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| CITé DES JEUNES A.-M.-Sormany |
| **VOTE CDJ** |
| **Technical documentation** |
| English only.  CONFIDENTIAL |
| Manuel Dionne |
| 1/10/2016 |

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| A technical documentation detailing the inner workings for VOTECDJ software. This document has been created for maintenance and use of the system. |

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**Preface**

For a non-technical explanation in French, please refer to the user’s manual.

**Introduction**

This project is meant to enable the students of the Cité des Jeunes to quick and easy voting for the student government. In this document, there will be a full technical documentation of the inner workings of the system. Included in this document are: explanations, code samples and diagrams to explain key concepts of the system. Expect this text to be fairly technical and the reader should be proficient in C#, PHP, HTML and SQL databases before making changes to the system. **This document is for the student government only, distribution of these papers and user’s manual is unauthorized.**

**Design (Server)**

**Users**

To set up the MySQL users that the systems require you need to enable remote access on port 3306. Then edit the *my.cnf* or *my.ini* file and comment out:

**bind-address = 127.0.0.1**

Once you did that you can now create two users to be controlled by the system called *sec\_user* and *sec\_remote.*

**CREATE USER 'sec\_remote'@'%' IDENTIFIED BY '6EUO1BE6ZRb';**

**CREATE USER 'sec\_user'@'%' IDENTIFIED BY 'AiwnMpowmKE';**

Then give the users permissions using these queries:

**GRANT SELECT, INSERT, UPDATE, DELETE ON `Vote`.\* TO 'sec\_remote'@'%';**

**GRANT SELECT, INSERT, UPDATE ON `Vote`.\* TO 'sec\_user'@'localhost';**

Then add the test user into the database using:

INSERT INTO `Vote`.`members` VALUES(

1,

'test\_user',

'00807432eae173f652f2064bdca1b61b290b52d40e429a7d295d76a71084aa96c0233b82f1feac45529e0726559645acaed6f3ae58a286b9f075916ebf66cacc',

'f9aab579fc1b41ed0c44fe4ecdbfcdb4cb99b9023abb241a6db833288f4eea3c02f76e0d35204a8695077dcf81932aa59006423976224be0390395bae152d4ef',

0,

9

);

**Passwords**

The username and passwords for root access to the database are as follows **(Important note: do not use this account for anything other than maintenance and to log into myPHPadmin** [**votemysql.citedesjeunes.ca**](http://votemysql.citedesjeunes.ca)**)**:

**USERNAME:** marqueri\_vote

**PASSWORD:** BB&7y?6t%5r$4ePP

The username and passwords used by the PHP login script are as follows:

**USERNAME:** sec\_user

**PASSWORD:** AiwnMpowmKE

For the C# admin panel the username and password are:

**USERNAME:** sec\_remote

**PASSWORD:** 6EUO1BE6ZRb

The configuration of the database should not allow remote access to *sec\_user* or *root*. In the final config of the system remote access is not required, therefore making it unsafe.

**FTP:** vote.citedesjeunes.ca

**USERNAME:** [manuel@citedesjeunes.ca](mailto:manuel@citedesjeunes.ca)

**PASSWORD:** ?54RtyHgfVbn

**MySQL Database Layout**

In the case of a file system corruption or accidental deletion of important tables, this section aims to help the user understand the layout of the database itself. Below is the hierarchy of the database and the type of columns.

**Vote:** database name

**1-candidates:** table name

**|-id:** INT NOT NULL AUTO\_INCREMENT PRIMARY KEY

**|-postID:** INT NOT NULL

**|-name:** CHAR(128) NOT NULL

**|-grade:** INT NOT NULL

**|**

**2-login\_attempts:** table name

**|-user\_id:** INT(11) NOT NULL

**|-time:** VARCHAR(30) NOT NULL

**|**

**3-members:** table name

**|-id:** INT NOT NULL AUTO\_INCREMENT PRIMARY KEY

**|-username:** VARCHAR(30) NOT NULL

**|-password:** CHAR(128) NOT NULL

**|-salt:** CHAR(128) NOT NULL

**|-hasvoted:** INT NOT NULL **<-- Boolean int (1 or 0)**

**|-grade:** INT NOT NULL

**|**

**4-post:** table name

**|-id:** INT NOT NULL AUTO\_INCREMENT PRIMARY KEY

**|-name:** CHAR(128) NOT NULL

**|-grade:** INT NOT NULL

**|**

**5-vars:** table name

**|-voteStarted:** INT NOT NULL **<-- Boolean int (1 or 0)**

**|-voteStartTime:** DATETIME NOT NULL

**|-voteEndTime:** DATETIME NOT NULL

**|**

**6-voteHistory:** table name

**|-id:** INT NOT NULL AUTO\_INCREMENT PRIMARY KEY

**|-voteTime:** DATETIME NOT NULL

**|-candidateID:** INT NOT NULL

**|-postID:** INT NOT NULL

**Web server**

The web server used is *Apache v2.2.22* and *PHP v5.4.41.* Whether it’s Linux or Windows it doesn’t matter. The setup was built on a Raspberry Pi B+ but it was designed for multiple operating systems. To install the system, copy the files of the *www* folder (*https://github.com/AideTechBot/VoteCDJ/tree/master/www*) to the web server’s index. You can test if the server is working by logging in using this test user:

**USERNAME:** test\_user

**PASSWORD:** 6ZaxN2Vzm9NUJT2y

**Design (Client)**

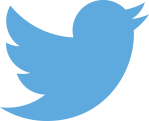
The client is pretty straight forward, no config required, only copying the files over FTP using the passwords on page 5. The client is made of some PHP forms sending post requests over encrypted sessions so it’s not much to worry about if you don’t touch the code. To access the web client, tell the voters to go to:

[**vote.citedesjeunes.ca**](http://vote.citedesjeunes.ca/)

**Conclusion**

I would like to thank Mr. Denis Dionne for giving me the idea and encouragement for this project. For any questions or concerns about the system you can contact me at:



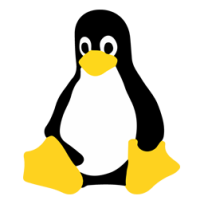


**@aidetechbot**

[**manimo41@hotmail.com**](mailto:manimo41@hotmail.com)

**Cell: +1(506)740-4034**

**Made possible by:**

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