Test Driven Development in the Real World

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Failing test

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Just enough code to pass

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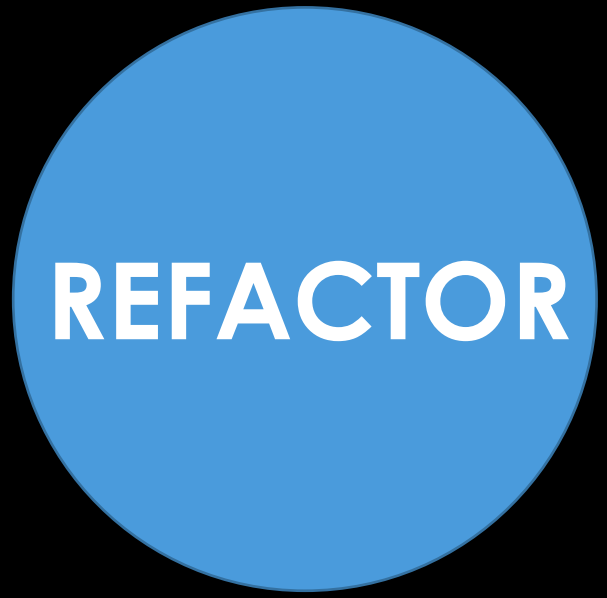
Clean and reorganize



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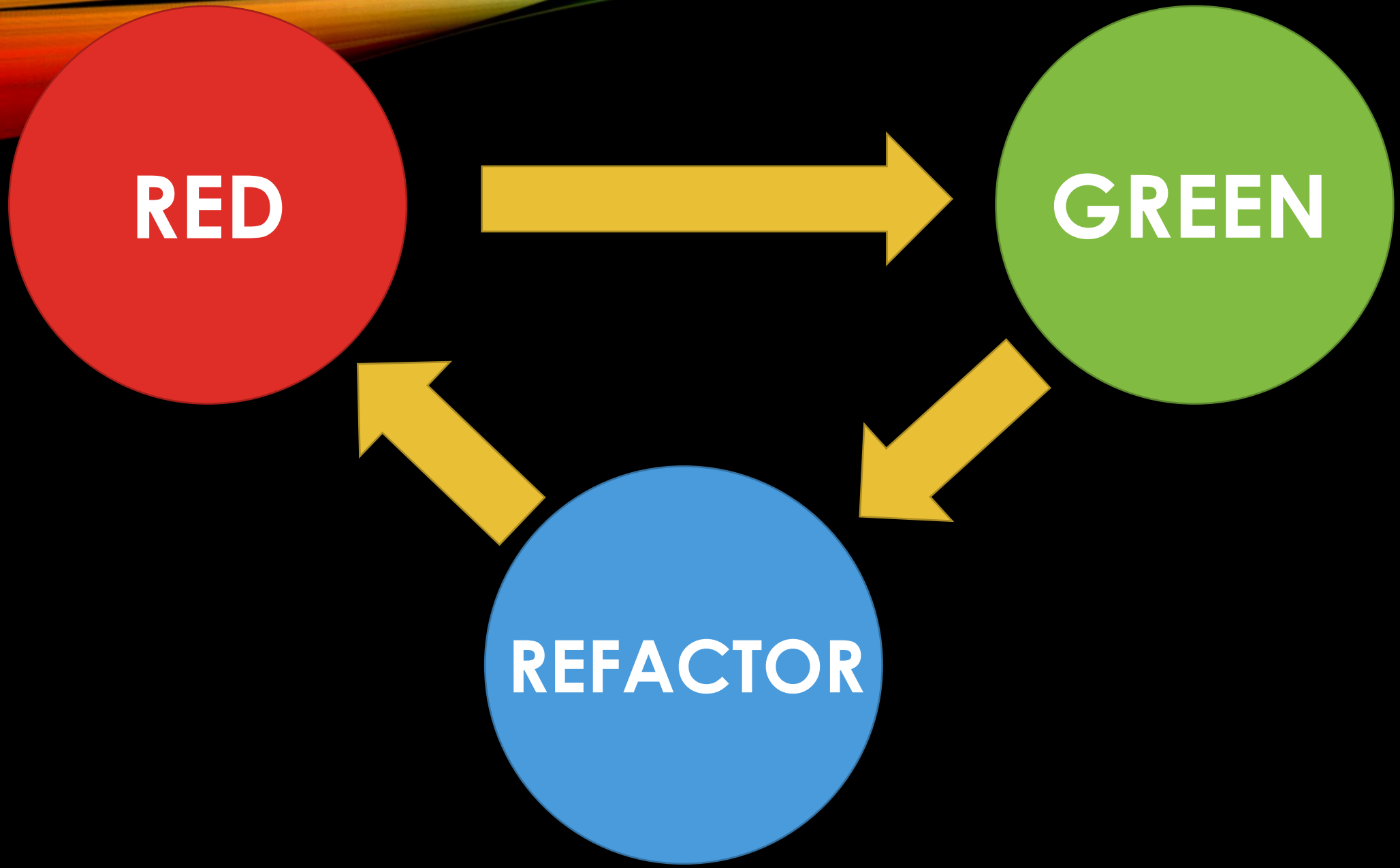

