Web Service	WS01
Description	Creates a new user/client
Related Core Views	V_001
Route	Base/Clientes/Atualiza

Input example	{
	    "Cliente": "1",
	    "Nome": "Manfred Reubens",
	    "Morada": "Praceta Conde Arnoso 60",
	    "CodigoPostal": "2640-467",
	    "Telefone": "6705966965",
	    "NumContribuinte": "64287048860",
	    "Pais": "PT",
	    "Moeda": "EUR"
	}

Expected Output	HTTP 204

Web Service	WS02
Description	Gets the relevant information of an user/client
Related Core Views	V_001, V_006, V_008
Route	Base/Clientes/Edita/{cliente_id}
Input example	cliente_id = "TIAGO" (parameter in the route)

Expected Output	{
	    "CodigoTabLog": "Cliente",
	    "ChaveLog": "Cliente",
	    "EstadoBE": "",
	    "Cliente": "TIAGO",
	    "Nome": "Tiago Santos",
	    "Descricao": "",
	    "Morada": "Rua Eng. Farinas de Almeida, 313, 4º esq",
	    (...)
	    "CamposUtil": [
	        {
	            "Conteudo": "ValorValoremailxyz@gmail.com",
	            "Nome": "CDU_email",
	            "Valor": "emailxyz@gmail.com",
	            "Objecto": null,
	            "Tipo": 1,
	            "ChaveLog": "Nome",
	            "EstadoBE": "",
	            "TipoSimplificado": 1
	        },
	        {
	            "Conteudo": "ValorValor03AC674216F3E15C761EE1A5E255F067953623C8B388B4459E13F978D7C846F4",
	            "Nome": "CDU_password_hash",
	            "Valor": "03AC674216F3E15C761EE1A5E255F067953623C8B388B4459E13F978D7C846F4",
	            "Objecto": null,

```
                "Tipo": 1,
                "ChaveLog": "Nome",
                "EstadoBE": "",
                "TipoSimplificado": 1
            }
        ],
        (...)
    }
```

Web Service	WS03
Description	Updates the information of an user/client
Related Core Views	V_008
Route	Base/Clientes/Actualiza

Input example	<pre>//Input is the same as the output of WS02, but with some changed attributes,
	//such as Morada, CDU_email and CDU_password_hash
	{
	    "CodigoTabLog": "Cliente",
	    "ChaveLog": "Cliente",
	    "EstadoBE": "",
	    "Cliente": "TIAGO",
	    "Nome": "Tiago Santos",
	    "Descricao": "",
	    "Morada": "Nova Morada, 451",
	    (...)
	    "CamposUtil": [
	        (...)
	        {
	            "Conteudo": "ValorValornewemail@gmail.com",
	            "Nome": "CDU_email",
	            "Valor": "newemail@gmail.com",
	            "Objecto": null,
	            "Tipo": 1,
	            "ChaveLog": "Nome",
	            "EstadoBE": "",
	            "TipoSimplificado": 1
	        },
	        {
	            "Conteudo": "ValorValor253C2E786C2414DCAEC8DBF11DF515B5075371454B93A5687D24D96DDBF3B939",
	            "Nome": "CDU_password_hash",
	            "Valor": "253C2E786C2414DCAEC8DBF11DF515B5075371454B93A5687D24D96DDBF3B939",
	            "Objecto": null,
	            "Tipo": 1,
	            "ChaveLog": "Nome",
	            "EstadoBE": "",
	            "TipoSimplificado": 1
	        }
	    ],
	    (...)
	}</pre>

Expected Output	HTTP 204

Web Service	WS04
Description	Gets all the relevant information of a book
Related Core Views	V_004, V_005, V_006, V_007
Route	Administrador/Consulta

Input example	
	``sql
	-- select the relevant info of book "B0001"
	
	Select Descricao, CDU_Autor, CDU_Sinopse, CDU_ISBN,
	CDU_Editora, CDU_Capa, CDU_Paginas, CDU_Ano, CDU_Dimensoes,
	Familia, CDU_Idioma, PVP1
	from Artigo, ArtigoMoeda
	where Artigo.Artigo = 'B0001' and Artigo.Artigo = ArtigoMoeda.Artigo
	``

Expected Output	
	``json
	{
	    "DataSet": {
	        "Table": [
	            {
	                "Descricao": "A Brief History Of Time",
	                "CDU_Autor": "Stephen Hawking",
	                "CDU_Sinopse": "A landmark volume in science writing by one of the great minds of our t
	                "CDU_ISBN": "0857501003",
	                "CDU_Editora": "Transworld Publishers Ltd",
	                "CDU_Capa": "Paperback",
	                "CDU_Paginas": 272,
	                "CDU_Ano": "05 Feb 2015",
	                "CDU_Dimensoes": "127 x 198 x 17mm",
	                "Familia": "FICTION",
	                "CDU_Idioma": English,
	                "PVP1": 25.99
	            }
	        ]
	    },
	    "Query": "System.Data.SqlClient.SqlCommand"
	}
	``

