**Deployment Procedures**

**Prepare Build file of the project**

1. Solution Explorer 🡪 TSIApiWebApp (right button click ) 🡪 publish

A screenshot of a computer

Description automatically generated

Figure: 1

1. **Creating profile: Pick a publish target** 🡪 Folder 🡪 choose a folder to save the build file.

A screenshot of a social media post

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Figure: 2

1. Go to “**Advanced..”** link in **Pick a publish target** window

* Configuration 🡪 Release.
* Target Framework 🡪 netcoreapp3.1
* Deployment Mode 🡪Self Contained
* Target Runtime 🡪 [OS config] (ex. win-x64 for windows 64bit)
* Databases 🡪 check for connection string. If it’s okay, then proceed. Otherwise update string.

A screenshot of a cell phone

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Figure: 3

1. Press save and Create Profile.
2. To publish app, click on “**Publish”** button**.**

A screenshot of a social media post

Description automatically generated

Figure: 5

1. Go to the chosen folder to get the build files to deploy in IIS server.

**Deployment in IIS server:**

1. Configure IIS:

Follow the link (screenshots are available in link) to get details to configure IIS-

<https://helpdeskgeek.com/windows-10/install-and-setup-a-website-in-iis-on-windows-10/>

1. Download and Install the **.NET Core** Hosting Bundle:

Follow the link for details-

<https://docs.microsoft.com/en-us/aspnet/core/tutorials/publish-to-iis?view=aspnetcore-3.1&tabs=visual-studio>

1. Download and install SQL server and MSSM:

( <https://www.microsoft.com/en-au/sql-server/sql-server-downloads> )

Download the free express version.

1. Copy build file in **C:\inetpub\wwwroot\** [New Folder (ex. Apps)] \ [New Folder (ex. TSIApiWebApp)]
2. Give write, read permission to IIS user for folder **C:\inetpub\wwwroot.**

A screenshot of a social media post

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Fig: 5

1. **Deploying web app**
2. Start menu 🡪 IIS Manager 🡪 Sites
3. Right click on Sites 🡪Add Website
4. Provide site name, Physical path of the build (ex. C:\inetpub\wwwroot\Apps\TSIApiWebApp), Change the port number if 80 is already used (ex. 5000). Press **Ok**.
5. Go to Application pools 🡪 right click on newly added site 🡪 Basic Settings 🡪 select .NET CLR version to No managed Code 🡪 O**k.**
6. After saving new site, Right Click on the new site and click on Manage website 🡪 Start.
7. To browse the site, Right Click on the new site and click on Manage website 🡪 Browse.
8. Follow this video if needed ( <https://www.youtube.com/watch?v=iLUZdQBzn54> )