

IMPLEMENTATION PHASE

4. Implementation

(4.1)Method Of Solution (description):

The method of solution is now up and running, there are several forms including the "login" page, a "main menu" page, a "customer information" form, an "event type" form, an "event information" form, a "service" form, and a "report" form.

There are 4 tables in the solution, all containing different information. They are by the names "customer information" table, "services" table, "event information" table and an "event type" table.

The "customer information", "event information", "event type" and "services" all have similar command buttons, which are "add", "search", "edit", "delete", "save", "cancel", "close" and "home". The buttons do as they say, they can help add, search, edit, delete or save a new customer's information or event or service description. Along with those buttons there are also buttons that say "first", "previous", "next", "last". These buttons can help navigate the user through the first and last records of any table to view the information relating to any particular customer or event requirement.

Whenever a new customer requires the service of XYZ, the company may feed in the unique customer code and the customer's information and demands into the tables. The customer may then be catered to by the employees and any new demands would also be fed into the system along with the services required and the event type and description.

(4.2)List Of all Objectives Achieved :

24. To start computerizing the manual system
25. Keep the new system simple
26. Have a security and password protected system
27. Keep the system user friendly
28. Make it easy to store data
29. It should be easy to add data
30. It should be easy to delete data
31. Editing or replacing of data should be made simple
32. Saving data to a customer's name should not be a time consuming task
33. The system should be well set up and require only a small amount of trained labour to operate.
34. Finding records and files must be made easy
35. The files and records must be stored in an organized manner .
36. An efficient way to add and give total monthly costs
37. The business also wishes to keep records and numbers of previous customers for the convenience of the business in case the same customer wishes to plan a second event in the future.
38. The business also wishes to neatly organize and categorize different kinds of events that it is catering for
39. And finally, the old manual system is to be completely tossed out the window as the newer, better system takes its place!

(4.3)Method of Change – Over :

There are 3 methods of changeover; these are **direct** (where the old system is immediately scrapped out), **parallel** (where the old system is run side by side with the new system) and **phased** (where the new system is introduced by scrapping out tiny portions of the old system).

The recommended changeover for XYZ Company is the direct changeover. At the moment XYZ is a small service providing company that is not big enough for the implementation of the phased changeover to take place and it is certainly not profitable enough yet to experience the parallel change over in which the new and old system are run side by side because this can be relatively much more expensive. Direct changeover is recommended as this is very quick and will produce comparatively faster results.

Training or Re-training of Staff :

At the moment there are 30 employees in the business. Only the top 10 to 15 will now be required as the business is trying to incline itself towards being capital intensive. The half remaining workers will have to be trained in how to use the new system but if the periods spent on training are too lengthy and beginning to get costly then the firm may wish to lay off all the labour force in the business and hire new employees that would already be literate in the field of computers.

These employees may charge a slightly higher salary as they are well trained but there would be no initial training cost, although later if the Company wishes to use a more user friendly and a more highly advanced computerized system it would have to retrain the workers.

A back up of the system is also recommended along with all the information about the previous and present clients of XYZ Company.

TESTING PHASE

5. TESTING PHASE

| Test number | Component | Test data | Expected data | Actual data | Objective met |
|-----------------------------|------------------|-------------------------|---------------------------------------|---------------------------------|---------------|
| 1 | cmdEventType | click on command button | Open the event type form | Opens the event type form | 1,2,4 |
| 2 | cmdCustomerInfo | click on command button | Open the customer info form | Opens the customer info form | 1,2,4 |
| 3 | cmdServices | click on command button | Open the services form | Opens the services form | 1,2,4 |
| 4 | cmdEventPlanning | click on command button | Open the event planning form | Opens the event planning form | 1,2,4 |
| 5 | cmdReports | click on command button | Open the reports form | Opens the report form | 1,2,4 |
| 6 | cmdClose | click on command button | Close the program | Closes the program | 1,2,4 |
| mEvent Type - standard data | | | | | |
| Test number | Component | Test Data | Expected Data | Actual Data | Objective met |
| 1 | cmdAdd | click on command button | Should add the data | Adds the data | 1,2,4,6 |
| 2 | cmdSave | click on command button | Should save the data | Saves the data | 1,2,4,5,9 |
| 3 | cmdEdit | click on command button | Should edit the data | Edits the data | 1,2,4,8 |
| 4 | cmdSearch | click on command button | Should search for existing data | Searches for the data | 1,2,4,11 |
| 5 | cmdDelete | click on command button | Should delete data | Deletes the data | 1,2,4,7 |
| 6 | cmdCancel | click on command button | Should cancel data entry | Cancels data entry | 1,2,4 |
| 7 | cmdClose | click on command button | Should close the form | Closes form | 1,2,4 |
| 8 | cmdHome | click on command button | Should take you back to the main menu | Takes you back to the main menu | 1,2,4 |
| 9 | cmdFirst | click on command button | Should take you to first | Takes you to the first | 1,2,4 |

