Exercise 3

Phase 2. Prototype with remote access (eLibrary_v3)

Make a copy of the entire folder eLibrary_v2 and rename it as eLibrary_v3. Open the new project folder.

3.1. On the server side: Creating a project eLibraryHost of Windows Service type.

Step 1

- Create a new project **eLibraryHost** - *Windows->Windows Service in the folder* **eLibrary_v3**
- Save the project **eLibraryHost (**with a new solution with the same name) in the folder **\eLibrary_v3**

- Add the project **eLibraryServer** into the new solution
  Use **file>Add>Existing project ..**

Step 2

Open the **Service1.cs** file.
- Edit the functions **OnStart()** and **OnStop()** in order to write to a text file **eLibraryHostLog.txt** in C: directory**:**

```
protected override void OnStart(string[] args)
{
    System.IO.File.AppendAllText("C:\\eLibraryHostLog.txt", "eLibraryHost STARTED at " + DateTime.Now.ToString() +Environment.NewLine);
    doRemotingConfiguration();
}

protected override void OnStop()
{
    System.IO.File.AppendAllText("C:\\eLibraryHostLog.txt", "  STOPPED at  " + DateTime.Now.ToString() + Environment.NewLine);
}
```

Step 3

Create an item Installer in the project, which serves to establish the parameters for the connection with **Services Control Manager** (SCM).

- Open the file ***Service1.cs*** in [*design*] view. With right mouse click choose the context menu and option **Add Installer**.
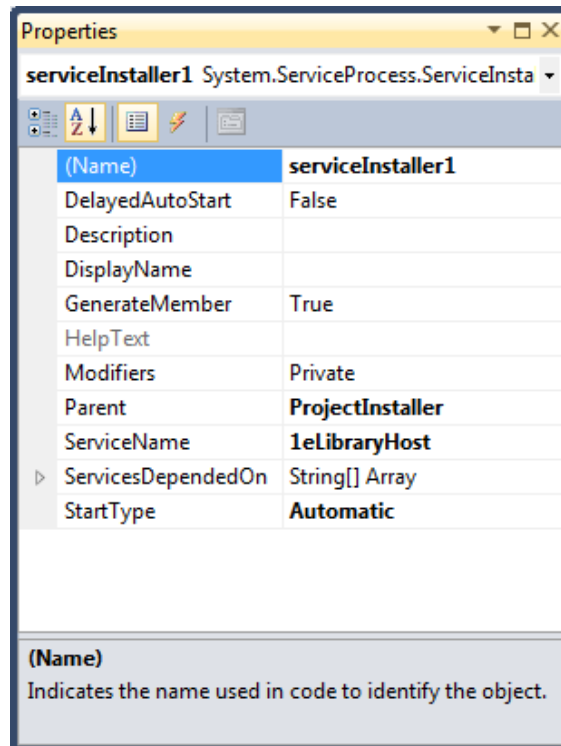
  As a result a ***ProjectInstaller.cs*** file is created.
  If you open the file *ProjectInstaller.cs in* [*design*] view , there are two objects in it.
    - **serviceInstaller1**
    - **serviceProcessInstaller1**
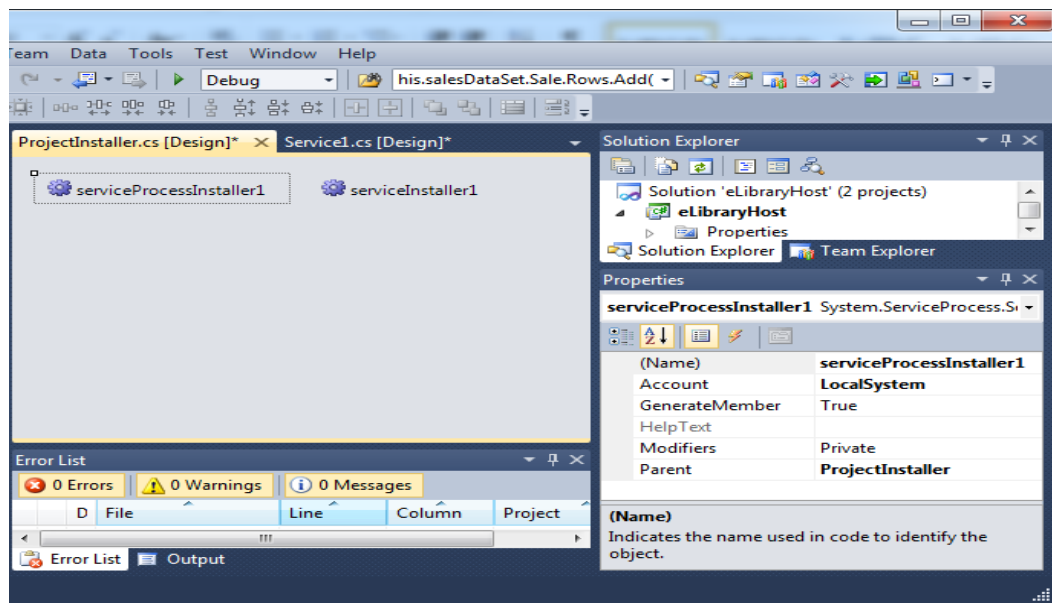
- Configuring the **ServiceInstaller1** object.

