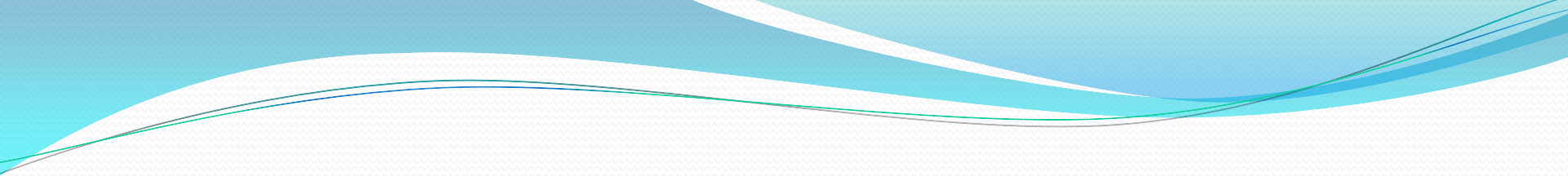


TECHNICAL INFRASTRUCTURE SGB.NET

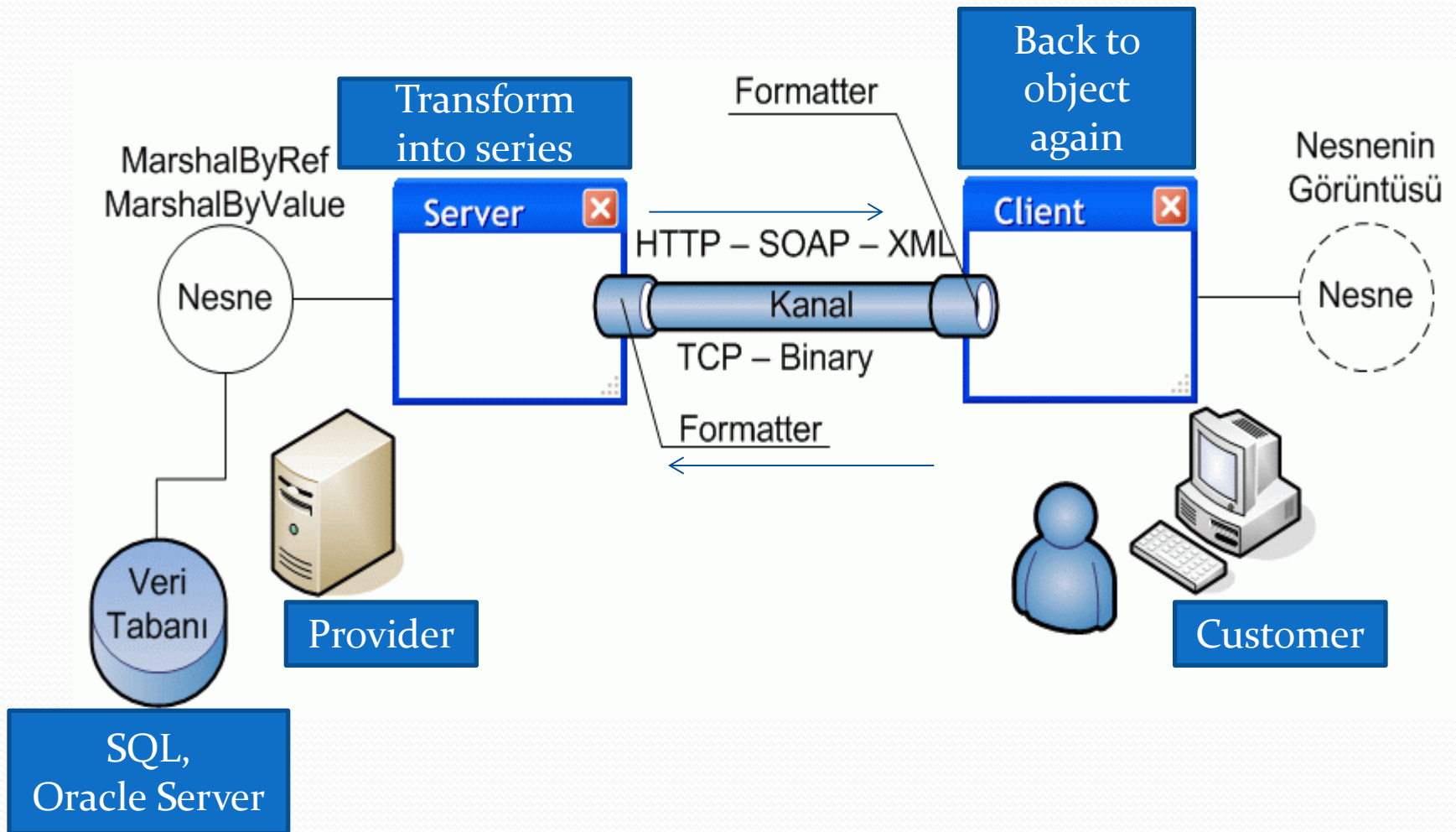
Gulistan Sevgi

OVERVIEW OF TECHNICAL INFRASTRUCTURE

- Sgb.Net is a web-based project.
- SGB.Net project applies Microsoft .Net Remoting as infrastructure.
- It supports both ORACLE and Microsoft SQL server as database management system.
- SGB.Net schematically shows interaction of the two systems.

- 
- Web –provider and sql -provider can be on the same server or on different servers.
 - The required data for connection between web-provider and sql server provider are located in web.config file with the web-provider.
