Revision

- ViewData["Title"]
 - a. Create ViewData["Title"] in the view
 - b. View is processed by asp.net
 - c. View is merged with Layout.
 - d. At this time since layout has <title>@ViewData["title"] xyz </title>
 - e. The title contents is replaced by the actual title specified in the View
- 2. Types of Persistent Stored in Asp.Net Core
 - a. Application
 - i. Is stored in server memory
 - ii. Data is scoped to entire application, i.e accessible to all users Application["Count"]++;
 - iii. This Count key is accessible from any user
 - b. Session
 - i. Is stored in server memory
 - ii. Data is scoped to each user/session i.e. for one browser session with the server (multiple http transactions)Session["Count"] ++;
 - c. ViewData
 - i. Is stored inside each page in hidden input variables
 - ii. Data is scoped only to current page instance. As long as you postback to same page or controller/action, the ViewData will be alive. If you navigate to different page, ViewData data is destroyed.
 - d. TempData
 - i. Is stored same as session
 - ii. Data is scoped only from current Http Request till subsequent HttpRequest / till data is read
- 3. Steps to use IOptions service in Asp.NET Core
 - a. Add the desired ConnectionStrings and other settings in appsettings.json

```
9
      "AllowedHosts": "*",
      "ConnectionStrings": {
10
        "DefaultConnectionString": "Data Source=.;Initial Catalog=WorldLineDatabase;User ID=w
        "MyOtherConnectionString": "Data Source=172.54.11.2; Initial Catalog=WorldLineDatabase
12
13
14
      "ShaktimanMartSettings":
15 🖹 {
         "MinProductPrice": 1.
16
         "MaxProductPrice": 5000
17
18
      3
19 }
```

b. For each top level entry in appsettings.json, create a class

```
public class ConnectionStrings
                    public string DefaultConnectionString { get; set; }
                    public string MyOtherConnectionString { get; set; }
               }
               public class ShaktimanMartSettings
                    public int MinProductPrice { get; set; }
                    public int MaxProductPrice { get; set; }
       c. In StartUp.cs, ConfigureServices method do the following
           services.Configure<ConnectionStrings>(
                  Configuration.GetSection("ConnectionStrings"));
           services.Configure<ShaktimanMartSettings>(
                   Configuration.GetSection("ShaktimanMartSettings"));
       a. Now in any Service class or Controller class, let DI container send you the required
           settings as below
           public HomeController(
                      ILogger<HomeController> logger,
                      IOptions<ConnectionStrings> connectionStringsAccessor,
                      IOptions<ShaktimanMartSettings> shaktimanMartSettingsAccessor
           {
           }
4. Entity Framework
       a. Install Nuget packages
              a. Microsoft.EntityFrameworkCore (ver 5)
              b. Microsoft.EntityFrameworkCore.SqlServer (ver 5)
              c. Or only Oracle.EntityFrameworkCore for Oracle Database (ver 5)
       b. Create a folder called [Data] and inside this create a class called
           ApplicationDbContext with constructor as shown
           public class ApplicationDbContext : DbContext
                  public ApplicationDbContext(
                         DbContextOptions<ApplicationDbContext> options) : base(options)
                   {
                  }
                  public DbSet<Student> Students { get; set; }
       c. In Startup.cs
           services.AddDbContext<ApplicationDbContext>(options =>
           options.UseSqlServer(Configuration.GetConnectionString("DefaultConnectionString"
           )));
           Or
           services.AddDbContext<ApplicationDbContext>(opt
                                                               ions =>
           options.UseOracle(Configuration.GetConnectionString("DefaultConnectionString"
```

))):

- d. Your EF Core is ready to use as follows
 - a. Inject the ApplicationDbContext in any controller or service class
 - b. See some examples below
 - c. var students = await
 _applicationDbContext.Students.ToListAsync();
 - d. await _applicationDbContext.Students.AddAsync(student);
 await _applicationDbContext.SaveChangesAsync();
 - e. var studentFromDb = await
 _applicationDbContext.FindAsync<Student>(rollNo);
 - f. _applicationDbContext.Update(student);
 await _applicationDbContext.SaveChangesAsync();
 - g. var studentFromDb = await
 _applicationDbContext.FindAsync<Student>(rollNo);
 _applicationDbContext.Students.Remove(studentFromDb);
 await _applicationDbContext.SaveChangesAsync();