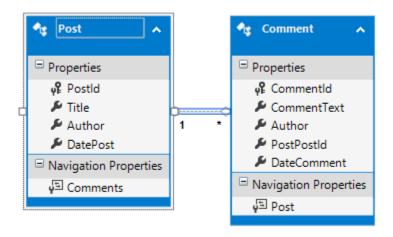
1. Un proiect cu EF ce contine modelul (class library):



In cadrul acestui proiect se defineste serviciul:

```
[ServiceContract]
public interface IServicePC
{
    [OperationContract]
    Post GetPostById(int id);

    [OperationContract]
    bool AMDPost(Post post); // AddModifyDeletePost

    [OperationContract]
    Post[] GetAllPosts();

    [OperationContract]
    Comment[] GetComments(Post post);

    [OperationContract]
    bool AMDComment(Post post, Comment comment);
}
```

Clasele POCO vor constitui contractul de date, deci trebuiesc adnotate cu {DataContract] si [DataMember].

Aceste clase sunt derivate din BaseEntity:

```
public enum State
{
    Added,
    Unchanged,
    Modified,
```

```
Deleted
}
[DataContract(IsReference = true)]
public abstract class BaseEntity
{
    protected BaseEntity()
        State = State.Unchanged;
    [DataMember]
    public State State { get; set; }
}
public static class EntityConvertState
    public static EntityState ConvertState(State state)
        switch (state)
            case State.Added:
                return EntityState.Added;
            case State.Modified:
                return EntityState.Modified;
            case State.Deleted:
                return EntityState.Deleted;
            default:
                return EntityState.Unchanged;
        }
    }
si clasa Post (Comment este asemanatoare):
using System;
using System.Collections.Generic;
using System.Runtime.Serialization;
[DataContract(IsReference= true)]
public partial class Post:BaseEntity
{
    [System.Diagnostics.CodeAnalysis.SuppressMessage("Microsoft.Usage",
           "CA2214:DoNotCallOverridableMethodsInConstructors")]
    public Post()
    {
        this.Comments = new HashSet<Comment>();
    DataMember
    public int PostId { get; set; }
    [DataMember]
    public string Title { get; set; }
    DataMember
    public string Author { get; set; }
    [DataMember]
    public System.DateTime DatePost { get; set; }
    [System.Diagnostics.CodeAnalysis.SuppressMessage("Microsoft.Usage",
           "CA2227:CollectionPropertiesShouldBeReadOnly")]
```

```
[DataMember]
       public virtual ICollection<Comment> Comments { get; set; }
   Implementarea interfetei IServicePC este urmatoarea:
public class ServicePC : IServicePC
   {
       public Post GetPostById(int id)
            using (var context = new wcfEntities())
            {
                //context.Configuration.LazyLoadingEnabled = false;
                //context.Configuration.ProxyCreationEnabled = false;
                context.NoLazyLoading(); // contine ce e comentat mai sus
                var item = context.Posts.Where(x => x.PostId == id).FirstOrDefault();
                Console.WriteLine(item.ToString());
                return item;
            }
        }
       public bool AMDPost(Post post)
              // trebuie implementata
            return true;
        }
       public Post[] GetAllPosts()
            using (wcfEntities context = new wcfEntities())
            {
                context.NoLazyLoading();
                var items = context.Posts;
                Post[] posts = items.ToArray<Post>();
                return posts;
            }
        }
        public Comment[] GetComments(Post post)
            // trebuie implementata
        public bool AMDComment(Post post, Comment comment)
           // cod
            return true;
   }
```

Proiectul 2 este host-ul pentru serviciu

Este o aplicatie CUI

Proiectul 3 este aplicatia Web ASP.NET MVC ce foloseste acest serviciu.

Dupa ce s-a generat aplicatia se adauga referinta la serviciu.

Se lanseaza serviciul (proiectul 2).

In proiectul 3 se aduga referinta la serviciu, ServiceReference, (nu mai folosim svcutil.exe).

Numele referintei este ServiceReference1.

Dupa ce am adaugat referinta la serviciu in web.config (la sfarsit) va trebui sa avem ceva de genul:

```
<system.serviceModel>
    <br/>
<br/>
dings>
      <basicHttpBinding>
        <binding name="BasicHttpBinding_IServicePC" />
      </basicHttpBinding>
    </bindings>
    <client>
      <endpoint address="http://localhost:8080/post"</pre>
                binding="basicHttpBinding"
            bindingConfiguration="BasicHttpBinding_IServicePC"
            contract="ServiceReference1.IServicePC"
            name="BasicHttpBinding IServicePC" />
    </client>
</system.serviceModel>
Modificam actiunea Index() din controller Home astfel:
public ActionResult Index()
    {
          ServiceReference1.ServicePCClient pc =
                  new ServiceReference1.ServicePCClient();
        ServiceReference1.Post post = pc.GetPostById(1);
        return View(post);
      }
```

Aici parametrul e hard coded. Modificam Index.cshtml

```
@model WebApplication1.ServiceReference1.Post

@{
    ViewBag.Title = "Home Page";
}

<div class="jumbotron">
    <h1>@Html.DisplayFor(model=>model.Title)</h1>
```

in rest fisierul ramane la fel.

Vrem sa demonstram ca ceea ce returneaza actiunea Index() apare in view Index.

Va ramane sa implementati celelalte actiuni si vizualizari.