‹ ═══════════════════════════ ›

Web Service	WS05
Description	Gets a set of books that belong to the specified category
Related Core Views	V_001, V_004
Route	Administrador/Consulta

Input example	
	``sql
	-- select all books that belong to the category "IT"
	
	Select Artigo.Artigo, Descricao, PVP1, CDU_Autor
	from Artigo, ArtigoMoeda
	where Familia = 'IT' and Artigo.Artigo = ArtigoMoeda.Artigo
	``

	``json
	{
	``

| Expected Output | ```
    "DataSet": {
        "Table": [
            {
                "Artigo": "B0003",
                "Descricao": "Introdução à Programação em Java",
                "PVP1": 20,
                "CDU_Autor": "António Manuel Adrego da Rocha"
            },
            {
                "Artigo": "B0004",
                "Descricao": "Introdução à programação em C",
                "PVP1": 25,
                "CDU_Autor": "António Manuel Adrego da Rocha"
            }
        ]
    },
    "Query": "System.Data.SqlClient.SqlCommand"
}
``` |

Web Service	WS06
Description	Searches books by title, including partial strings
Related Core Views	V_006, V_001
Route	Administrador/Consulta
| Input example | ```
-- select all books with "Intro" in the title

"Select Artigo.Artigo, Descricao, CDU_Autor, PVP1
from Artigo, ArtigoMoeda
where Descricao like '%Intro%' and Artigo.Artigo = ArtigoMoeda.Artigo"
``` |
| Expected Output | ```
{
    "DataSet": {
        "Table": [
            {
                "Artigo": "B0003",
                "Descricao": "Introdução à Programação em Java",
                "CDU_Autor": "António Manuel Adrego da Rocha",
                "PVP1": 20
            },
            {
                "Artigo": "B0004",
                "Descricao": "Introdução à programação em C",
                "CDU_Autor": "António Manuel Adrego da Rocha",
                "PVP1": 25
            }
        ]
    },
    "Query": "System.Data.SqlClient.SqlCommand"
}
``` |

Web Service	WS07
Description	Gets a list of books ordered by smallest price
Related Core Views	V_001

Route	Administrador/Consulta
| Input example | ```
Select Artigo.Artigo, Descricao, PVP1, CDU_Autor
from Artigo, ArtigoMoeda
where Artigo.Artigo = ArtigoMoeda.Artigo order by PVP1
``` |
| Expected Output | ```
{
    "DataSet": {
        "Table": [
            {
                "Artigo": "B0026",
                "Descricao": "Keep Quiet",
                "PVP1": 6.01,
                "CDU_Autor": "Lisa Scottoline",
                "STKActual": 0
            },
            {
                "Artigo": "B0024",
                "Descricao": "Murder on the Orient Express",
                "PVP1": 6.06,
                "CDU_Autor": "Agatha Christie",
                "STKActual": 0
            },
            {
                "Artigo": "B0022",
                "Descricao": "Heroes Are My Weakness",
                "PVP1": 7.31,
                "CDU_Autor": "Susan Elizabeth Phillips",
                "STKActual": 0
            },
            (...)
        ]
    },
    "Query": "System.Data.SqlClient.SqlCommand"
}
``` |

Web Service	WS08
Description	Gets a list of books ordered by the last date they were updated (first is the most recent)
Related Core Views	V_008
Route	Administrador/Consulta
| Input example | ```
Select Artigo.Artigo, Descricao, PVP1, CDU_Autor, DataUltimaActualizacao
from Artigo, ArtigoMoeda
where Artigo.Artigo = ArtigoMoeda.Artigo order by DataUltimaActualizacao desc
``` |
| | ```
{
    "DataSet": {
        "Table": [
            {
                "Artigo": "B0003",
                "Descricao": "Introdução à Programação em Java",
                "PVP1": 20,
                "CDU_Autor": "António Manuel Adrego da Rocha",
                "DataUltimaActualizacao": "2018-12-02T02:04:21"
            },
            {
``` |

Expected Output	```json
	                "Artigo": "B0005",
	                "Descricao": "Foi Sem Querer Que Te Quis",
	                "PVP1": 12,
	                "CDU_Autor": "Raul Minh'alma ",
	                "DataUltimaActualizacao": "2018-12-02T02:03:39"
	            },
	            {
	                "Artigo": "B0004",
	                "Descricao": "Introdução à programação em C",
	                "PVP1": 25,
	                "CDU_Autor": "António Manuel Adrego da Rocha",
	                "DataUltimaActualizacao": "2018-12-02T01:59:40"
	            },
	            {
	                "Artigo": "B0002",
	                "Descricao": "Romeu e Julieta",
	                "PVP1": 25,
	                "CDU_Autor": "William Shakespeare ",
	                "DataUltimaActualizacao": "2018-12-02T01:50:31"
	            },
	            {
	                "Artigo": "B0001",
	                "Descricao": "A Brief History Of Time",
	                "PVP1": 25.99,
	                "CDU_Autor": "Stephen Hawking",
	                "DataUltimaActualizacao": "2018-12-02T01:46:43"
	            },
	            (...)
	        ]
	    },
	    "Query": "System.Data.SqlClient.SqlCommand"
	}
	``

Web Service	WS09
Description	Makes a purchase of the specified items, producing an ECL document on the ERP
Related Core Views	V_007
Route	Administrador/Consulta

Input example	```json
	{
	  "Linhas": [
	    {
	      "Artigo": "B0001",
	      "Quantidade": "1"
	    },
	    {
	      "Artigo": "B0002",
	      "Quantidade": "1"
	    }
	  ],
	  "Tipodoc": "ECL",
	  "Serie": "A",
	  "Entidade": "C0001",
	  "TipoEntidade": "C",
	  "DataDoc":"12/11/2018",
	  "DataVenc":"12/12/2018"
	}
	``

Expected Output	true

(WS10 has become deprecated in the final version of the project, as it turned out to not be needed)

Web Service	WS11
Description	Gets the specified ECL document
Related Core Views	V_005, V_006
Route	Vendas/Docs/Edita/000/ECL/A/{id}
Input example	id = 1 (parâmetros da rota)

Expected Output	{
	    "IDDiarioCaixa": "",
	    "OrigemPOS": false,
	    (...)
	    "PropExcluirLog": "",
	    "Linhas": [
	        {
	            "ChaveLog": "Artigo,Armazem,Lote,TipoLinha",
	            "EstadoBE": "",
	            (...)
	            "IntrastatValorLiq": 0,
	            "NumLinDocOriginal": 0,
	            "CamposUtil": [
	                {
	                    "Conteudo": "ValorValor",
	                    "Nome": "CDU_LinVar1",
	                    (...)
	                    "EstadoBE": "",
	                    "TipoSimplificado": 1
	                },
	                (...)
	             ],
	            (...)
	            "BaseIncidencia": 0,
	            "RegraCalculoIncidencia": 0,
	            "DadosAdiantamento": {
	                "Conteudo": "DifArredondamentoMAlt0DifArredondamentoMBase0DifCambioMAlt0DifCambioMBase0
	                "MoedaDocOrig": "",
	                 (...)
	             },
	            "DadosImpostoSelo": {
	                "Ano": 0,
	                "Selo": "",
	                (...)
	             },
	            "ValorLiquidoDesconto": 0,
	            "IvaValorDesconto": 0,
	            (...)
	            "ValorProcessoAnosSeguintes": 0,
	            "AbvtApl": "VND"
	        }
	    ],
	    "Retencoes": [],
	    "ResumoIva": [
	        {
	            "ChaveLog": "Filial,Serie,Tipodoc,NumDoc,CodIva",
	            "EstadoBE": "",
	            (...)
	            "ValorDesconto": 0,
	            "AbvtApl": "BAS"
	        }
	    ],
	    "ID": "8cf01dd8-f667-11e8-b6a5-08002756714a",
	    "IDCabecMovCbl": "a5f9744c-f667-11e8-b6a5-08002756714a",
	    (...)
	    "ValorEntregueCambio": 0,

