**1.What is strongly typed view and give an example?**

The view that is designed by targetting specific model class object,then that view is called Strongly typed view.

**2.What is Entity Framework?**

When we don't have any database ready we go with code first approach and using languages like c sharp we create them.

**3.Different Approaches in EF?**

There are three different approaches

> Database first approach

>Model first approach

>Code first approach

**4.When can we go with DB First Approach?**

We go to database first approach when we have the database and table and we just have to perform pull or crud operations on it .

**5.When can we go with Code First Approach?**

When we don't have any database ready we go with code first approach and using languages like c sharp we create them.

**6.Write a steps to do the Db First Approach?**

>create a new project with mvc template

>create a database and create a table in the database and insert data into it.

>open the database diagrams to know the relationship between tables.

>to communicate with the entity framework:

>right click on models

>Add

>New item

>select Data in the left panel

>select ADO.net Data model

>Name

>Add

>Ef designer from database

>Next

>New Connection

>change data source

>enter the server through which we have connected to and created database

>enter the database

>click test connection>ok

>next

>select the tables and click finish

**7.Write a steps to do the Code First Approach?**

>Create new project with Mvc template

>right click on models

>add>class

>Name>Add

>declare properties in the class

>define Key (here it is like primary key) and it comes under System.ComponentModels.DataAnnotations

>right click on models and add dbcontext class which acts as a relationship between databases

>to inherit the dbcontext class we have to install the package Microsoft entity framework

>to install it

>go to tools>click on nuget package manager and click package manager solution

>under browse search for entity framework > select the first one >select for which project we are going to install in the right side panel>install

>use the namespace for the dbcontext

>to provide connection string information(to constructor we will the information)

>open webconfig file and under the configuration we provide the name which is the same information we have given in context class ,datasource (server name)+database name+integrated security +provider name .

>

**8.Which class is used to connect with the database?**

dbcontextclass

**9.Where can we write the connectionString?**

In the webconfig file under configuration.

10.Write the connectionstring and explain about all properties in Connection string.

<connectionstring>

<add name=”Connection”connectionstring=”datasource=10.3.117.37;database=HexCFA;Integrated security=true;”

provider name=”System.sql.SqlClient”/>

</connectionstring>

Name:- specifies the name of the named connection string

Datasource:-connection to database like the location of database

Integrated security:-for authentication -When true, the current Windows account credentials are used for authentication.

Provider name:-data provider that provides datasource

**11.What is DbContext Class**

Connection between entity classes and databases.

DbContext is the primary class that is responsible for interacting with the database. It is responsible for the following activities:

* Querying: Converts LINQ-to-Entities queries to SQL query and sends them to the database.
* Change Tracking: Keeps track of changes that occurred on the entities after querying from the database.
* Persisting Data: Performs the Insert, Update and Delete operations to the database, based on entity states.
* Caching: Provides first level caching by default. It stores the entities which have been retrieved during the life time of a context class.
* Manage Relationship**:** Manages relationships using CSDL, MSL and SSDL in Db-First or Model-First approach, and using fluent API configurations in Code-First approach.
* Object Materialization**:** Converts raw data from the database into entity objects.

**12.Which package needs to install to do the code First approach?**

Microsoft entity framework

**13. What are all the codes available in context file?**

The class derived from the dbcontext is context file and it contains entities(dbset with which we can create tables for the classes)

**14.What is Layout.cshtml?**

It holds the layout of webpage in the application

**15.How to perform server side validation in MVc?**

We perform it using classes . create class under Models >create control action>action method should have logic for required validation(can add error message)

**16.List out all validation attribute in MVC**

| Attribute | Usage |
| --- | --- |
| Required | Specifies that a property value is required. |
| StringLength | Specifies the minimum and maximum length of characters that are allowed in a string type property. |
| Range | Specifies the numeric range constraints for the value of a property. |
| RegularExpression | Specifies that a property value must match the specified regular expression. |
| CreditCard | Specifies that a property value is a credit card number. |
| CustomValidation | Specifies a custom validation method that is used to validate a property. |
| EmailAddress | Validates an email address. |
| FileExtension | Validates file name extensions. |
| MaxLength | Specifies the maximum length of array or string data allowed in a property. |
| MinLength | Specifies the minimum length of array or string data allowed in a property. |
| Phone | Specifies that a property value is a well-formed phone number |

**17. How to add navigation link in Header?**

Right click on controller>Add view>Name>Add>in shared we can see layout.cshtml>add navigation

**18.Which html helper is used to create Link?**

Html.ActionLink

**19.Explain about @html.ActionLink helper and its parameter**

Html. ActionLink creates a hyperlink on a view page and the user clicks it to navigate to a new URL. It does not link to a view directly, rather it links to a controller's action.

The first parameter is the link text, and the second parameter is the name of the controller action.

**20.You have added all validation attribute but you have not enable validation Message in your view (.cshtml). is your validation works or not?**

Not works. When you have validation enabled, you can receive messages that validate a filter or function expression. You can receive either warnings or errors based on the information that you have specified in your mapping specification.