**CHIGOZIE AHAM**

**ANDREW MCGUIRE**

**ACHIEVEMENTS**

* Successful fix to debouncing
* Testing of PHP scripts to login users

**GOZIE’S PROGRESS**

* Research on connecting hostgator database with python
* PHP scripting on database level for saving messages/Morse codes
* Creation of users in database

**ANDREW’S PROGRESS**

* PCB circuit to address debouncing using fritzing software
* Research on debouncing

**TO BE ACHIEVED**

* Connecting to the database on the raspberry pi
* PCB circuit
* Connecting to the database on the Android app
* Database design to save Morse codes and its translation

Hello Mr.Tian,  
  
Here is our report for the Morse Pi Project.  
  
link to git : <https://github.com/goziethelegion/MorsePi>  
  
Progress

We have successfully tested the PHP scripts on the database level for logging in an existing user. We manually created only two users for practical communication. There are two of PHP scripts dedicated to signing in each user (Gozie and Andrew).

So far Gozie and I have made progress on the Morse Pi project. Together, Gozie and I created a prototype for our debounce circuit that we will be using to fix an issue that the hardware has with data input. Separately I have been working in fritzing in, so that we can make the final debounce circuit that will work with our project and I have also been helping Gozie plan out the exact set up for the database. Gozie has been working on the database and how the python will interact with the database from the raspberry pi.

We have followed database designs to allow for communication between two users similar to Facebook’s.

Problems

One of the problems we've been experience in our project is our debounce issue.

<https://www.embedded.com/electronics-blogs/break-points/4024956/Solving-Switch-Bounce-Problems>

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| [https://ci6.googleusercontent.com/proxy/7Ox2tbeifJ1Kc-hurWRL34qDxWYNqlu8NGu8K5p-Sn4twF51TOL5_F37y_D8dT2Y8FOQh668uQdSATi1eP8SlIFr8liZvWE7knnP5HLkCBL4oFKm1P-w=s0-d-e1-ft#https://m.eet.com/images/edn/images/icons/contentitem-default.png](https://www.embedded.com/electronics-blogs/break-points/4024956/Solving-Switch-Bounce-Problems) | [Solving Switch Bounce Problems | Embedded](https://www.embedded.com/electronics-blogs/break-points/4024956/Solving-Switch-Bounce-Problems)  [www.embedded.com](http://www.embedded.com/)  No chaste unblemished logic signals these; a scope will show the contacts torturously bouncing before settling into a stable state. |

Above is a link that we have used to help us create a circuit that will allow us to mitigate this issue and continue working on integration of the system.

The other problem we have been having is connecting our raspberry pi to our database. Our database is hosted by a website called hostgator and it is a SQL database. Our issue here is our lack of knowledge of how to connect to it via python, Gozie connected to this database via his app for Software project however with python the connection does not seem to be working. Gozie has been looking into this issue so that we can communicate to the database.

Here is a link we used to get a library on the raspberry pi to help connect to the Db, unfortunately it is still not connecting.

<https://thepythonguru.com/installing-mysqldb/>

Here is a links that were used to help troubleshoot

<https://www.youtube.com/watch?v=OlwPEHgg_bM>  
<https://dev/mysql.com/doc/mysql-windows-excerpt/5.7/en/resetting-permissions-windows.html>  
<https://stackoverflow.com/questions/21944936/error-1045-28000-access-denied-for-user-rootlocalhost-using-password-y>

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