Guía para el Tratamiento del Paciente con Diabetes:
UNA CAJA DE HERRAMIENTAS

DWT SYSTEM:
Installation Manual
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DWT System

Software Requirements

• Visual Studio 2015
Visual Studio 2015 will let you make any change in the system and will allow you to publish the applications.

• Azure for Visual Studio 2015
Azure for Visual 2015 will allow you to publish to Windows Azure platform or generate the necessary packages to make the implementation from Windows Azure portal.

• Xamarin for Visual Studio 2015
Xamarin for Visual Studio 2015 will let you make any change in the Android APP and will allow you to generate the .apk files used for the installation on smartphones or tablets with Android operating system.

• InstallShield Limited Edition for Visual Studio
InstallShield Limited Edition for Visual Studio will let you make the .exe used for the for the Windows Service installation.

Configuration parameters

• Web Application
  • The configuration parameters are found in the Web.config file inside DWT project contained in Deliverables\Source Code\DWT. The function of each parameter is described below and they are divided in two sections:
    § Section connectionStrings:
    • DefaultConnection: It is used to setup the database connection and it must contain the following values: server name, database name, username and the password.
    • StorageConnectionString: It is used to setup the Windows Azure storage connection and it must contain the following values: storage account name and storage account key.
    § Section appSettings:
    • Email: It is used to setup the email account from which password recovery notifications will be sent and it must contain a valid email address as a value.
    • Password: It is used to setup the password of above email.
    • SMTP: It is used to setup the SMTP of above email.
    • Port: It is used to setup the port of above email.
    • Azure: It is used to set up if the application will be implemented on Windows Azure or Local, it must have true or false as a value where true means that will be implemented on Windows Azure.
- **Hours**: It is used to set up the time difference when the application is implemented on Windows Azure due to Windows Azure use UTC time zone. This parameter must contain an integer as a value.
- **urlAzureStorage**: It is used to setup the URL of Windows Storage account and it must contain a valid URL.
- **URL**: It is used to setup the domain name plus /content/Files/ which is the folder where files are saved when Azure parameter is false. this parameter must contain a valid URL.
- **containerName**: It is used to set up the container name in the storage account where the files will be saved.
- **GCM.ApiKey**: It is used to setup the Server API Key (see the Generate Google Key section)

### Web Service

- The configuration parameters are found in the **Web.config** file inside **DWTWS** project contained in Deliverables \Source Code \DWT. The function of each parameter is described below and they are divided in two sections:
  - **Section connectionStrings**:
    - **DefaultConnection**: It is used to setup the database connection and it must contain the following values: server name, database name, username and the password.
  - **Section appSettings**:
    - **Email**: It is used to setup the email account from which password recovery notifications will be sent and it must contain a valid email address as a value.
    - **Password**: It is used to setup the password of above email.
    - **SMTP**: It is used to setup the SMTP of above email.
    - **Port**: It is used to setup the port of above email.
    - **Azure**: It is used to set up if the application will be implemented on Windows Azure or Local, it must have true or false as a value where true means that will be implemented on Windows Azure.
    - **Hours**: It is used to set up the time difference when the application is implemented on Windows Azure due to Windows Azure use UTC time zone. This parameter must contain an integer as a value.
    - **GCM.ApiKey**: It is used to setup the Server API Key (see the Generate Google Key section).

### Windows Service

- The configuration parameters are found in the **App.config** file inside **DWTWINS** project contained in Deliverables \Source Code \DWT. The function of each parameter is described below:
- **ServicePollInterval**: It is used to setup the time interval for the asynchronous service to check and send pending notifications. This parameter must contain an integer value in milliseconds.
- **GCM.ApiKey**: It is used to setup the Server API Key (see the Generate Google Key section).

**Worker Role**
- The configuration parameters are found in the *App.config* file inside WorkerRole DWTWINS project contained in Deliverables\Source Code\DWT. The function of each parameter is described below:
  - **ServicePollInterval**: It is used to setup the time interval for the asynchronous service to check and send pending notifications. This parameter must contain an integer value in milliseconds.
  - **GCM.ApiKey**: It is used to setup the Server API Key (see the Generate Google Key section).

**Android application**
- The configuration parameters are found in Deliverables\Source Code\Android APP folder or Deliverables\Source Code\Android APP EntraHealth folder in AuxiliarTasks\Constants.cs file and DWTMobile.cs file inside DWTMobile project. The function of each parameter is described below:
  - **WS Url**: It is used to setup the Web service URL.
  - **gcm.api_key**: It is used to setup the Server API Key (see the Generate Google Key section).
  - **gcm.project_id**: It is used to setup the Sender ID (see the Generate Google Key section).
Installation Guide for Local Deployment

• **Web Application**
  1. Sign in to a Windows Server 2008 R2 or later.
  2. Open IIS (Internet Information Services) management console.
  3. Add new web site or application with .Net Framework 4.5.
  4. Generate publish files (see the Generate publish files section).
  5. Copy files generated in the prior step to the new web site or application folder.
  6. For the SSL certificate, select the server in the IIS management console.
  7. Click on certificates option and then select import option where we select our SSL certificate to end the installation.

• **Web Service**
  1. Sign in to a Windows Server 2008 R2 or later.
  2. Open IIS (Internet Information Services) management console.
  3. Add new web site or application with .Net Framework 4.5.
  4. Generate publish files (see the Generate publish files section).
  5. Copy files generated in the prior step to the new web site or application folder.
  6. For the SSL certificate, select the server in the IIS management console.
  7. Click on certificates option and then select import option where we select our SSL certificate to end the installation.

