LAN-Based Election System Pseudo code

Begin Algo

While Election is Ongoing Do

Register Voter

If Voter Exists in Database Then

Login Voter

If User Hasn’t Voted Yet Then

Proceed to USC Election

Proceed to CSC Election

Logout Voter

Else

Logout Voter

Prompt Error Message

End If

Else

Prompt Error Message

End If

End While

End Algo

The algorithm presents the overall process of the Web-based UESC election system. The process starts with registration. If the voters are found in the database, they can proceed using the software. Voters must input their student numbers. If voters haven’t voted yet, they could proceed in selecting candidates in the University Student and College Student Councils. If any interruption happens from any point while using the software, the student may still login and continue from where he/she left off. The students could not vote more than once.

Web-Based Election System Pseudo code

Begin Algo

While Election is Ongoing Then

Register Voter

If Voter Exists in Database Then

Login Voter

If Not Finished Voting for USC

If Interrupted

Logout Voter

Go Back to Login

Else

Proceed to USC Election

End If

End If

If Not Finished Voting for CSC

If Interrupted

Logout Voter

Go Back to Login

Else

Proceed to CSC Election

End If

End If

Logout Voter

Else

Prompt Error Message

End If

Else

Prompt Error Message

End While

End Algo

Web-Based Election Program Pseudo code (More Detailed)

Begin Algo

While Election is Ongoing Then

Register Voter

If Voter Exists in Database Then

Login Voter

If User Hasn’t Voted Yet Then

Display Candidates for USC

Submit Votes

If Process Interrupted Then

Prompt Error Message

Logout Voter

Go Back to Login

Else

Get Voter’s College and Year Level from the Database

Display Corresponding CSC and Year Level Representative

Submit Votes

Logout Voter

End If

Else If User Hasn’t Voted for CSC Yet Then

Get Voter’s College and Year Level from the Database

Display Corresponding CSC and Year Level Representative

Submit Votes

Logout Voter

Else

Logout Voter

Prompt Error Message

End If

Else

Prompt Error Message

End If

Else

Prompt Error Message

End While

End Algo

References:

D. Gosselin, PHP Programming with MySQL. 20 Channel Center Street Boston, MA 02210 USA: Course Technology, Cengage Learning, 2011.

H. Williams, Web Database Applications with PHP and MySQL, 2nd Ed. 1005 Gravenstein Highway North, Sebastopol, CA 95472: O’Reilly Media, Inc., 2004.

L. Ullman, PHP for the Web, 4th Ed. 1249 Eighth Street Berkeley, CA 94710: Peachpit Press, 2011.

L. Ullman, PHP 5 Advanced. 1249 Eighth Street Berkeley, CA 94710: Peachpit Press, 2011.