 - Remoting technology allows the customer and the provider to be with the same provider, or, in order to reduce the load on the same provider , another one can be used.

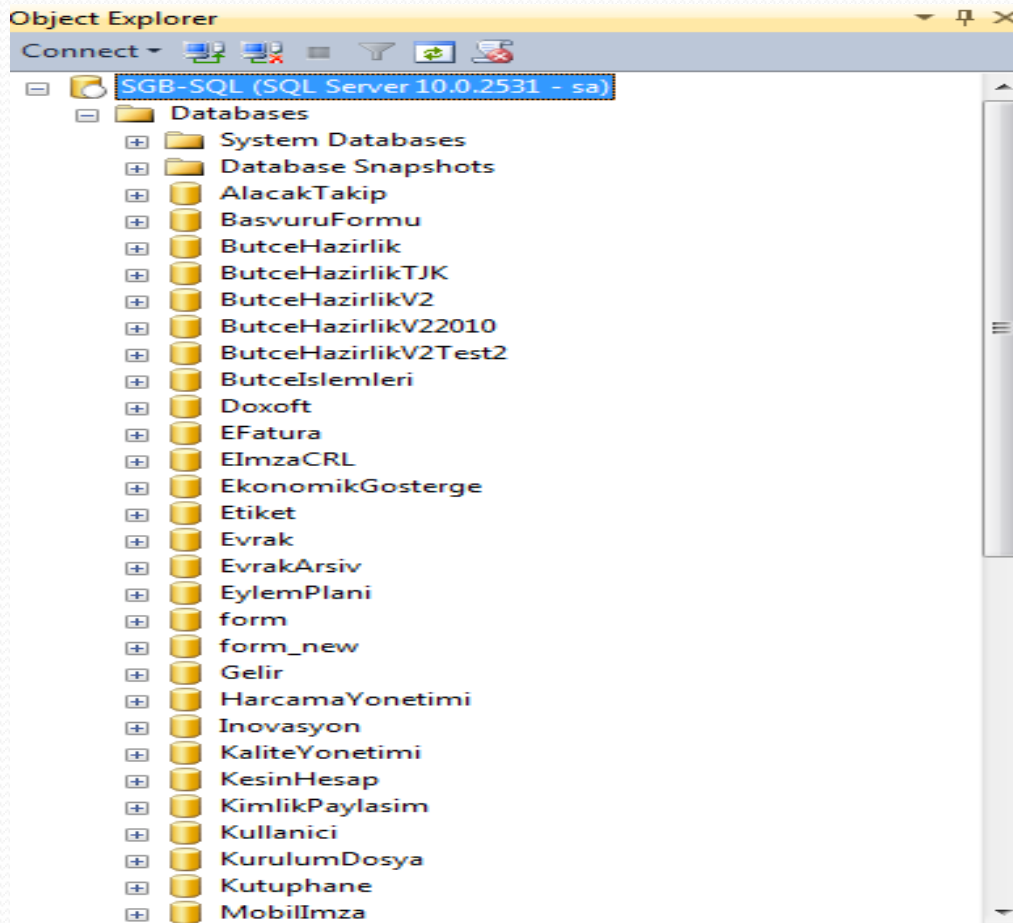
.Net Remoting Scheme



.Net Remoting

- Within .Net remoting, as soon as he receives a request from a server for an object, the provider makes a copy of this object, transforms it into a series and sends it to the customer.
- When reaching the customer, the objects coming as series transform back into objects again and used as such.

