

## Week 3 Report

This week we spent most of the time on the database. We are currently using MySQL to eventually store the photos and videos. I spent most of my time learning how to connect to a database using C# as opposed to php. This mainly includes learning how to use MySQL.data as well as what I needed to install to get them to work.

We also spent time familiarizing ourselves with the raspberry pi OS and how to communicate with the hardware.

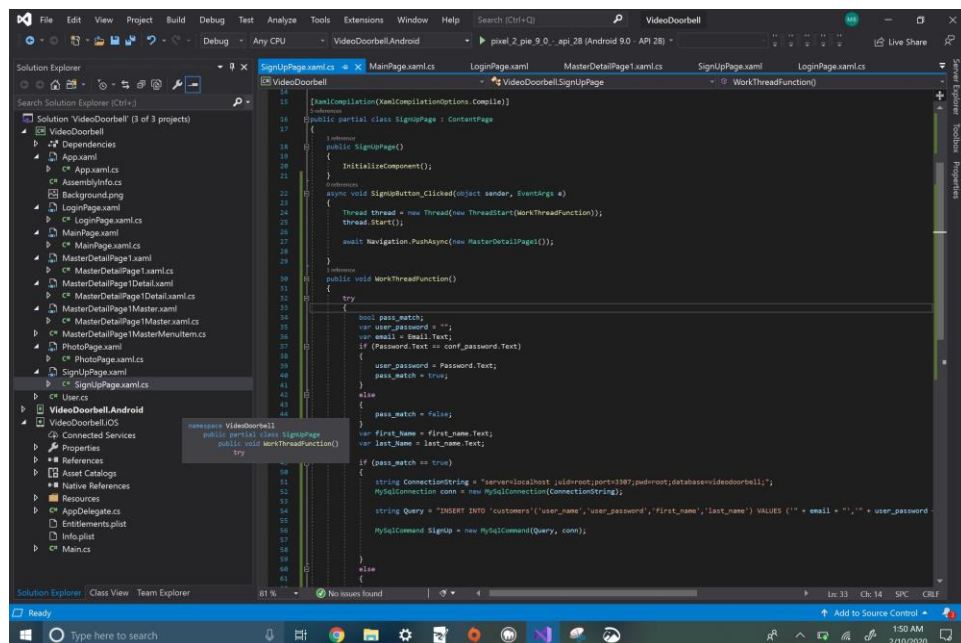


Figure 1: Current C# code for Sign Up Page

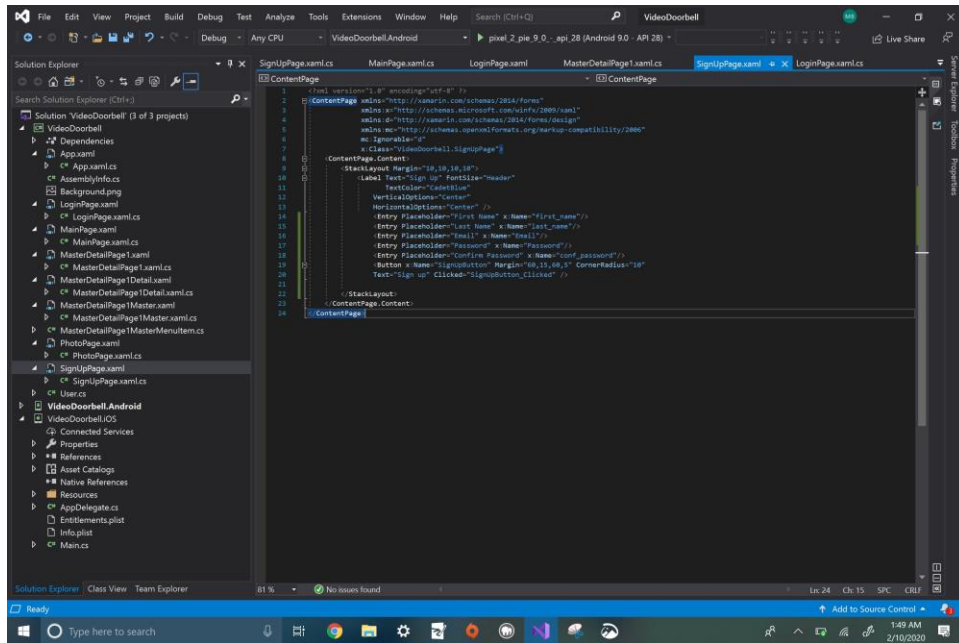


Figure 2: Current XAML code for Sign Up Page

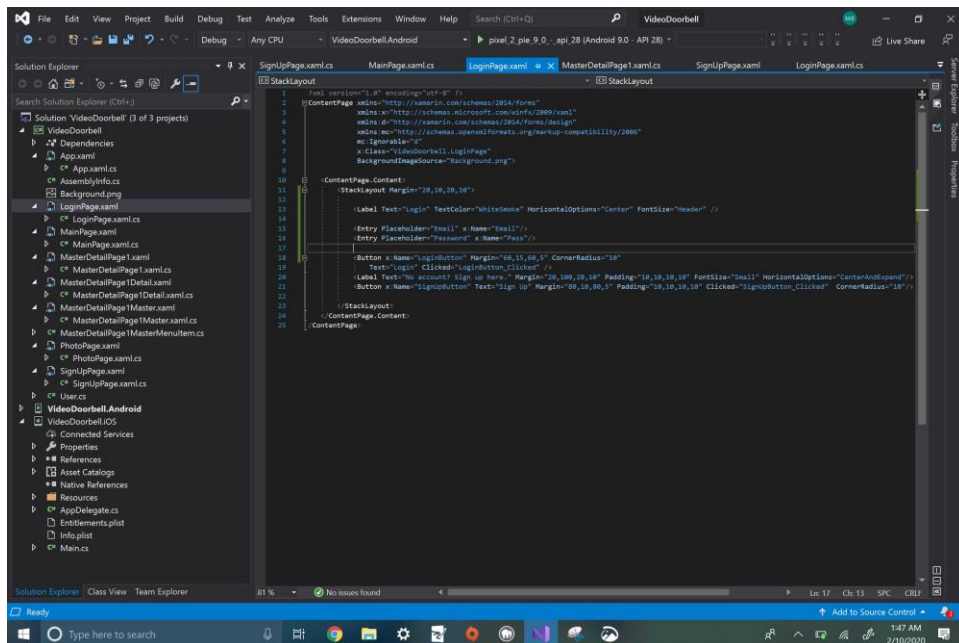


Figure 3: Current XAML code for Login Page

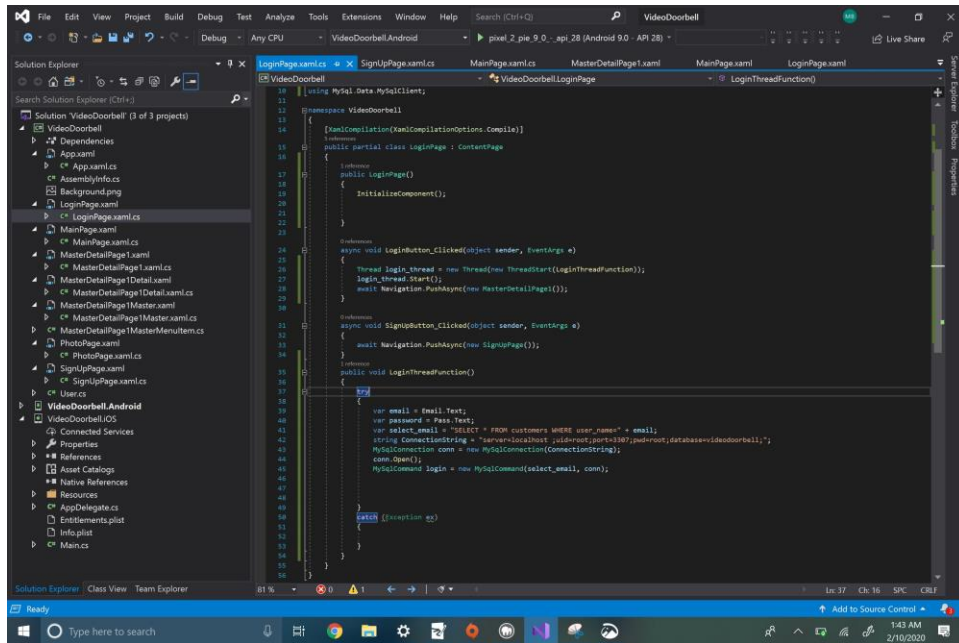


Figure 4: Current C# code for Login Page

### Problems we faced

- The biggest problem we faced was learning how to connect our database with our Xamarin project. Learning this C# library has taken a lot of the time we've had.
- Also, I ran into a problem where I got an error message saying that frames were getting skipped because there was too much happening in the thread. I was able to fix this by creating a new thread to do the "background work" in.

### Looking forward

In this next week we plan to get the hardware programmed so that when the button is pressed other pieces of the hardware will respond. We will also finish working on the database and get the app

uploading to it. Once we've done both, we can move on to connecting the raspberry pi to the database and work on getting it to upload photos.