Build and Installation Guide

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# Install of Tools, Libraries, and Dependencies

1. Download and Install Asp.Net Core 8.0 from this link: <https://dotnet.microsoft.com/en-us/download>
2. Download and Install SQL server of Developer version: <https://www.microsoft.com/en-us/sql-server/sql-server-downloads>
3. Download and Install Microsoft SQL Server Management Studio 20.2 from this link: <https://learn.microsoft.com/en-us/sql/ssms/download-sql-server-management-studio-ssms?view=sql-server-ver16#download-ssms>
4. Download the Project repository from branch Phase3

git clone -b Phase5 git@code.umd.edu:sthokala/ENPM680Fall2024Project-sthokala.git

1. Open the MsSQL studio and connect to localhost database server instance by specifying as shown in the below figure, Server name is a dot (.):
2. Double click on the **PhotoWebApp.sln** file.
3. It will open the project PhotoWebApp.
4. On the Visual Studio select Tools > NuGet Package Manager > Package Manager console.
5. Run the Command: **remove-migrations or delete the migration folder to avoid migration errors.**
6. Run the command: Add-Migration InitialMigrationCreateTablesAndDB
7. Run the command: Update-Database
8. It will create the database **PhotoWebAppPhase5** in the local database instance based on the ApplicationDbContext code.

## Few points before running the project

### Google App Passwords

The web app uses Token based on authentication, for that it requires a SMTP credentials. I have used google account app credentials.

Step to get the Google account APP passwords:

1. Login into your Google account.
2. Navigate to the account page: https://myaccount.google.com/
3. In the search bar, search for App passwords or App.
4. Select App Passwords.
5. Give the name to the App password and click create.
6. Copy the app password and store it safely.
7. Now navigate to ~\PhotoWebApp\Controllers\AuthController.cs.
8. Paste the app password and your Email on line 99.
9. smtpClient.Credentials = new NetworkCredential("userYourEmail@gmail.com", "YourpassowrdHere");
10. On line 106 paste the Email.
11. var message = new MailMessage("userYourEmail@gmail.com", email);
12. Copy and paste the email and app password again on the File: ~\PhotoWebApp\Controllers\UsersController.cs
13. On line 181 and 190.

### Token While Debugging

To view the Token in the AuthController.cs, Add {token} on line 65 it will show the token value after submitting the email.

ViewBag.Message = $"Token sent to your Email! {token}";

### Migration Errors

If you face any migration error, use the below steps:

1. run **remove-migrations or delete the migration folder.**
2. Run the command: Add-Migration InitialMigrationCreateTablesAndDB
3. Run the command: Update-Database

It will solve the migration errors.