

Assessment Cover Sheet

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ASSESSMENT DETAILS

Unit title	Technical Software Development	Tutorial /Lab Group	Lab 2 Group 1	Office use only
Unit code	SWE 20004	Due date	21/11/2021	
Name of lecturer/tutor	Chai Pui Ching			
Assignment title	Assignment Task 2			Faculty or school date stamp

STUDENT(S) DETAILS

	Student Name(s)	Student ID Number(s)
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(2)	Chin Kai Lun	101221815
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(4)	Ooi Yik Quan	101230222
(5)		
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(1)	Sze XiJie	(4)	Ooi Yik Quan
(2)	Chin Kai Lun	(5)	
(3)	Chen Jun Yao	(6)	

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SWE20004

Assignment - Task 1 Contribution Sheet

Lab Group: [Group 1 / Group 2]

Team Leader: Sze XiJie

Student Name	Student ID	Tasks – Work undertaken to complete the group assignment	% contribution
Sze XiJie	101222928	Option 3 SQLite 3	25
Chin Kai Lun	101221815	Option 2	25
Chen Jun Yao	101222889	Option 4	25
Ooi Yik Quan	101230222	Option 1	25

Signatures for approval

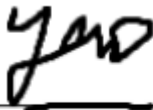
Each group member must sign this sheet in acknowledgement that he/she has read and accepted the contribution stated above.



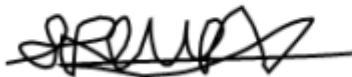
Name: Sze XiJie



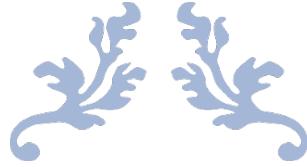
Name: Chin Kai Lun



Name: Chen Jun Yao



Name: Ooi Yik Quan



ASSIGNMENT TASK 2

Team Name: Amadeus
Group: Lab 2 Group 1
Project Title: Election-Voter

- Group Member:
1. Sze XiJie 101222928 (Group Leader)
 2. Chin Kai Lun 101221815
 3. Chen Jun Yao 101222889
 4. Ooi Yik Quan 101230222



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1 Report

The Gantt chart for Assignment 2 can be found in Figure 1, where it shows the required duration to complete each activity. These activities are categorised into five parts, and they include Option 1, Option 2, Option 3, Option 4 and Sqlite 3.

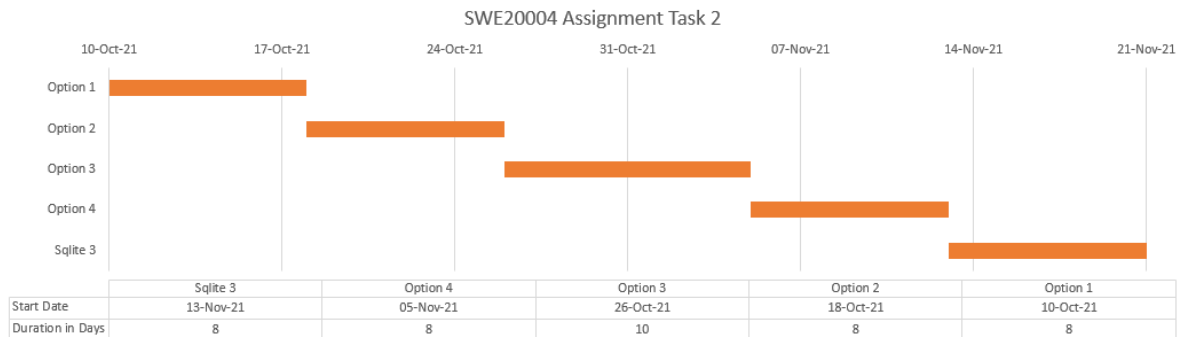


Figure 1: Gantt chart for Assignment 2

2 Program Explanation

The program will consist of 4 options which will be explained below. Each option will be done by each member of the team as shown in the table below.

Task	Member
Option 1	Ooi Yik Quan
Option 2	Chin Kai Lun
Option 3	Sze XiJie
Option 4	Chen Jun Yao
Sqlite 3	Sze XiJie

Table 1: Team contribution table

2.1 Option 1

For option 1, it allows the user to choose between 3 options. For the first option, it is to view all the candidates in all divisions, for the second option, it is to view all the candidates in a specific division, and for the last option it is to view all candidates based on the party.

2.2 Option 2

Option 2 allows the user to be registered as a voter. Next, the program will validate the user input to ensure that it is accurate. Besides, the program also helps to verify if a user has met the age requirement, such as only allowed to vote if the user is at least 19 years old or older. After that, the program will extract the first and last names of the user to form a voter ID for the user.

2.3 Option 3

This option allows the voters to voter their desired candidate that is in the same division as the voter. It will display the candidates' information: Candidate ID, Party and Name that is in the same division as the voter and the voter will voter the candidates by entering the candidates ID. The voters can only vote once and before voting they will need to enter their voter ID to be check if they have already voted.

2.4 Option 4

This option allows the user to see the voting summary, which shows the candidates' information plus the percentage of votes that they got, and the highest and lowest number of votes. The user can either choose to view the voting summary for all divisions, or a specific division. If the user wants to view a specific division, they must type in the division number.

2.5 Sqlite 3

SQLite 3 is a databased which will be used to store the voter's information such as their Name, Voters ID, Age, Status and Division and to read the voter's information. SQLite 3 will be substituting the text file in storing and reading data.