Choose the *ServiceInstaller1* control and set the following properties:
- *ServiceName* = "1eLibraryHost"
- *StartType* = "**Automatic**"

- Configuring the **serviceProcessInstaller1** object**.**

Choose the *serviceProcessInstaller1* properties. Set the following properties: **Account** to **LocalSystem**.

Build the project to check for errors (no action will be produced, except checking for mistakes).

Step 4

Installing the created service:

Installing a service using the VS2010 Command Prompt:

- Open the console Start>All Programs> Microsoft Visual Studio 2010> Visual Studio Tools> Visual Studio Command Prompt (2010) with right mouse click > Run as administrator
- Set the current directory with the command **cd.. (**the current directory have to be **bin / Debug** directory of your project **eLibraryHost**):

> … \eLibrary_v3\eLibraryHost\bin\Debug
- Install the service with command:

> … \eLibrary_v3\eLibraryHost\bin\Debug>   **installutil** eLibraryHost.exe

> (uninstalling command - **installutil /u** eLibraryHost.exe)

.NET Console (Not DOS console!)

C:> cd c:\..\ eLibrary_v3\eLibraryHost\bin\Debug
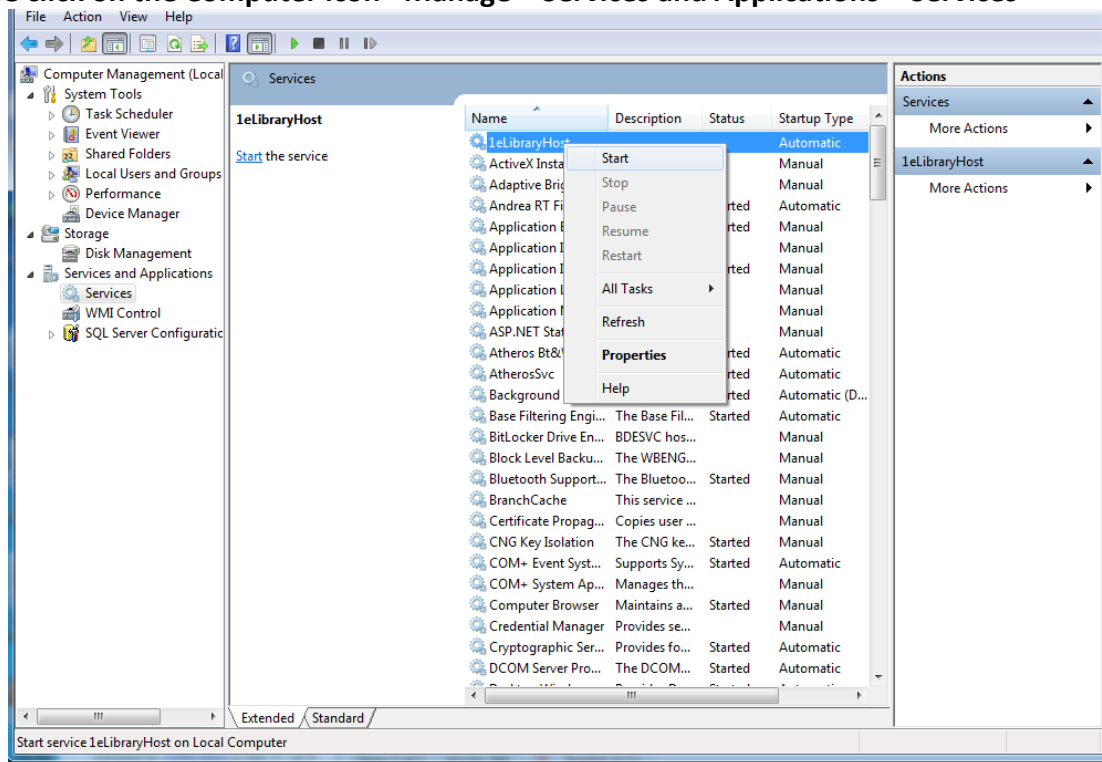
C:\..\ eLibrary_v3\eLibraryHost\bin\Debug >installutil eLibraryHost.exe

