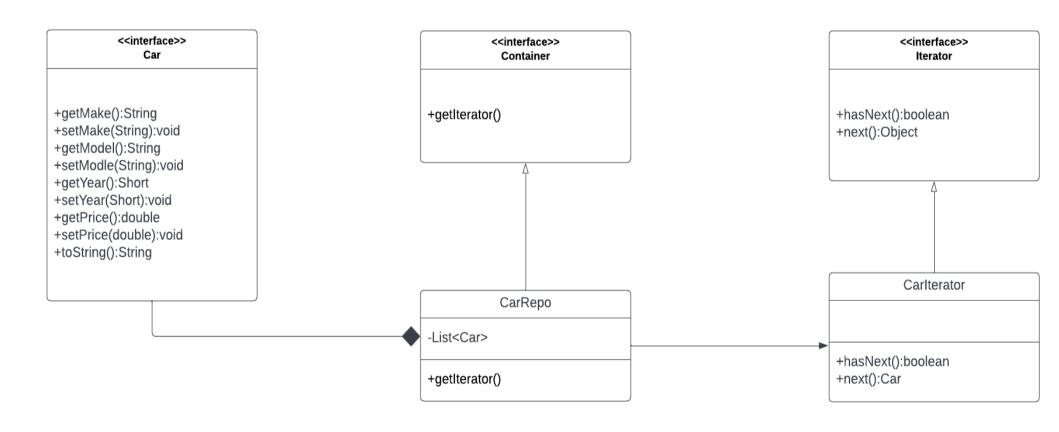
Used Car Dealership Iterator Pattern

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Iterator Pattern UML Diargram



Iterator Pattern Features

- No matter what kind of car it is, as long that it is a car, it will be output from the next() method.
- In this example it is using any class that implements the List interface.



All the is relavent to the user

- Only 3 parts are relavent to the user.
- 1: getIterator() to make an instance.
- 2: hasNext() to check for the end of the list.
- 3: next() to output the current car be ready for the next car.

```
@Override
public Iterator getIerator()
    return new CarIterator();
private class CarIterator implements Iterator
    int index;
    @Override
    public boolean hasNext()
        if(index < Cars.size())</pre>
            return true:
        return false;
    @Override
    public Car next()
        if(this.hasNext()){
            return Cars.get(index++);
        return null;
```

Component Testing

Make 2 different instances of the Iterator. Use them separately for different purposes without one interfering with the other. Iterator 1 will filter Cars from "Make": "Beta" and return them. Iterator 2 will return Cars in ascending order of year. Neither will know of the other nor have an effect on the others output.

