

Writing Basic SpecFlow Tests



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Overview



Initial demo sample production code

Create the first scenario

Implement the test automation code

Running and debugging test scenarios

Adding additional scenarios

Add some deliberate duplication

Reviewing maintainability



Demo



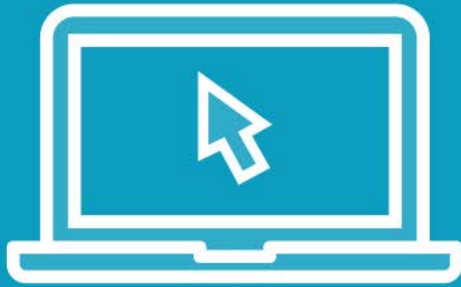
Demo Sample
Production Code

Show demo class

Add ref from test project



Demo



Creating the First Scenario

Write first scenario

Generate step definition file

Modify to remove parameters

Build

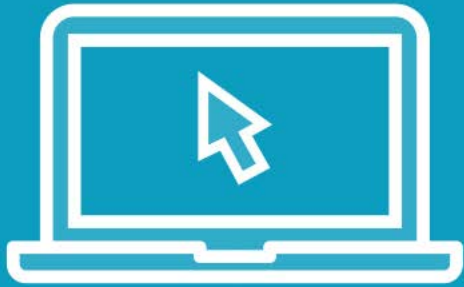
Automation code not yet written

`ScenarioContext.Current.Pending();`

Rename `GivenIMANewPlayer` to
`GivenImANewPlayer`



Demo



Writing Test
Automation Code

Implement Given, When, Then steps

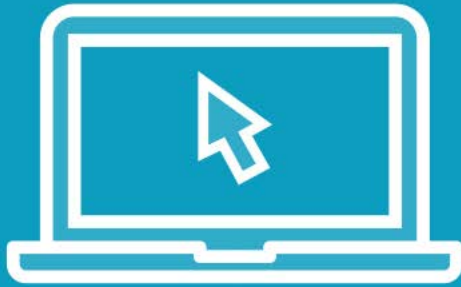
```
private PlayerCharacter _player;
```

```
_player.Hit(0);
```

```
Assert.Equal(100, _player.Health);
```



Demo



Running and
Debugging Test
Scenarios

Run test with Test Explorer

Adding breakpoint in When step

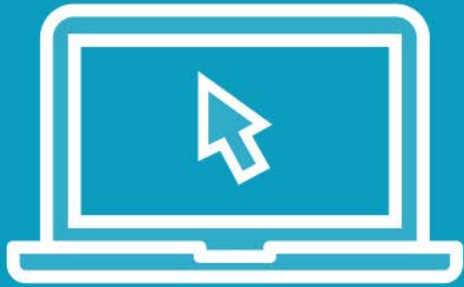
Debugging from Test Explorer

Using breakpoints in scenarios

Step into code from scenario text



Demo



Adding Additional
Scenarios

Add new scenarios

Starting health is reduced when hit

Taking too much damage results in player death

Copy steps to clipboard

Remove parameters

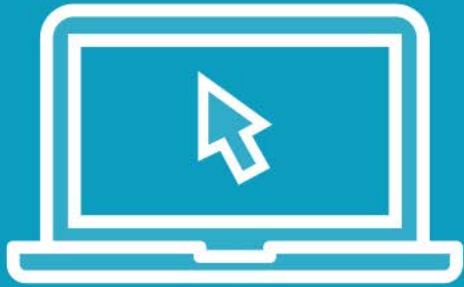
Hand write step definitions

Add test automation code

Run new tests



Demo



Reviewing Maintainability

Duplication in scenarios

Scenario steps differ only by data

Duplication in test automation code

Parameterized steps in next module



Summary



Saw initial PlayerCharacter class

“Taking no damage when hit doesn’t affect health”

```
private PlayerCharacter _player;
```

Running and debugging test scenarios

Added two additional scenarios

Auto generation and manual creation

Reviewed maintainability

Duplicated scenario text

Duplicated automation code



Next:

Increasing Maintainability with
Shared Steps, Parameters,
and Data Tables

