# OCCCIO\_PrizeDrawSystem

Started by Niagara College, OCCCIO Prize Draw system allows the hosting college to go paperless when it comes to the prize draw abilities. It has passed down to Durham College for further development for OCCCIO 2020.

**Recreating the environment:**

-ISS, SQL Server Express, Visual Studio 2017

Installing IIS (Internet Information Services):

1. Open “Turn windows feature on or off”
2. Check the box of the Internet Information Services

Installing SQL Server Express

1. Download the installation package
2. Select “Basic” for the installation type
3. Note the connection string
4. Install SSMS (SQL server Management Studio)
5. Launch SSMS
6. Run the query(DbCreation.sql), located on the Database folder

\* *Ensure 'COMMIT' is uncommented when running so SQL Server will actually commit the changes described.*

\* *Recommended to create a new database instead of running it on Master database*

Installing Visual Studio

1. Download the installation package
2. Package downloaded: .NET desktop development, ASP.NET and web development, Data storage and processing.
3. Run the program

\**You may have to download some Dependencies, by default it should have been auto downloaded to adjust with the project Dependencies.*

Under Visual Studio 2017, there are two files you must edit to ensure the DB connections are set up properly.

PrizeDraw > appsettings.json

and

PrizeDrawTool > appsettings.json

For Development, ensure your ConnectionString are setup to your system. the basic style are:

Server=[server];Database=[databaseName];User ID=[userID];Password=[password];

Next, you need to generate a password for the Admin or staff user, this is done using the PrizeDrawTool C# program.

**Problem encountered:**

*Not having permission on SQL server*

Solution: During the installation, the current user will have administration privilege. Make sure to access the server using the same user.

*“The current .NET SDK does not support targeting .NET core 2.2, Either target .NET core 2.1 or lower, or user a version of the .NET SDK that supports .NET 2.2.”*

Solution: install 2.1.5xx & 2.2.1xx version of SDK

Link: <https://developercommunity.visualstudio.com/content/problem/470616/the-current-net-sdk-does-not-support-targeting-net-5.html>

**Changing Logo:**

Insert the new logo to PrizeDraw 🡪 wwwroot 🡪 img

Modify the html image tag source on PrizeDraw 🡪 Views 🡪 Shared 🡪 \_HeaderPartial.cshtml

\*About line 8 or so

**Changing Website Colour Style:**

The website CSS located on PrizeDraw 🡪 wwwroot 🡪 css 🡪 “site.css”

\*Background CSS located on line 190~

\*Note, the creator also uses bootstrap CSS. To overwrite the style use “!important” keyword.

There are 3 projects in the solution:

DataLayer focuses towards database query and object.

Database query are located on DataLayer 🡪 Providers

All the queries are using Eager Loading.

Database Accessor located on DataLayer 🡪 DataAccess

PrizeDraw focuses on the web portion, and event.

The project is based on ASP.NET Razor.

Useful Link: <https://www.learnrazorpages.com/>

PrizeDrawTool focuses to generate password.

PrizeDrawTool was written with command line arguments abilities, you may compile it to run on a command line or run it directly within Visual Studios.

To change the arguments and run within Visual Studios

1. Select the PrizeDrawTool Project

2. Secondary click it to access the properties window

3. Locate the Debug tab.

4. Alter the Applications Arguments to "p [path]".

Example: p C:/PrizeDraw

Will generate password on prizedraw folder located on c drive

The program will create a csv file at [path] with the password for the users in the system missing a password.

There are two ways of creating a user, one is logged in as an admin and manage user

Or use csv file as an input and run PrizeDrawTool

**Import from csv to Database**

Must be in following format

Attendee #,First Name,Last Name,Email,Mobile Phone,Company,Job Title

1,John,Doe,johndoe@dcmail.ca,6476542484,Durham,Teacher

2,Jane,Doe,janedoe@dcmail.ca,6476542486,Durham,Teacher

* It doesn’t allow for overwriting existing data

Known Issue:

The Prize draw app will only start drawing ballots if the number of ballots is greater than to number of prizes available. This means if you have 2 attendees as your test input data, the max number of prizes per entry is 1. If you have 3 attendees, the max is 2.

The 'Draw Prize' function in the display screens, do not use the Generate Winner button in the Manager Prize screen unless it is intended for testing. On the Display screen, when the 'Winner' title is available, press Enter to have the system draw a winner from the pool.

Throw an Exception because id is 0, since it doesn’t pass any value

Step to recreate:

Log In as an admin, Manage 🡪 Manage Prizes 🡪 Details 🡪 Edit

Possible solution:

* Remove The edit button from prize detail page
* Save the id using session

Unable to edit data from detail window, since it doesn't pass the key value to the function. It will throw System.InvalidOperationException: 'Sequence contains no elements'.

**Barcode Generator:**

Credit: <https://www.inflowinventory.com/blog/code-39-font-archon-free-barcode/>

Barcode is generated using code 39 font archon, which needed to be installed prior

Install Font in the folder

Archon code 39

* Create mail merge template in Microsoft word for the name badge template all is located on userGenerator folder

Font Size:

1. 24 seems to be the readable
2. 48 also good (Recommended)
3. 68 is difficult to scan

MailMerge, is using FreeSpire.Doc mail merge functionality

the MailMerge.Execute also using IEnumerable meaning that we could pass it a list of attendees

It will search for the letterformatting.docx and perform mail merge on that document

Note:

After careful consideration, this year Durham College will only be using 3 templates (Attendee, Staff, Vendor) due to security concern, three kind of name badge will be easily recognizable for security rather than ~40.

To Generate Prize Winner

Click enter

Original author decided to incorporate JavaScript in this program, located on PrizeDraw🡪Views🡪Display🡪Details.cshtml

Step:

1. Register Vendor, by login as admin 🡪 manage vendors 🡪 add vendor 🡪fill in all necessary information 🡪 click save.
2. Register user for vendor, by login as admin 🡪 manage users 🡪 add user 🡪 fill in all necessary information, select the vendor from dropdown for the Linked Vendor and select “Vendor” for roles 🡪click save.
3. Register Prize, by login as admin 🡪 Manage Prizes 🡪 Add prize 🡪 fill in al necessary information 🡪 click save.
4. Register Attendees, by login as admin.
   1. Load form csv file
   2. Manually add in the manage tab
5. To draw winner, make sure that there is enough ballots for drawing. If so click on display tab and click on draw prize (preferably from the most top prize) press enter to generate, for redrawing winner click on the x next to the name. To move on to the next prize click on Next Prize button.
6. Check in for the staff and admin is to set the isCheckIn field for attendees to be true, check in for the vendor is to insert attendee to the Scan table linked with their vendor id.