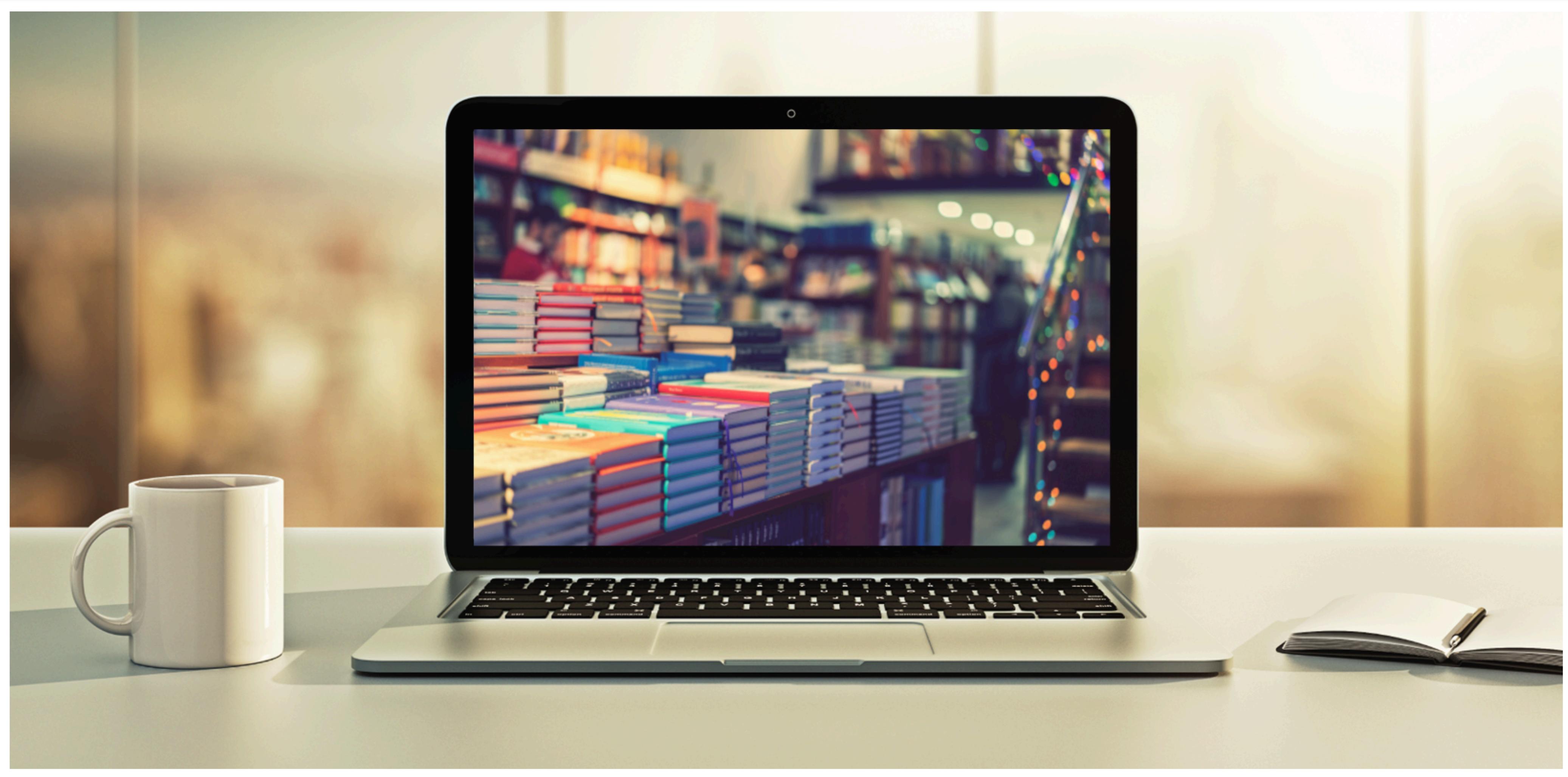


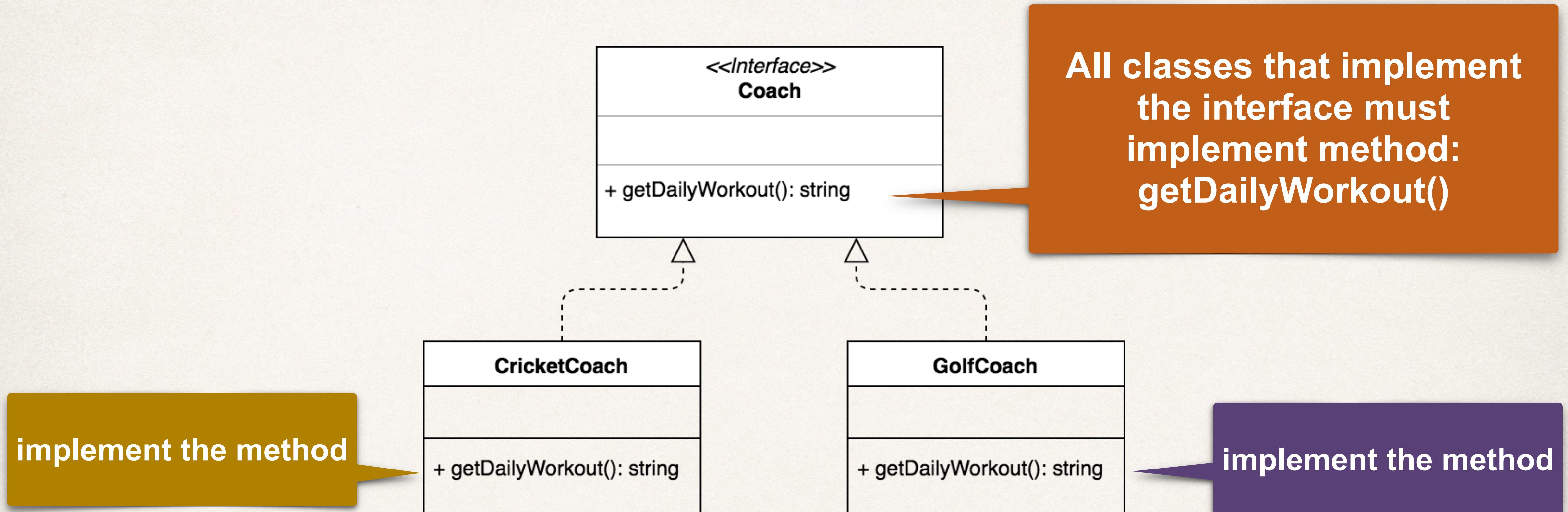
# Interfaces



# Interfaces

- TypeScript supports interfaces
  - Define an interface with a method contract
  - Classes implement the interface accordingly
  - A class can implement multiple interfaces
- TypeScript can also use interfaces to support contracts with properties
  - For examples with properties, see:
  - <http://www.typescriptlang.org/docs/handbook/interfaces.html>

# Interface Example



# Interface Example

Define  
the interface

File: Coach.ts

```
export interface Coach {  
  
    getDailyWorkout(): string;  
}
```