Database Structure



About the Database

- Database provider creates separate databases for each module.
- To provide connection, data from the web.config file are used. Thus, database provider and database to connect with are known for each module.

SGB.NET FUNCTIONAL INFRASTRUCTURE

Overview

- SGB.Net has several modules.
- A separate project is made for each module.
- If there is a DLL (Dynamic Link Library) to be used with the modules, this DLL shall be in 'ortakDLL' file (shared DLL).
- The file on the SGB.Net developer's screen will look like this:



























D:\inetpub\wwwroot\sgb.netv2

BuildProcessTemplates	30.11.2011 16:10	Dosya klasörü
ConsoleApplication1	30.11.2011 16:10	Dosya klasörü
ConsoleApplication2	30.11.2011 16:10	Dosya klasörü
ConsoleApplication3	06.06.2013 10:01	Dosya klasörü
ConsoleApplication4	04.10.2013 16:52	Dosya klasörü
ConsoleApplication5	25.05.2012 14:51	Dosya klasörü
Dosyalar	09.09.2011 14:16	Dosya klasörü
EFaturaIslem	06.09.2013 14:55	Dosya klasörü
EFaturaServis	06.09.2013 15:15	Dosya klasörü
EksikBasvuruMernisSorgu	30.01.2013 10:00	Dosya klasörü
HizliGiris	30.01.2013 10:00	Dosya klasörü
Istemci	24.10.2013 14:33	Dosya klasörü
Jexcel_2_6_2	30.11.2011 16:20	Dosya klasörü
KullaniciOlustur	27.03.2013 14:41	Dosya klasörü
MEBMasaUstu	23.09.2013 11:22	Dosya klasörü
MEBTekNoktadanGiris	30.01.2013 10:00	Dosya klasörü
MEBVeriAktarim	29.05.2013 10:40	Dosya klasörü
MPRevizeden4DuzeyDegisim	11.02.2013 11:06	Dosya klasörü
ortakDLL	19.09.2013 13:50	Dosya klasörü
packages	04.12.2012 16:15	Dosya klasörü
Sunucu	16.05.2013 10:12	Dosya klasörü
UATNG	11.07.2013 11:52	Dosya klasörü
UATNG2	11.07.2013 11:52	Dosya klasörü
VeriUretici	31.08.2012 14:14	Dosya klasörü
WindowsFormsApplication1	29.05.2013 10:40	Dosya klasörü
WindowsServiceTUIK	07.02.2012 12:27	Dosya klasörü
xll	06.03.2012 14:40	Dosya klasörü

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- Within the folder, codes are divided into two parts. One of these parts is customer, the other one is provider.
- The “Customer”’s folder contains interfaces with operator and has java script and c# codes belonging to these interfaces.
- The structure in the Customer’s folder with codes of modules looks like this.



























D:\inetpub\wwwroot\sgb.netv2\Istemci

 AlacakTakip	13.03.2012 10:50	Dosya klasörü
 App_GlobalResources	22.10.2013 15:41	Dosya klasörü
 App_GlobalResources2	21.04.2011 11:52	Dosya klasörü
 App_themes	22.10.2013 15:41	Dosya klasörü
 bin	22.10.2013 15:41	Dosya klasörü
 ButceForm	30.01.2013 10:00	Dosya klasörü
 ButceHazirlikv2	04.10.2013 16:29	Dosya klasörü
 ButceMuhasebe	04.10.2013 16:52	Dosya klasörü
 ButceUygulama	24.01.2013 10:31	Dosya klasörü
 ButunlesikMaliSistem	30.01.2013 10:00	Dosya klasörü
 ckeditor	09.09.2011 14:26	Dosya klasörü
 DashBoard	09.09.2011 13:47	Dosya klasörü
 Dosyalar	29.01.2013 10:51	Dosya klasörü
 Duyuru	19.09.2013 13:57	Dosya klasörü
 EFatura	13.03.2012 10:50	Dosya klasörü
 E-Imza	09.09.2011 14:26	Dosya klasörü
 EkonomikGosterge	19.03.2013 16:21	Dosya klasörü
 Evrak	01.10.2013 11:19	Dosya klasörü
 GelirSurecleri	11.07.2013 11:51	Dosya klasörü
 GorevYonetimi	30.01.2013 10:00	Dosya klasörü
 HarcamaSurecleri	30.09.2013 11:40	Dosya klasörü
 HizliGiris	25.09.2013 16:04	Dosya klasörü
 InsanKaynaklari	16.05.2013 10:12	Dosya klasörü
 IPA	30.01.2013 10:00	Dosya klasörü
 KDS	31.01.2013 10:12	Dosya klasörü
 KesinHesap	11.06.2012 11:48	Dosya klasörü