3 Project Testing

3.1 Main Menu

3.1.1 Valid Input

Choices	Expected Result
1	Go To View Candidate Menu
2	Go To Register Voter Menu
3	Go To Vote Menu
4	Go To View Voting Results and Summary Menu
5	Exit the program

Table 2: Valid Input for Main Menu In Voter Program

3.1.2 Invalid Input

Choices	Expected Result
Abc (any character)	Error Text show up and prompt user to enter valid input
123 (any integer that is not 1 to 5)	Error Text show up and prompt user to enter valid input
! @ # (Special Characters)	Error Text show up and prompt user to enter valid input

Table 3: Invalid Input for Main Menu In Voter Program

3.2 View Candidate Menu

3.2.1 Valid Input

Choices	Expected Result
1	View All Candidates in All Division
2	Go To View All Candidates in Specific Division
3	Go To View All Candidates Based on Party
4	Return to Main Menu

Table 4: Valid Input for View Candidate Menu

3.2.2 Invalid Input

Inputs	Expected Result
123 (any integer that is not 1 to 5)	Error Text show up and prompt user to enter valid input
! @ # (Special Characters)	Error Text show up and prompt user to enter valid input
White space	Error Text show up and prompt user to enter valid input

Table 5: Invalid Input for View Candidate Menu

3.3 View Candidate in Specific Division Menu

3.3.1 Valid Input

Choices	Expected Result
1	View All Candidates in Division 1
2	View All Candidates in Division 2
3	View All Candidates in Division 3
4	View All Candidates in Division 4

Table 6: Valid Input for View Candidate in Specific Division Menu

3.3.2 Invalid Input

Inputs	Expected Result
123 (any integer that is not 1 to 5)	Error Text show up and prompt user to enter valid input
! @ # (Special Characters)	Error Text show up and prompt user to enter valid input
White space	Error Text show up and prompt user to enter valid input

Table 7: Invalid Input for View Candidate in Specific Division Menu

3.4 View Candidate Based on Party Menu

3.4.1 Valid Input

Choices	Expected Result
1	View All Candidates in Party Einstein
2	View All Candidates in Party Tesla
3	View All Candidates in Party Mozart

Table 8: Valid Input for View Candidate Based on Party Menu

3.4.2 Invalid Input

Inputs	Expected Result
123 (any integer that is not 1 to 5)	Error Text show up and prompt user to enter valid input

! @ # (Special Characters)	Error Text show up and prompt user to enter valid input
White space	Error Text show up and prompt user to enter valid input

Table 9: Invalid Input for View Candidate Based on Party Menu

3.5 Register Voter Menu

3.5.1 Valid Input

Inputs		Expected Result
Enter Your First Name:	Max	Successfully Registered as Voter and will return to Main Menu
Enter Your Last Name:	Low	
Enter Your Desired Division:	4	
Enter Your Age:	21	
Enter Your First Name:	Max	To Young To Register as Voter and will Return to Main Menu
Enter Your Last Name:	Low	
Enter Your Desired Division:	4	
Enter Your Age:	10	

Table 10: Valid Input for Register Voter Menu

3.5.2 Invalid Input

Inputs		Expected Result
Enter Your First Name:	! @ # (Special Characters) 123 (Integers)	Error text will appear and prompt user to retry
Enter Your Last Name:	! @ # (Special Characters) 123 (Integers)	
Enter Your Desired Division:	! @ # (Special Characters) abc (characters) 123 (Integers that is not 1 to 5)	
Enter Your Age:	! @ # (Special Characters) abc (characters) 123 (Integers that is not 1 to 5)	

Table 11: Invalid Input for Register Voter Menu

3.6 Vote Menu

3.6.1 Valid Input

Inputs		Expected Result
Please Enter Your Voter ID:	MaxLow	Show Candidates Info in the same division as the voter
Please Enter Your Candidate ID:	EIN03	Voted for EIN03 and will return to Main Menu Update Voter Status from "N" to "Y" Update Candidates Vote Count

Table 12: Valid Input for Vote Menu

3.6.2 Invalid Input

Inputs	Expected Result
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Please Enter Your Voter ID:	Any Input That Is Not The Same As Voter ID	Error Text Saying Voter ID Does Not Exist and Return to Main Menu
Please Enter Your Candidate ID:	Any Input That Is Not The Same As Candidate ID	Error Text Saying Candidate ID Does Not Exist and Return to Main Menu
Please Enter Your Voter ID:	MaxLow (If Voter Already Voted Before)	Show Error Text Saying Voter Already Voted and Return to Main Menu

Table 13: Invalid Input for Vote Menu

3.7 View Voting Results and Summary Menu

3.7.1 Valid Input

Choices	Expected Result
1	View All Results from All Division
2	Go To View Results in Specific Division Menu
3	Return to Main Menu

Table 14: Valid Input for View Voting Results and Summary Menu

3.7.2 Invalid Input

Inputs	Expected Result
123 (any integer that is not 1 to 5)	Error Text show up and prompt user to enter valid input
! @ # (Special Characters)	Error Text show up and prompt user to enter valid input
White space	Error Text show up and prompt user to enter valid input

Table 15: Invalid Input for View Voting Results and Summary Menu

3.8 View Voting Results and Summary in Specific Division Menu

3.8.1 Valid Input

Choices	Expected Result
1	View Voting Results in Division 1
2	View Voting Results in Division 2
3	View Voting Results in Division 3
4	View Voting Results in Division 4

Table 16: Valid Input for View Voting Results and Summary in Specific Division Menu

3.8.2 Invalid Input

Inputs	Expected Result
123 (any integer that is not 1 to 5)	Error Text show up and prompt user to enter valid input
! @ # (Special Characters)	Error Text show up and prompt user to enter valid input
White space	Error Text show up and prompt user to enter valid input

Table 17: Invalid Input for View Voting Results and Summary in Specific Division Menu