Implement  
the interface

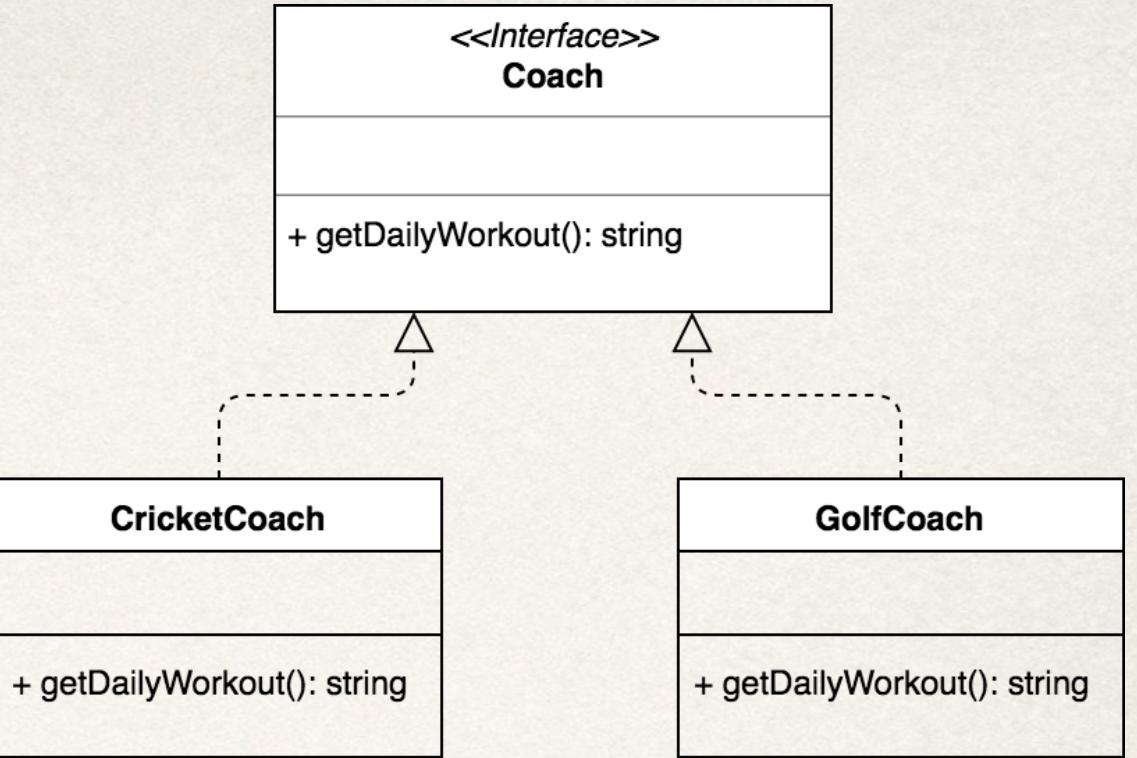
File: CricketCoach.ts

```
import { Coach } from "./Coach";  
  
export class CricketCoach implements Coach {  
  
    getDailyWorkout(): string {  
        return "Practice your spin bowling technique.";  
    }  
}
```

File: GolfCoach.ts

```
import { Coach } from "./Coach";  
  
export class GolfCoach implements Coach {  
  
    getDailyWorkout(): string {  
        return "Hit 100 balls at the golf range.";  
    }  
}
```

