

```

/// <param name="userDto"></param>
/// <returns>JWT token</returns>
[HttpPost("Authenticate")]
0 references | PABLO DIAZ, 13 days ago | 1 author, 9 changes
public ClsResponse<string> Login(UserDto userDto)
{
    ClsResponse<string> cls = new()
    {
        Error = true,
        Message = "Falló la Autenticacion"
    };
    try
    {
        if (userDto is null || userDto.Email is null)
        {
            return cls;
        }

        List<UserModel> db = DbUsers.ReturnUsersForTesting(_config);

        UserModel DbUser = db.First(x => x.Email == userDto.Email.ToLower());
        if (DbUser is null || DbUser.Password is null || DbUser.Salt is null || userDto.Password is null)
        {
            cls.Message = $"Credenciales inválidas. ";
            return cls;
        }

        //Debemos comparar con la base de datos el password haciendo de nuevo el cifrado con salt de usuario
        string temporal = HelperCryptography.EncriptarPassword(userDto.Password, DbUser.Salt);

        //Comparamos los arrays para comprobar si el cifrado es el mismo
        if (DbUser.Password != temporal)
        {
            return cls;
        }

        var tokenStr = GenerateToken(DbUser);
        cls.Data = null;
        cls.Error = false;
        cls.Message = "Success";
        cls.Token = tokenStr;

        return cls;
    }
    catch (Exception ex)
    {
        string msg = "No se pudo Loguear favor de reintentar más tarde.";
    }

    #if DEBUG
        Console.WriteLine(ex.Message);
    #endif
}

```

No issues found

Entregable2-PD / Authenticate

Save

POST
https://entregable-pd.azurewebsites.net/api/Authentication/Authenticate
Send

Params
Authorization
Headers (9)
Body
Pre-request Script
Tests
Settings

none
form-data
x-www-form-urlencoded
raw
binary
GraphQL
JSON

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```

private string GenerateToken(UserModel administrator)
{
    try
    {
        if (administrator is null || administrator.Name is null || administrator.Email is null || administrator.Type is null || administrator.Role is null)
        {
            throw new ArgumentException("Error generando token");
        }

        var claims = new[]
        {
            new Claim(JwtRegisteredClaimNames.Jti, Guid.NewGuid().ToString()),
            new Claim(JwtRegisteredClaimNames.Iat, DateTime.UtcNow.ToString()),
            new Claim(ClaimTypes.Name, administrator.Name),
            new Claim(ClaimTypes.Email, administrator.Email),
            new Claim("Type", administrator.Type),
            new Claim("Role", administrator.Role)
        };
        var jwt = _config.GetSection("JWT").Get<Jwt>();
        if (jwt is null || jwt.Key is null)
        {
            throw new ArgumentException("Error generando token");
        }
        var key = new SymmetricSecurityKey(Encoding.UTF8.GetBytes(jwt.Key));
        SigningCredentials creds = new(key, SecurityAlgorithms.HmacSha256);

        var securityToken = new JwtSecurityToken(
            jwt.Issuer,
            jwt.Audience,
            claims: claims,
            expires: DateTime.Now.AddMinutes(Convert.ToDouble(_config.GetSection("JWT:expirationToken").Value)),
            signingCredentials: creds);

        return new JwtSecurityTokenHandler().WriteToken(securityToken);
    }
    catch (Exception ex)
    {
        if (DEBUG)
        {
            Console.WriteLine(ex.Message);
        }
        if (ndif)
        {
            _logger.LogError(ex.Message, ex);
            return string.Empty;
        }
        throw;
    }
}

```

```

//Get Key from config to encrypt and decrypt
var encrypt = _config.GetSection("Encrypt").Get<EncriptAes>();
if (encrypt.Key is null || encrypt.Iv is null)
{
    return response;
}
byte[] key = Encoding.UTF8.GetBytes(encrypt.Key);
byte[] iv = Encoding.UTF8.GetBytes(encrypt.Iv);

if (string.IsNullOrEmpty(card.CardNumber))
{
    return response;
}

//Save A
A = card.CardNumber;
//Mask credit Card Number (A)
string NM = CardNumberTo.MaskCreditCard(A);
//Encode credit card number with SHA256 (A) And Save Like AC
AC = HelperCryptography.EncodeSHA256Hash(A);
//Encrypt credit card number with AES256 using hard key (A) And Save Like AE
AE = HelperCryptography.EncryptStringToBytes_Aes(A, key, iv);
//Decrypt credit card number with AES256 using hard key (AE) and Save Like B
B = HelperCryptography.DecryptStringToBytes_Aes(AE, key, iv);
//Encode credit card number with SHA256 (B) and save Like BC
BC = HelperCryptography.EncodeSHA256Hash(B);
//Compare Hashes AC with BC
if (AC != BC)
{
    return response;
}
response.ErrorMessage = string.Empty;
response.Data = $"Masked:{NM} AC:{AC} BC:{BC}";
return response;
}
catch (Exception ex)
{
    string msg = "No se pudo Loguear favor de reintentar más tarde.";
    if DEBUG
    Console.WriteLine(ex.Message);
    endif
    _logger.LogWarning(msg);
    response.ErrorMessage = msg;
    return response;
}
}

```

```

public ClsResponse<dynamic> SetCard(CardDto card)
{
    ClsResponse<dynamic> response = new()
    {
        Error = true,
        ErrorMessage = "Can not set credit card"
    };

    if (HttpContext.User.Identity is not ClaimsIdentity identity)
    {
        return response;
    }
    // Log the user's claims
    foreach (var claim in identity.Claims)
    {
        Console.WriteLine($"Claim Type: {claim.Type}, Claim Value: {claim.Value}");
    }

    try
    {
        var rToken = Jwt.ValidateToken(identity, _config);
        var user = rToken;

        if (user == null)
        {
            response.ErrorMessage = "Unauthenticated";
            return response;
        }

        if (user.Role is null)
        {
            return response;
        }
        if (user.Role.ToUpper() != "ADMIN")
        {
            response.ErrorMessage = "Unauthorized";
            return response;
        }
        if (!string.IsNullOrEmpty(card.Comment))
        {
            card.Comment = SanitizeString.RemoveHtml(card.Comment);
        }
        response.Error = false;
    }
}

```

Entregable2-PD / SetCard

Save

POST https://entregable-pd.azurewebsites.net/api/Card/Set

Params Authorization Headers (10) Body Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```

1  {
2    "cardNumber": "180062247434230"
3  }

```

Body Cookies (2) Headers (8) Test Results

Status: 200 OK Time: 169 ms Size: 556 B Save

Pretty Raw Preview Visualize JSON

```

1  {
2    "error": false,
3    "message": null,
4    "errorMessage": "",
5    "data": "Masked:XXXXXXXXXX4230 AC:12e97544afb41b74b6250fb0daff1ddeb66389ce745bb4db979c349dcf43f804 BC:12e97544afb41b74b6250fb0daff1ddeb66389ce745bb4db979c349dcf43f804",
6    "errorCode": null,
7    "value": null,
8    "token": null
9  }

```