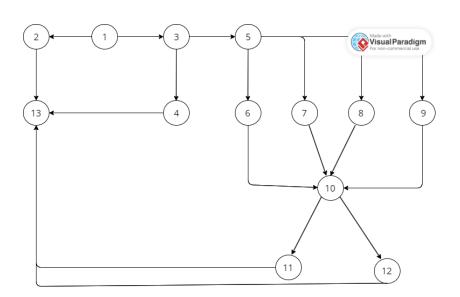
```
// If the legged-in nutritionist is not found, return a "Not Found" response
if (loggedInNutritionist == null)
    return NotFound();

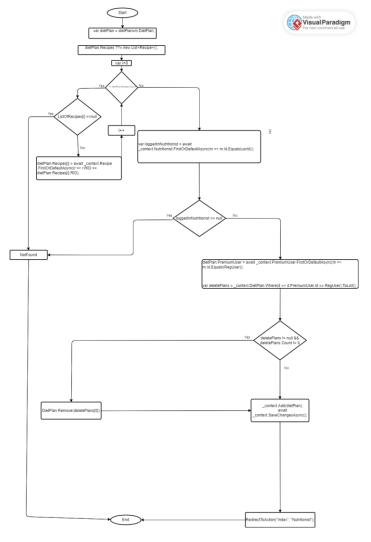
// Associate the diet plan with the specified premium user
    dietPlan.PremiumUser = await_context.PremiumUser.FirstOrDefaultAsync(m => m.Id.Equals(RegUser));

// Retrieve existing diet plans for the premium user and delete them
    var deletePlans = _context.DietPlan.Where(d => d.PremiumUser.Id == RegUser).ToList();
    if (deletePlans != null && deletePlans.Count != 0)
{
        context.DietPlan.Remove(deletePlans.Count != 0);
        [context.SaveChanges();
}

// Add the new diet plan to the context
        context.Add(dietPlan);
        await _context.SaveChangesAsync();

// Associate each recipe with the diet plan by adding entries to the DietPlanRecipe table
        foreach (var recipe in ListOfRecipes)
{
            var sql = $"INSERT INTO DietPlanRecipe (RecipesRID, DietPlansDPID) VALUES ('{recipe.RID}', '{dietPlan.DPID}');";
            }// Redirect to the Index action of the Nutritionist controller upon successful creation
            return RedirectToAction("Index", "Nutritionist");
}
```





U ovom slučaju smo imali 10 mogućih putanja koje pokrivaju DietPlan Controller. Ti putevi su:

1 -> 2 -> 13

1 -> 3 -> 4 -> 13

1 -> 3 -> 5 -> 6 -> 10 -> 11 -> 13

1 -> 3 -> 5 -> 6 -> 10 -> 12 -> 13

1 -> 3 -> 5 -> 7 -> 10 -> 11 -> 13

1 -> 3 -> 5 -> 7 -> 10 -> 12 -> 13

1 -> 3 -> 5 -> 8 -> 10 -> 11 -> 13

1 -> 3 -> 5 -> 8 -> 10 -> 12 -> 13

1 -> 3 -> 5 -> 9 -> 10 -> 11 -> 13

1 -> 3 -> 5 -> 9 -> 10 -> 12 -> 13

Kako bih postigla pokrivenost sa najkraćim putem napisala sam sljedeće testne slučajeve:

Prvenstveno sam testirala slučaj kada se pokuša kreirati novi DietPlan, ali zbog Recipe koji je null, dolazi do vraćanja NotFound. Ime tog testa je CreateAction_RecipeIsNull_ReturnsNotFound()

Sljedeći testni slučaj koji sam pokrila jeste kada Nutritionist nije pronađen, čime sam pokrila uslov kada je Nutritionist null. Test se zove Create_WhenNutritionistNotLoggedIn_ReturnsNotFound()

```
| TestHethod|
|
```

Sljedeći uslov koji je trebalo ispitati sve slučajeve, te tako postići pokrivenost koda je u slučaju brisanja DietPlan-ova. To sam pokrila sljedećim slučajevima. Testovi koji to pokrivaju su:

CreateAction_WhenDeletePlansIsNotNullButHasNoPlans_DoesNotRemoveAnyDietPlan()

CreateAction_WhenDeletePlansIsNullButHasPlans_DoesNotRemoveAnyDietPlan()

CreateAction_WithExistingDietPlans_DeletesOldDietPlans()

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```

Pored POST metode za Create, testirala sam i samu Create metodu. Za ovu metodu sam pokrila neke moguće slučajeve, ali s obzirom na to da nije previše kompleksna metoda nije napisano ni previše testova.

```
Oloreferences|Please sign-in to New Relic CodeStream to see Code Level Metrics
public void CreateAction_AuthorizedNutritionist_ReturnsCorrectViewModel()
{

// Aranžman (Arrange)

// Kreiramo mock context.Recipe
var mockRecipes = new List<Recipe>

{
    new Recipe { RID = 1, NameOfRecipe = "Recipe 1" },
    new Recipe { RID = 2, NameOfRecipe = "Recipe 2" },
    // Dodajte dodatne recepte prema potrebi
}.AsQueryable();
_mockDbContext.Setup(c => c.Recipe).Returns((DbSet<Recipe>)MockDbSet(mockRecipes));

// Akcija (Act)
var result = _controller.Create("TestUser") as ViewResult;

// Assert

// Proveravamo da li akcija vraća ViewResult
Assert.IsNotMull(result);
Assert.IsInstanceOfType(result, typeof(ViewResult));

// Proveravamo da li akcija koristi ispravan View
Assert.AreEqual("dietPlan", result?.ViewName);

// Proveravamo da li ViewModel ima pravilno postavljene vrijednosti
var model = result.Model as EditDietPlanVM;
Assert.IsNotMull(model.);
Assert.IsNotMull(model.DietPlan);
Assert.IsNotMull(model.DietPlan);
Assert.IsNotMull(model.DietPlan);
Assert.IsNotMull(model.DietPlan);
Assert.IsNotMull(model.Pierpus);
Assert.AreEqual("TestUser", model.DietPlan.PremiumUser.Id);
CollectionAssert.AreEqual(mockRecipes.ToList(), model.Recipes.ToList());
```