D:\inetpub\wwwroot\sgb.netv2\Sunucu

- The folder with provider's codes is the "Provider"'s folder.
- The Provider's folder contains files for each module with a "short name of the module" and ending in 'servis'. Each of these folders contains folders with codes of the respective module.
- The structure of the Provider's folder with codes of modules looks like this.

D:\inetpub\wwwroot\sgb.netv2\Sunucu

 ATMServis	09.09.2011 13:47	Dosya klasörü
 BHFServis	09.09.2011 13:47	Dosya klasörü
 BHMv2Servis	09.09.2011 13:47	Dosya klasörü
 BMSServis	26.03.2012 14:55	Dosya klasörü
 BUMServis	09.09.2011 13:47	Dosya klasörü
 DEGServis	09.09.2011 13:47	Dosya klasörü
 EFTServis	09.09.2011 13:47	Dosya klasörü
 EKGServis	31.01.2012 13:51	Dosya klasörü
 EVRServis	09.09.2011 13:47	Dosya klasörü
 FRMServis	09.09.2011 13:47	Dosya klasörü
 GELServis	09.09.2011 13:47	Dosya klasörü
 GNLServis	23.09.2013 11:20	Dosya klasörü
 GRVServis	28.03.2012 14:40	Dosya klasörü
 HRCServis	09.09.2011 13:47	Dosya klasörü
 IKYServis	16.05.2013 10:12	Dosya klasörü
 KHMServis	09.09.2011 13:47	Dosya klasörü
 KPMServis	09.09.2011 13:47	Dosya klasörü
 KTPServis	09.09.2011 13:47	Dosya klasörü
 KYMServis	12.03.2012 16:44	Dosya klasörü
 MUHServis	09.09.2011 13:47	Dosya klasörü
 ORGServis	24.11.2011 10:27	Dosya klasörü
 PEBServis	09.09.2011 13:47	Dosya klasörü
 PERServis	09.09.2011 13:47	Dosya klasörü
 PERv2Servis	09.09.2011 13:47	Dosya klasörü
 SBServis	09.07.2012 14:04	Dosya klasörü
 STRServis	09.09.2011 13:47	Dosya klasörü

