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# Dictionary

|  |  |  |
| --- | --- | --- |
| Novum Code | Novacom Code | Werte |
| Department | FA, Firma | 1001 |
| PosId | Kassa | RK2 |
| ServiceAreaId | Verkaufsort | RES |
| ServiceAreaName | Verkaufsortbezeichnung | Stube |
| PriceLevelId | Preisebene | 1 |
| WaiterId | Kellner | 1 |
| WaiterName | Kellnername | Markus Kogler |
| Table.Id | Tisch | 1010.1 |
| Table.Name | Tischname | 10.1 |
| Table.Amount | Tischbetrag | 12,23 |
| Article.Id | Artikelnummer | 10005 |
| Article.Name | Artikelbezeichnung | Frankfurter |
| Order.ArticleId | Artikelnummer | 10005 |
| Order.Name | Bestellungstext | Schnitzel in Herzform |
| Order.Quantity | Menge | 2 |
| Order.UnitPrice | Einzelpreis | 7,89 |
| Order.TotalPrice | Gesamtpreis | 15,78 |

# Code Snippets

## Server

### GET

|  |
| --- |
| [HttpGet]  [Route("/api/v2/data/ServiceAreas")]  public IActionResult GetServiceAreas()  {  var serviceAreas = Novum.Logic.Os.Data.GetServiceAreas();  return new OkObjectResult(serviceAreas);  } |

### POST

|  |
| --- |
| [HttpPost]  [Route("/api/v2/actions/Auth/Login")]  public IActionResult AuthLogin([FromBody][Required]LoginUser loginUser)  {  **var session = Data.Sessions.GetSession(Request);**  try  {  **session.WaiterId = loginUser.Id;**  **Logic.Os.Registration.Login(session, loginUser);**  **Data.Sessions.SetSession(session);**  **//204 - No Content**  **return new NoContentResult();**  }  catch (Exception ex)  {  session.WaiterId = "";  Data.Sessions.SetSession(session);  var osError = new OsError();  osError.ErrorMsg = ex.Message;  //401 - Unauthorized  return new UnauthorizedObjectResult(osError);  }  } |

## Logic - Businesslogik zwischen Server und Datenbank

### Validierung

|  |
| --- |
| public static void Login(Session session, LoginUser loginUser)  {  bool validWaiter = DB.Api.Waiter.ValidWaiter(session, loginUser.Password);  if (!validWaiter)  throw new Exception(string.Format("user {0} not valid", loginUser.Id));  DB.Api.Waiter.Login(session);  } |

### Novum interne Datenstruktur auf OrderSolutions umwandeln

|  |
| --- |
| using Novum.Data.Os;  namespace Novum.Logic.Os  {  public class Data  {  …  public static List<Category> GetCategories(string menuId)  {  var categories = new List<Category>();  var mainMenus = DB.Api.Menu.GetMainMenu(menuId);  var handledMenuIds = new List<string>();  foreach (Novum.Data.Menu menu in mainMenus.Values)  {  var category = new Category();  category.Name = menu.Name;  var contentEntries = GetCategoryContent(menu.Id, ref handledMenuIds);  category.Content = contentEntries;  categories.Add(category);  }  return categories;  }  …  } |

## Database

### Caché Klassenmethodenaufruf mit Retourwert

|  |
| --- |
| public Dictionary<string, Novum.Data.Table> GetTables()  {  var tables = new Dictionary<string, Novum.Data.Table>();  **var dbString = Interaction.CallClassMethod**("cmNT.Tisch", "GetTischListeAll", Data.Department);  **var tablesString = new Novum.Data.Utils.DataString(dbString);**  **var tablesArray = tablesString.SplitByDoublePipes();**  foreach (string tableString in tablesArray)  {  if (string.IsNullOrEmpty(tableString))  continue;  var table = new Novum.Data.Table(tableString);  tables.Add(table.Id, table);  }  return tables;  } |

### Caché Klassenmethodenaufruf ohne Retourwert

|  |
| --- |
| public void Logout(Session session)  {  var posId = DB.Api.Pos.GetPosId(session.SerialNumber);  **Interaction.CallVoidClassMethod**("cmNT.Kellner", "Kellnerlogout", session.Department, posId, session.WaiterId);  } |

### Caché SQL-Aufruf

|  |
| --- |
| public Dictionary<string, Novum.Data.ServiceArea> GetServiceAreas()  {  var serviceAreas = new Dictionary<string, Novum.Data.ServiceArea>();  **var sql = string.Format("SELECT VKO, bez, vkebene FROM WW.VKO WHERE FA = {0} AND passiv > '{1}'", Data.Department, Interaction.SqlToday);**  **var dataTable = Interaction.GetDataTable(sql);**  foreach (DataRow dataRow in dataTable.Rows)  {  var serviceArea = new Novum.Data.ServiceArea();  **serviceArea.Id = DataObject.GetString(dataRow, "VKO");**  serviceArea.Name = DataObject.GetString(dataRow, "bez");  serviceArea.PriceLevel = DataObject.GetString(dataRow, "vkebene");  serviceAreas.Add(serviceArea.Id, serviceArea);  }  return serviceAreas;  } |

## Data

### Table

|  |
| --- |
| public class Table  {  private enum Index  {  Id = 0,  Name = 1,  Amount = 2,  Comment = 3,  AmmountWithPrebookings = 5,  Status = 6,  WaiterId = 7,  WaiterName = 8,  Opened = 9,  Updated = 10,  Room = 11,  Guests = 13,  LeftTableId = 21,  RightTableId = 22,  AssignmentType = 23  }  public Table(string dbString)  {  if (string.IsNullOrEmpty(dbString))  return;  var dataString = new Utils.DataString(dbString);  var dataList = new Utils.DataList(dataString.SplitByChar96());  this.Id = dataList.GetString((int)Index.Id);  this.Name = dataList.GetString((int)Index.Name);  this.Amount = dataList.GetDecimal((int)Index.Amount);  this.Comment = dataList.GetString((int)Index.Comment);  this.WaiterId = dataList.GetString((int)Index.WaiterId);  this.WaiterName = dataList.GetString((int)Index.WaiterName);  this.Opend = dataList.GetDateTime((int)Index.Opened);  this.Updated = dataList.GetDateTime((int)Index.Updated);  this.Room = dataList.GetString((int)Index.Room);  this.Guests = dataList.GetUInt((int)Index.Guests);  this.LeftTableId = dataList.GetString((int)Index.LeftTableId);  this.RightTableId = dataList.GetString((int)Index.RightTableId);  }  public string Id { get; set; }  public string Name { get; set; }  public decimal Amount { get; set; }  public string WaiterId { get; set; }  public string WaiterName { get; set; }  public string Comment { get; set; }  public DateTime Opend { get; set; }  public DateTime Updated { get; set; }  public string Room { get; set; }  public uint Guests { get; set; }  public string LeftTableId { get; set; }  public string RightTableId { get; set; }  } |