Metoda koja se testira:

```
public List<SelectListItem> GetFullNames(List<StudentCourse> owo)
{
    List<SelectListItem> Students = new List<SelectListItem>();
    foreach (StudentCourse item in owo)
    {
        if (item.Student != null)
        {
            Students.Add(new SelectListItem() { Text = $"{item.Student.FirstName} { item.Student.LastName}", Value = item.ID.ToString() });
    }
    return Students;
}
```

Line i branch coverage:

Jedan test pokriva oboje

```
[TestMethod]

① Idelerance | Please sign-in to New Railc CodeStream to see Code Level Metrics public asypt. Task | Test!()

{
// Arrange
var student = new Student { Id = 1, FirstName = "Jane", LastName = "Doe", UserName = "janeDoe", Email = "jane@example.com", Index = 12345, Department = "RI", Year = 3 }; var studentCourse = new List<StudentCourse = new List<StudentID = 1, StudentID = 1, Student = student, Points = 75, Grade = 8 }, new StudentCourse { ID = 99, CourseID = 1, StudentID = 1, Student = student, Points = 75, Grade = 8 }, new StudentCourse { ID = 99, CourseID = 1, StudentID = 1, Student = student, Points = 75, Grade = 8 },

var controller = new StudentExamController(_mockContext.Object, _mockUserManager.Object);

//Acct
var results = controller.GetFullNames(studentCourse);

//Assert
Assert.AreEqual(3, results.Count);
}
```

## Conditional coverage:

```
[TestMethod]

① [Oretermore] Please agains to New Reix CodeStream to see Code Level Metrics pubblic async Task Test1()

{
    // Arrange
    var student = new Student { Id = 1, FirstName = "Jane", LastName = "Doe", UserName = "janeDoe", Email = "jane@example.com", Index = 12345, Department = "RI", Year = 3 };
    var studentCourse = new List*StudentCourse>
    new StudentCourse { ID = 99, CourseID = 1, StudentID = 1, Student = student, Points = 75, Grade = 8 },
    new StudentCourse { ID = 99, CourseID = 1, StudentID = 1, Student = student, Points = 75, Grade = 8 },
    new StudentCourse { ID = 99, CourseID = 1, StudentID = 1, Student = student, Points = 75, Grade = 8 },
    var controller = new StudentExamController(_mockContext.Object, _mockUserManager.Object);

//Act
var results = controller.GetFullNames(studentCourse);

//Acsert
Assert.AreEqual(3, results.Count);
```

## Loop coverage:

Kada je lista prazna:

```
[TestNethod]
① | Orderences | Please sign-in to New Relic CodeStream to see Code Level Metrics public async Task Test3()
{
//Arrange
var student = new Student { Id = 1, FirstName = "Jane", LastName = "Doe", UserName = "janeDoe", Email = "jane@example.com", Index = 12345, Department = "RI", Year = 3 };
var studentCourse = new List<StudentCourse>{};

var controller = new StudentExamController(_mockContext.Object, _mockUserNanager.Object);

//Act
var results = controller.GetFullNames(studentCourse);

//Assert
Assert.AreEqual(0, results.Count);
}
```

Kada lista sadrži više različitih elemenata:

Kada lista sadrži više istih elemenata:

```
[TestMethod]

① (orderence) | Please sign-in to New Relic CodeStream to see Code Level Methos public async Task Test1()

{
    // Arrange
    var student = new Student { Id = 1, FirstName = "Jane", LastName = "Doe", UserName = "janeDoe", Email = "jane@example.com", Index = 12345, Department = "RI", Year = 3 };
    var studentCourse = new ListStudentCourse>
    new StudentCourse { ID = 99, CourseID = 1, StudentID = 1, Student = student, Points = 75, Grade = 8 },
    new StudentCourse { ID = 99, CourseID = 1, StudentID = 1, Student = student, Points = 75, Grade = 8 },
    new StudentCourse { ID = 99, CourseID = 1, StudentID = 1, Student = student, Points = 75, Grade = 8 },
    var controller = new StudentExamController(_mockContext.Object, _mockUserManager.Object);

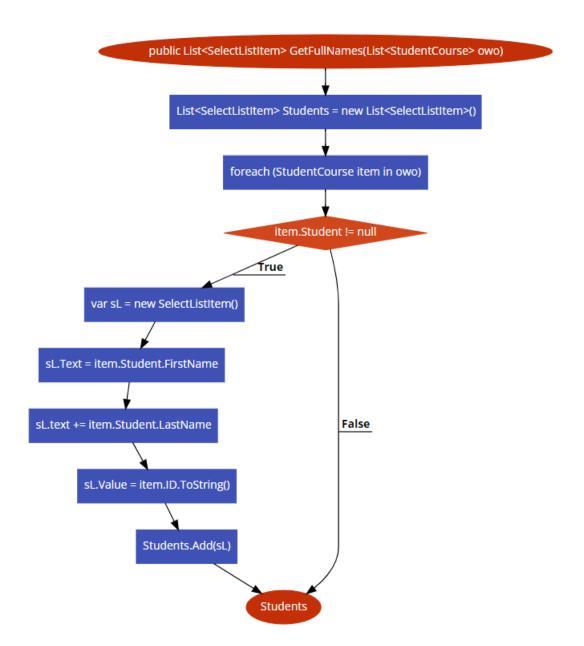
//Act
    var results = controller.GetFullNames(studentCourse);

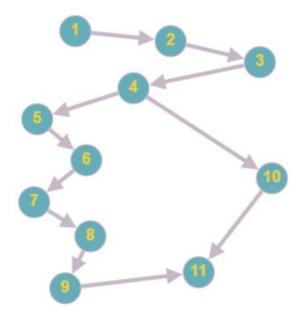
//Assert
Assert.AreEqual(3, results.Count);
```

Kada lista sadrži jedan element:

## Ukoliko je jedan Student null:

## Path coverage:





Obzirom da se metoda završava u čvoru 11, imamo dva moguća puta, što znači da su potrebna najmanje dva testa kako bi se postigla potpuna obuhvatnost puteva.

Put 1	1⇒2⇒3⇒4⇒10⇒11
Put 2	1⇒2⇒3⇒4⇒5⇒6⇒7⇒8⇒9⇒11

```
[TestMethod]
② | O references | Please sign-in to New Relic CodeStream to see Code Level Metrics
public async Task TestPuti()
{
    // Arrange

    var studentCourse = new List<StudentCourse> {
        new StudentCourse { ID = 99, CourseID = 1, StudentID = 1, Student = null, Points = 75, Grade = 8 },
    };

    var controller = new StudentExamController(_mockContext.Object, _mockUserManager.Object);

    //Act
    var results = controller.GetFullNames(studentCourse);

    //Assert
    Assert.AreEqual(0, results.Count);
}
```

```
[TestMethod]
① | Orderences | Plase sign-in to New Relic CodeStream to see Code Level Metrics public async Task TestPut2()
{
    // Arrange
    var student = new Student { Id = 1, FirstName = "Jane", LastName = "Doe", UserName = "janeDoe", Email = "jane@example.com", Index = 12345, Department = "RI", Year = 3 };
    var studentCourse = new List<StudentCourses { ID = 99, CourseID = 1, StudentID = 1,Student = student, Points = 75, Grade = 8 },
    };
    var controller = new StudentExamController(_mockContext.Object, _mockUserNanager.Object);

    //Act
    var results = controller.GetFullNames(studentCourse);

    //Assert
    Assert.AreEqual(1, results.Count);
```