```
1.
    Create the model
public class Customer
{
  public int Id { get; set; }
  public string Name { get; set; }
  public string Email { get; set; }
  public string PhoneNumber { get; set; }
}
2.
   Migrate to create table
  dotnet ef migrations add InitialCreate
  dotnet ef database update
3.
  Ensure DI
 public void ConfigureServices(IServiceCollection services)
{
  services.AddDbContext<ApplicationDbContext>(options =>
     options. Use Sql Server (Configuration. Get Connection String ("Default Connection")); \\
  services.AddScoped<ICustomerRepository, CustomerRepository>();
}
```

```
4.
   Repository pattern that does the CRUD operation
    public interface ICustomerRepository
{
  IEnumerable<Customer> GetAll();
  Customer GetById(int id);
  void Add(Customer customer);
  void Update(Customer customer);
  void Delete(int id);
}
public class CustomerRepository : ICustomerRepository
  private readonly ApplicationDbContext _context;
  public CustomerRepository(ApplicationDbContext context)
    _context = context;
  }
  public IEnumerable<Customer> GetAll()
    return _context.Customers.ToList();
  }
  public Customer GetById(int id)
  {
    return _context.Customers.FirstOrDefault(c => c.Id == id);
  }
```

```
public void Add(Customer customer)
  {
    _context.Customers.Add(customer);
    _context.SaveChanges();
  }
  public void Update(Customer customer)
    _context.Customers.Update(customer);
    _context.SaveChanges();
  }
  public void Delete(int id)
    var customer = _context.Customers.Find(id);
    if (customer != null)
      _context.Customers.Remove(customer);
      _context.SaveChanges();
    }
  }
}
```

```
5.
View for Add and displaying Customers
public class CustomerController: Controller
{
  private readonly ICustomerRepository _customerRepository;
  public CustomerController(ICustomerRepository customerRepository)
  {
    _customerRepository = customerRepository;
  }
  public IActionResult Index()
  {
    var customers = _customerRepository.GetAll();
    return View(customers);
  }
  public IActionResult Add()
  {
    return View();
  }
  [HttpPost]
  public IActionResult Add(Customer customer)
  {
    if (ModelState.IsValid)
    {
      _customerRepository.Add(customer);
      return RedirectToAction("Index");
    }
```

```
return View(customer);
}
```