**Project Title**

Public Finance Management Portal for Local Self-Government Units in Bosnia and Herzegovina

**Description**

Public Financial Management (PFM) is essential for local governments in Bosnia and Herzegovina and beyond. The USAID Local Governance Assistance Activity (LGAA) has successfully partnered with local government units (LGUs), civil society organizations, the private sector, and other relevant stakeholders to enhance PFM at the local level. In 2023, USAID LGAA launched the Public Financial Management portal, “Provjerite budžet vaše lokalne uprave,” to promote citizen participation, monitoring, and reporting on PFM within LGUs. This portal offers a unique digital presentation of LGU budgets, including information on revenues, expenditures, and annual budget execution, all presented in a user-friendly format.

**Getting Started**

This project is a web application built on the .NET 7.0 framework. It includes:

* Azure-based file storage
* Identity and email integrations
* Interactive UI with Telerik for ASP.NET Core

**Dependencies**

* OS: Windows 10 or higher
* .NET SDK: .NET 7.0 SDK
* Database: Microsoft SQL Server 2016+
* IDE: Visual Studio 2022+
* Web Server: IIS / Kestrel

**Core Packages**

* Microsoft.EntityFrameworkCore.\* – ORM
* Telerik.UI.for.AspNet.Core.Trial – UI components
* Azure.Storage.Blobs – Cloud file storage
* ClosedXML – Excel export
* MailKit, NETCore.MailKit – Email delivery
* FluentValidation.AspNetCore – Validation
* Swashbuckle.AspNetCore – Swagger API docs
* HtmlSanitizer – Safe HTML rendering
* Microsoft.Identity.\* – Azure AD authentication

**Installing**

**Step 1: Clone the repository**

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| --- |
| git clone https://yourrepo.url/PublicFinanceManagementPortal.git  cd PublicFinanceManagementPortal |

**Step 2: Configuration**

Create and fill the appsettings.Development.json file:

|  |
| --- |
| {  "Logging": {  "LogLevel": {  "Default": "Information",  "Microsoft.AspNetCore": "Warning"  }  },  "AllowedHosts": "\*",  "ConnectionStrings": {  "DevConnection": "Server=your-server;Initial Catalog=your-db;User ID=user;Password=pass;",  "AzureBlobStorage": "your-azure-blob-connection-string"  },  "EncryptionKey": "YourSecretKey",  "FileContainerName": "files",  "AppIdentitySettings": {  "ApplicationStartDate": "1.1.2023",  "TestSite": "Y",  "AppLink": "https://localhost:5001",  "DevEmails": "email1@domain.com;email2@domain.com",  "Utils": "GUID",  "DefaultLanguageId": "1"  },  "MailSettings": {  "EmailId": "do-not-reply@example.com",  "Name": "do-not-reply",  "Password": "your-email-password",  "Host": "smtp.office365.com",  "Port": 587,  "UseSSL": true  },  "AzureAd": {  "Instance": "https://login.microsoftonline.com/",  "Domain": "yourdomain.onmicrosoft.com",  "TenantId": "your-tenant-id",  "ClientId": "your-client-id",  "ClientSecret": "your-client-secret",  "Authority": "https://login.microsoftonline.com/your-tenant-id",  "CallbackPath": "/signin-oidc"  }  } |

**Step 3: Restore NuGet packages**

|  |
| --- |
| dotnet restore |

**Step 4: Apply Entity Framework migrations**

|  |
| --- |
| dotnet ef database update |

**Executing program**

To run the application locally:

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| --- |
| dotnet run |

Visit: https://localhost:5001

**Help**

**Common Issues**

* **SQL Connection Error**: Verify your connection string, firewall settings, and SQL credentials.
* **Azure Storage Access Denied**: Ensure correct storage key and container permissions.
* **Login Failure**: Check Azure AD ClientId, Secret, and TenantId in configuration.

**Debugging Tips**

* Use dotnet watch run during development.
* Check logs in logs/ folder or console output.

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**Version History**

**0.2**

* Various bug fixes and performance improvements
* Updated NuGet packages
* Enhanced reporting capabilities

**0.1**

* Initial release
* Implemented core features: budget visualization, file upload, login, admin panel

**License**

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**Acknowledgments**

* **USAID LGAA** – Project lead and funding
* **Finit Consulting doo** – Technical implementation