

Data Seeding

Data seeding means adding first data into a database. It helps developers and testers work with real data.

Main points

- Adds default or test data
- Make apps ready to run
- Helps with testing
- Done during setup or migrations
- Supported by frameworks like Entity Framework

Example

In Entity Framework Core:

```
protected override void OnModelCreating(ModelBuilder modelBuilder)
{
    modelBuilder.Entity<Product>().HasData(
        new Product { Id = 1, Name = "Laptop", Price = 1500 },
        new Product { Id = 2, Name = "Smartphone", Price = 800 }
    );
}
```

Benefits

- Saves time
- Make sure data is ready
- Helps with testing

Problems

- Need updates if database changes
- Can cause conflicts if not managed well