Donation File Project – Documentation

The project aims to develop an application that allows a user to keep track of weekly donations.

**Planed Project Features**

**Classes**

* Donations
  + Uses a Dictionary for getting new donations from the user and returns the Dictionary to send to the DonationsQuries class. It is not using inheritance since it is only used for gathering information whenever there is a new donation.
  + Has a Try-Catch around the donation Information for making sure the strings are added to the dictionary
  + Uses a public sub new for getting information for donations.
* Donors
  + Uses a Dictionary for getting new donors from the user and returns the Dictionary to send to the DonorsQuries class. It is not using inheritance since it is only used for gathering information.
  + Has a Try-Catch around the donation Information for making sure the strings are added to the dictionary
* Queries class
  + The queries class is Abstract
* Donors Queries
  + Donors Inherit from Queries
  + Has a validation method to make sure that the user is entering a string in the name field
  + It has multiple try-catch statements to make sure there is no errors when running the SQL queries.
* Donation Queries
  + Donors Inherit from Queries
  + There are multiple parts to the class. It uses the validation class to make sure that the user is at least providing a valid value greater than 0.
  + It has multiple try-catch statements to make sure there is no errors when running the SQL queries.
* Validation
  + Has a function to check if the user is entering a string
  + The validation number function overloaded for both integers and decimals

**Try Catch**

Try-Catch statements are used in each of the classes and in the code in for the aspx pages code.

**Database Connection**

The Quire classes handle the connection to the database since webforms does not let you drag and drop the data source. It had been done manually and this took a bit of research to figure out how to do so.

* The Add quire adds data to the table and accepts a dictionary. It uses override because each database uses different names for its columns.
* The GetData is overridable because it needs to get information from the database, and it connects to a different database.
* The updateRow is unique because it uses different variables queries classes because it updates different information.
* The getNames function is unique to the donorsQuries class because it gets a Dictionary of names to assign to drop down along with the ID for each name.
* The DeleteDonation Function is unique to the donationsQuries class. It allows users to delete a row of data.