• **Windows Service**
  1. Sign in to a Windows Server 2008 R2 or later.
  2. Generate setup.exe file (see the Generate setup.exe section).
  4. Click on Next.
  5. Click on Install option and accept to install.
  6. Click on Close option to complete the installation.

• **Database**
  1. Sign in to a Windows Server 2008 R2 or later.
  2. Open SQL Management Studio 2008 R2 or later.
  3. Connect to the instance where database will be installed.
  4. Right click on databases folder and then select restore option.
  5. Select DWTDB.bak contained in Deliverables\Database\Backup folder.
  6. Click on OK option to end the installation.

• **Android application**
  1. Generate .apk (see the Generate .apk section).
  2. Copy .apk file to a Smartphone or Tablet with Android 4.0 or posterior.
  4. Enable installation for unknown sources.
  5. Click on Install option.
6. Click on Open option to end the installation.

Installation Guide for Windows Azure Deployment (Recommended)

- **Web Application**
  1. Open DWT.sln contained in Deliverables\Source Code\DWT folder.
  2. Right click on the project name.Azure.
  3. Select Publish option.
  4. Sign in with a Windows live account with an active Windows Azure Subscription and click on Next.
  5. In the settings section select or create new Cloud service, select environment and click on Publish to end the process.

- **Web Service**
  1. Open DWT.sln contained in Deliverables\Source Code\DWT folder.
  2. Right click on the project name.Azure.
  3. Select Publish option.
  4. Sign in with a Windows live account with an active Windows Azure Subscription and click on Next.
  5. In the settings section select or create new Cloud service, select environment and click on Publish to end the process.

- **Worker Role**
  - This project is published along with the web application.

- **Database**
  1. Sign in to https://portal.azure.com/
  2. Select storage accounts option.
  3. Select or create a new storage accounts.
  4. Select or create new container.
  5. Upload DWTDB.bacpac file contained in Deliverables\Database\Azure folder to the container.
  6. Select SQL Servers option.
  7. Select import database option.
  8. Select DWTDB.bacpac file previously uploaded to the storage account.
  9. Configure size, location and password to end the database installation.

- **Android application**
  1. Generate .apk (see the Generate .apk section)
  2. Copy .apk file to a Smartphone or Tablet with Android 4.0 or posterior.
  4. Enable installation for unknown sources.
  5. Click on Install option.
6. Click on Open option to end the installation.

Installation Guide for Windows Azure Deployment (Optional)

- **Web Application**
  1. Sign in to a Windows Server 2008 R2 or later.
  2. Open IIS (Internet Information Services) management console.
  3. Add new web site or application with .Net Framework 4.5.
  4. Generate publish files (see the Generate publish files section).
  5. Copy files generated in the prior step to the new web site or application folder.
  6. For the SSL certificate, select the server in the IIS management console.
  7. Click on certificates option and then select import option where we select our SSL certificate to end the installation.

- **Web Service**
  1. Sign in to a Windows Server 2008 R2 or later.
  2. Open IIS (Internet Information Services) management console.
  3. Add new web site or application with .Net Framework 4.5.
  4. Generate publish files (see the Generate publish files section).
  5. Copy files generated in the prior step to the new web site or application folder.
  6. For the SSL certificate, select the server in the IIS management console.
  7. Click on certificates option and then select import option where we select our SSL certificate to end the installation.

- **Windows Service**
  1. Sign in to a Windows Server 2008 R2 or later.
  2. Generate setup.exe file (see the Generate setup.exe section).
  4. Click on Next.
  5. Click on Install option and accept to install.
  6. Click on close option to end the installation.

- **Database**
  1. Sign in to https://portal.azure.com/
  2. Select storage accounts option.
  3. Select or create a new storage accounts.
  4. Select or create new container.
  5. Upload DWTDB.bacpac file contained in Deliverables\Database\Azure folder to the container.
  6. Select SQL Servers option.
  7. Select import database option.
  8. Select DWTDB.bacpac file previously uploaded to the storage account.
  9. Configure size, location and password to end the database installation.
• Android application

1. Generate .apk (see the Generate .apk section).
2. Copy .apk file to a Smartphone or Tablet with Android 4.0 or posterior.
4. Enable installation for unknown sources.
5. Click on Install option.
6. Click on Open option to end the installation.

Generate Google Key

1. Go to the following address:
   https://developers.google.com/mobile/add?platform=android
2. Enter app name and Android package name (com.android.dwtmobile) and then click on the following option “Continue to Choose and configure services”
3. In the Choose and configure services section click on Cloud Messaging and then click on ENABLE GOOGLE CLOUD MESSAGING.
4. The actions above will generate Server API Key and Sender ID.

Note: To perform the above steps you need a Google account.

Generate Publish files

1. Open DWT.sln contained in Deliverables\Source Code\DWT folder.
2. Right click on the project name.
3. Select publish option.
4. Select custom option and enter profile name.
5. Right click on Next.
6. Select file system option in publish method on the connection section and Publish option to end the process.

Generate setup.exe

1. Open DWT.sln contained in Deliverables\Source Code\DWT folder.
2. Right click on the Setup project.
3. Select Build option to generate the .exe File to end the process.

Note: The files will be generated DWT\Setup\Express\DVD-5\DiskImages\DISK1 Folder.
Generate .apk

1. Open DWTMobile.sln contained in Deliverables\Source Code\Android APP or DWTMobile Entra Health.sln contained in Deliverables\Source Code\ Android APP EntraHealth folder.
2. Right click on the project name.
3. Select Build option.
4. Right click on the project name again.
5. Select Export Android Package(apk.) Option to end the process.

**Note:** The files will be generated DWTMobile\DWTMobile\DWTMobile\bin\Release Folder.