```
        "EmModoEdicao": true,
        "CamposUtil": [
            {
                "Conteudo": "ValorValor",
                "Nome": "CDU_CabVar1",
                (...)
                "EstadoBE": "",
                "TipoSimplificado": 1
            },
            (...)
        ],
        (...)
        "ContratoFactoring": "",
        "ATDocCodeID": "",
        "CargaDescarga": {
            (...)
            "ATDocCodeID": "",
            "AbvtApl": "BAS"
        },
        "EntidadeDescarga": "C0001",
        "LocalDescarga": "V/ Morada",
        (...)
        "HoraDefinida": false,
        "AbvtApl": "VND"
    }
```

Web Service	WS12
Description	Gets information about the ECL documents
Related Core Views	V_005, V_006
Route	Base/Series/ListaSeries/V/ECL/false

Input example	`[`
	`    {`
	`        "CodigoTabLog": "Series",`
	`        "ChaveLog": "Documento,Serie",`
	`        "EstadoBE": "",`
	`        "Documento": "ECL",`
	`        "Serie": "A",`
	`        "Ordem": 1,`
	`        "Descricao": "Série A",`
	`        "SerieInactiva": false,`
	`        (...)`
	`        "Interna": false,`
	`        "eGarAbreDocumento": false,`
	`        "eGAR_Comunica": false,`
	`        "AbvtApl": "BAS"`
	`    }`
	`]`

Expected Output	HTTP 200