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Step 5

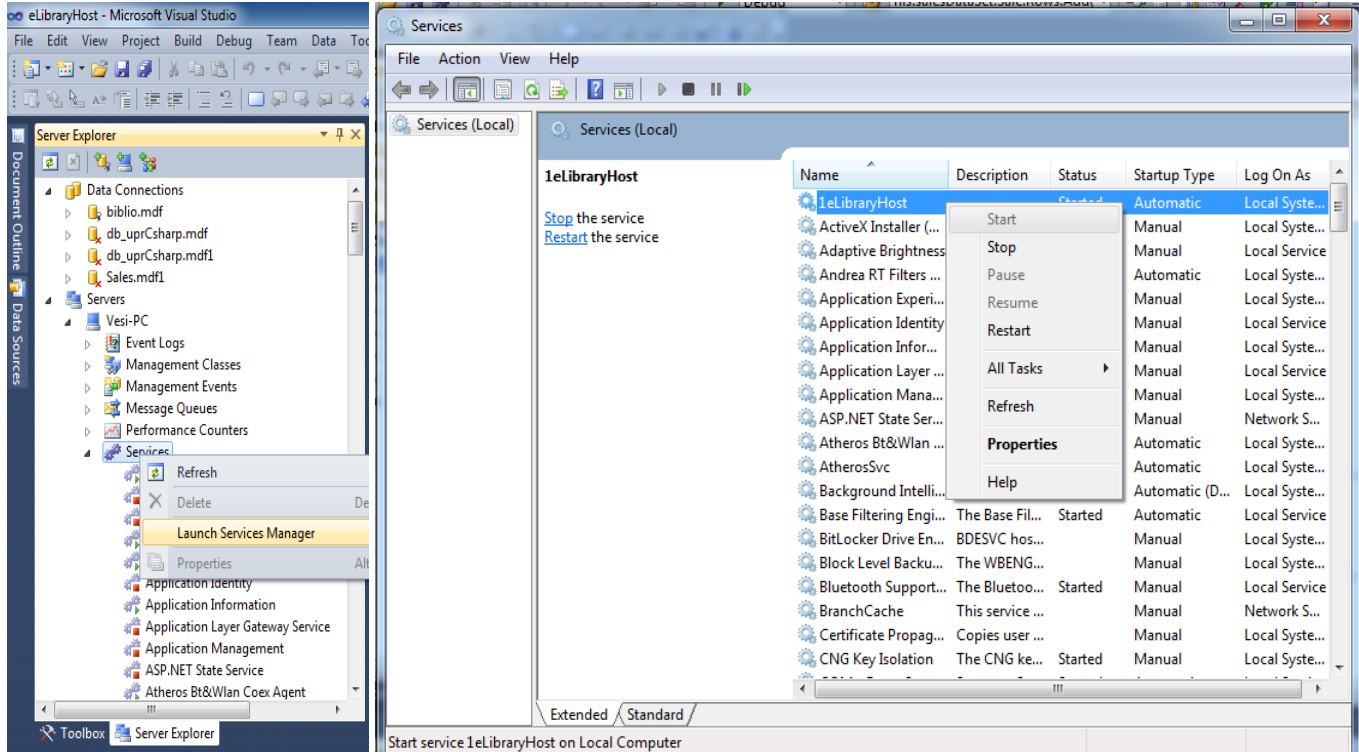Starting the installed service. Starting *Services Control Manager (SCM)*

I variant

Right mouse click on the Computer icon> Manage > Services and Applications > Services

3

Right mouse click on the Services in Visual Studio/Server Explorer > Launch Services Manager

Add to the current project both eLibraryClient and eLibraryServer projects.