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Sunset Service

Valid Results


```
{
    "results": {
        "sunrise": "4:52:36 AM",
        "sunset": "3:53:04 PM",
        "solar_noon": "10:22:50 AM",
        "day_length": "11:00:28.2563158"
    },
    "status": "OK"
}
```


Error


```
{
    "results": null,
    "status": "ERROR"
}
```


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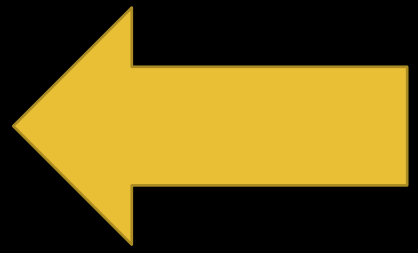
Our Code



```
{
    "results": {
        "sunrise": "4:52:36 AM",
        "sunset": "3:53:04 PM",
        "solar_noon": "10:22:50 AM",
        "day_length": "11:00:28.2563158"
    },
    "status": "OK"
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```

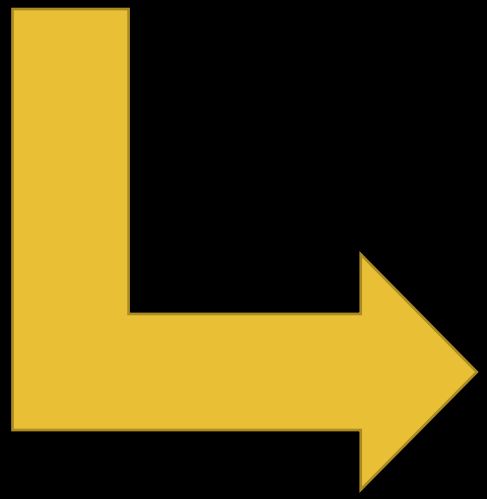

```
public interface ISunsetProvider
{
    Task<DateTimeOffset> GetSunset(DateOnly date);
    Task<DateTimeOffset> GetSunrise(DateOnly date);
}
```

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Steps to Getting Today's Sunset Time

- Call the service
- Parse JSON for "sunset"
- Convert to local date/time


```
{
    "results": {
        "sunrise": "4:52:36 AM",
        "sunset": "3:53:04 PM",
        "solar_noon": "10:22:50 AM",
        "day_length": "11:00:28.2563158"
    },
    "status": "OK"
}
```


"3:53:04 PM" => 2022-10-20T15:53:04

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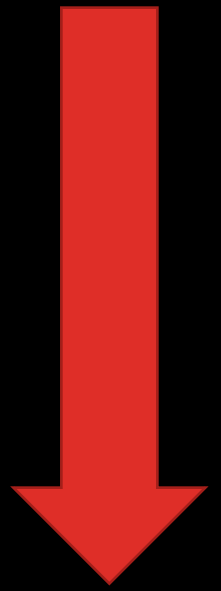

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Steps to Getting Today's Sunset Time

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Thank You!

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