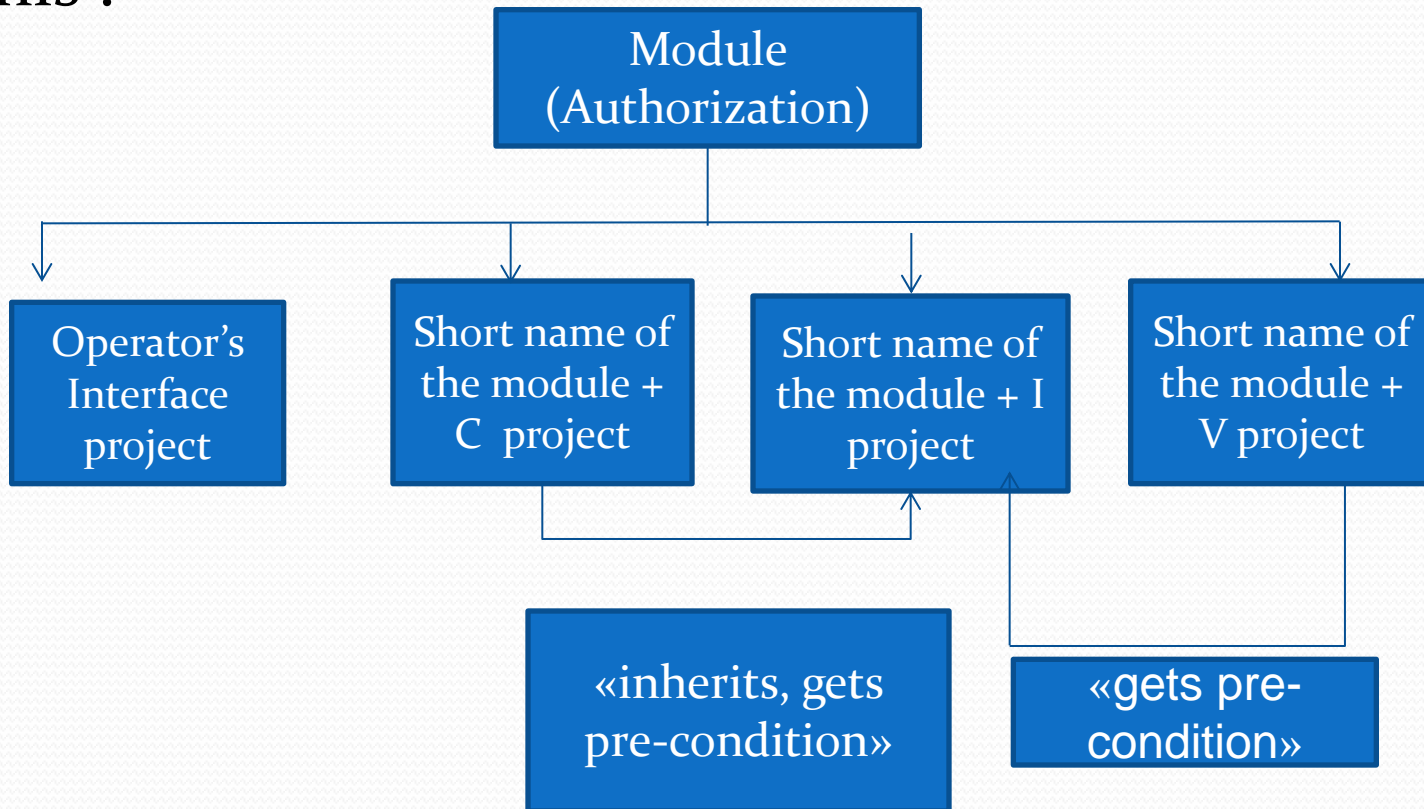
Provider

- Provider's folder has three files of each module with a "short name of the module" and ending in C, I, V .
- For instance, codes of the expenditure module look like this :

 HRCServisC	30.09.2013 11:40	Dosya klasörü
 HRCServisI	20.09.2013 15:56	Dosya klasörü
 HRCServisV	17.09.2013 10:33	Dosya klasörü

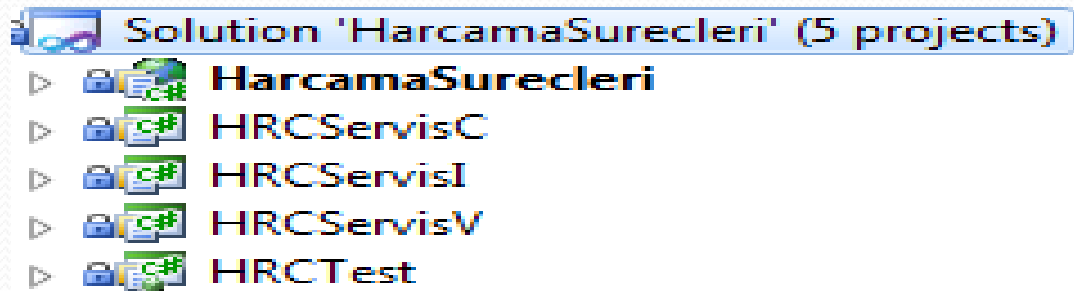
General Structure of the Module

In .Net development framework, SGB.Net codes look like this :



General Structure of the Module

- The above Expenditure Module will have the following scheme :



Operator's Interface

- Project module's name (operator's interface)
 - For instance: expenditure processes
 - This part will show operator's data.
 - The project has files with applications .aspx , .js , .css.

Working layer

- Module's name + project C (working layer)
 - For instance, HRCServisC
 - This project controls compliance of data.
 - If the input data align with the set criteria, they are then transferred to the database layer.
 - Module's name + I inherits from interface and exercises functions of this layer.

Interface layer between the working layer and the database layer

- Module's name + project I (interface layer)
 - For instance: HRCServisI
 - Inside this project, there are general classes, enumerators and functions.
 - C Project and V Project take this interface as pre-condition.
 - C Project additionally inherits from this interface and exercises the tasks of the required functions.

Data node layer

- Module's name + I project (data node layer)
 - This layer includes operations connected with the database.
 - Within the C project (working layer), if the checked data are correct and aligning, they are sent to this layer.
 - In this layer, the data are input into the database or read from the database and via the working layer they are transmitted to the operator's interface layer.