Implement  
the interface



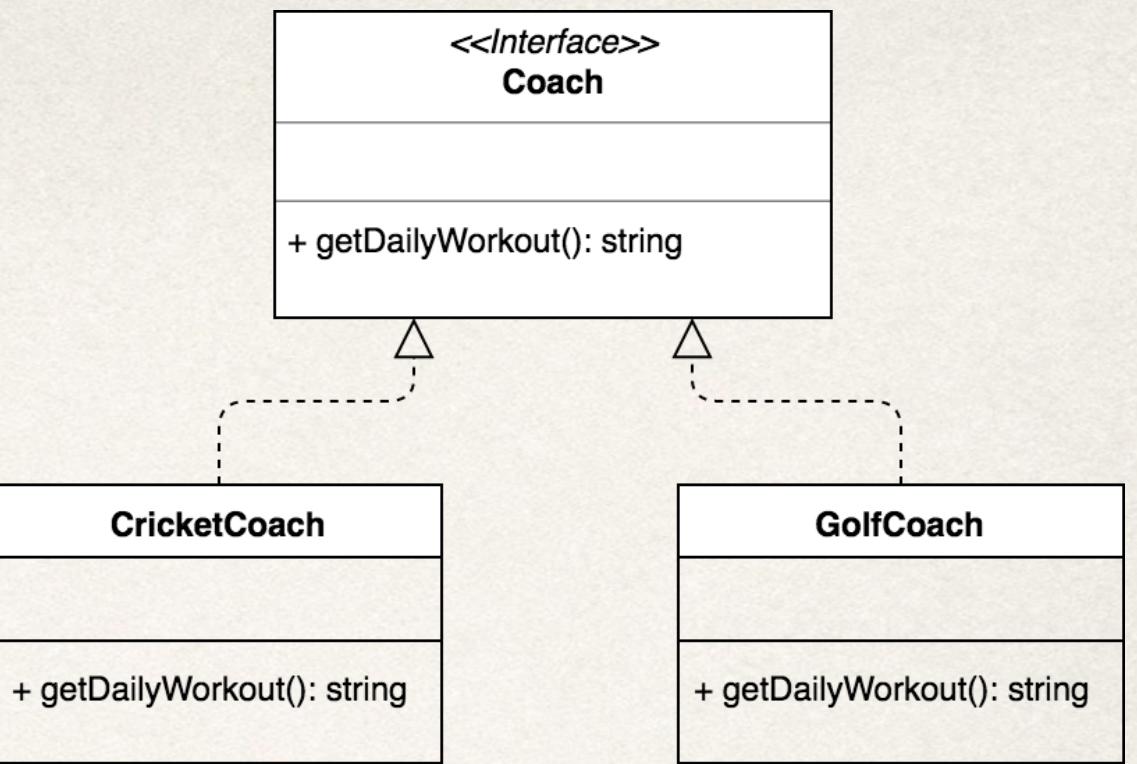
# Creating a Main App

File: Driver.ts

```
import { Coach } from "./Coach";
import { CricketCoach } from "./CricketCoach";
import { GolfCoach } from "./GolfCoach";

let myCricketCoach = new CricketCoach();
console.log(myCricketCoach.getDailyWorkout());

let myGolfCoach = new GolfCoach();
console.log(myGolfCoach.getDailyWorkout());
```

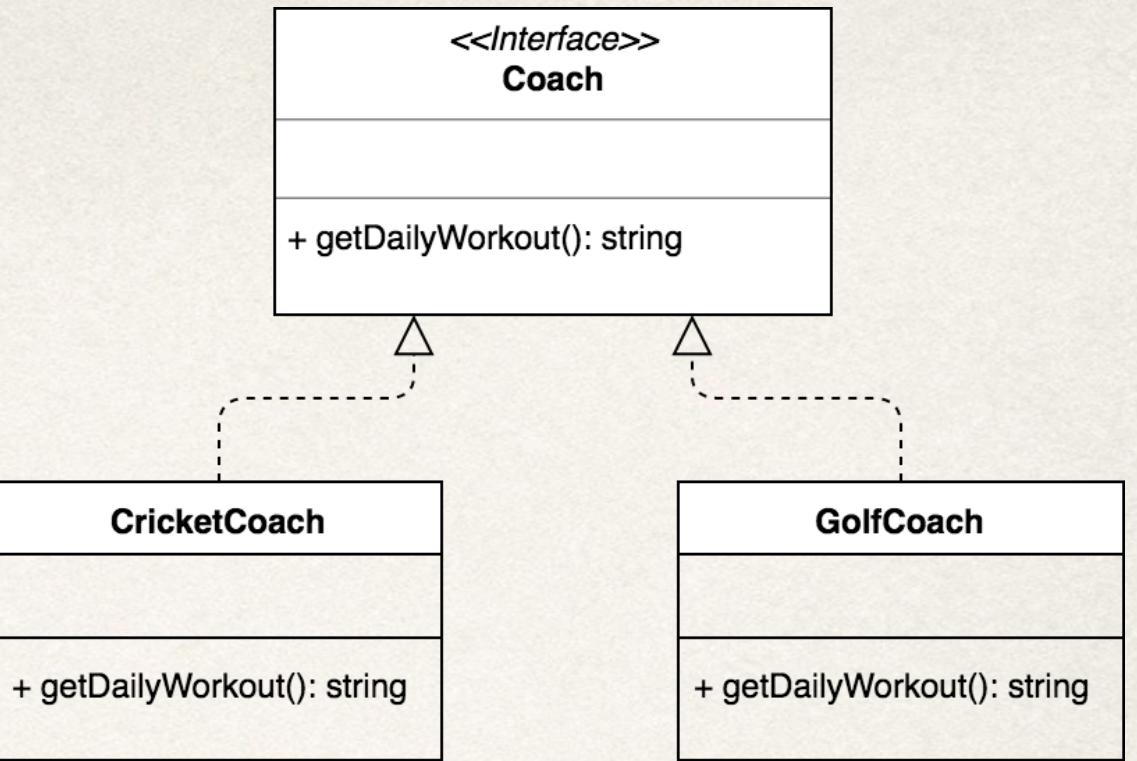


Practice your spin bowling technique.  
Hit 100 balls at the golf range.

# Creating an Array of Coaches

File: ArrayDriver.ts

```
...  
  
let myCricketCoach = new CricketCoach();  
let myGolfCoach = new GolfCoach();  
  
// declare an array for coaches ... initially empty  
let theCoaches: Coach[] = [];  
  
// add the coaches to the array  
theCoaches.push(myCricketCoach);  
theCoaches.push(myGolfCoach);  
  
for (let tempCoach of theCoaches) {  
    console.log(tempCoach.getDailyWorkout());  
}
```



Practice your spin bowling technique.  
Hit 100 balls at the golf range.