| | | | | | |
|------------------------------|---------------------|-------------------------|---|----------------------------------|----------------------|
| | | | record | record | |
| 10 | cmdPrevious | click on command button | Should take you to the previous record | Takes you to the previous record | 1,2,4 |
| 11 | cmdNext | click on command button | Should take you to the next record | Takes you to the next record | 1,2,4 |
| 12 | cmdLast | click on command button | Should take you to the last record | Takes you to the last record | 1,2,4 |
| 13 | txtEventCode | 1234 | The information should be accepted | The information is accepted | 1,2,4 |
| 14 | txtEventName | Abc | The information should be accepted | The information is accepted | 1,2,4 |
| 15 | txtEventDescription | Abc | The information should be accepted | The information is accepted | 1,2,4 |
| 16 | txtEventCharges | 1000 | The information should be accepted | The information is accepted | 1,2,4 |
| frmEventType - extreme data | | | | | |
| Test number | Component | Test Data | Expected Data | Actual Data | Objective met |
| 1 | txtEventCode | 1111 | This information should be accepted | This information is accepted | 1,2,4 |
| 2 | txtEventCharges | 10000 | This information should be accepted | This information is accepted | 1,2,4 |
| frmEventType - abnormal data | | | | | |
| Test number | Component | Test Data | Expected Data | Actual Data | Objective met |
| 1 | txtEventCode | abc | This information should not be accepted | The information is not accepted | 1,2,4 |
| 2 | txtEventName | 1111 | This information should not be accepted | The information is not accepted | 1,2,4 |
| 3 | txtEventDescription | 12345 | This information should not be accepted | The information is not accepted | 1,2,4 |
| 4 | txtEventCharges | abc | This information should not be | The information is not accepted | 1,2,4 |

| | | | accepted | | |
|-----------------------------|--------------------------|-------------------------|--|----------------------------------|---------------|
| | | | | | |
| Customer Info Standard data | | | | | |
| Test number | Component | Test Data | Expected Data | Actual Data | Objective met |
| 1 | cmdAdd | click on command button | Should add the data | Adds the data | 1,2,4,6 |
| 2 | cmdSave | click on command button | Should save the data | Saves the data | 1,2,4,5,9 |
| 3 | cmdEdit | click on command button | Should edit the data | Edits the data | 1,2,4,8 |
| 4 | cmdSearch | click on command button | Should search for existing data | Searches for the data | 1,2,4,11 |
| 5 | cmdDelete | click on command button | Should delete data | Deletes the data | 1,2,4,7 |
| 6 | cmdCancel | click on command button | Should cancel data entry | Cancels data entry | 1,2,4 |
| 7 | cmdClose | click on command button | Should close the form | Closes form | 1,2,4 |
| 8 | cmdHome | click on command button | Should take you back to the main menu | Takes you back to the main menu | 1,2,4 |
| 9 | cmdFirst | click on command button | Should take you to first record | Takes you to the first record | 1,2,4 |
| 10 | cmdPrevious | click on command button | Should take you to the previous record | Takes you to the previous record | 1,2,4 |
| 11 | cmdNext | click on command button | Should take you to the next record | Takes you to the next record | 1,2,4 |
| 12 | cmdLast | click on command button | Should take you to the last record | Takes you to the last record | 1,2,4 |
| 13 | txtCustomerCode | 1234 | This information should be accepted | The information is accepted | 1,2,4 |
| 14 | txtCustomerName | abcd | This information should be accepted | The information is accepted | 1,2,4 |
| 15 | txtCustomerAddress | abcd1234 | This information should be accepted | The information is accepted | 1,2,4 |
| 16 | txtCustomerContactNumber | 30012 | This information should be accepted | The information is accepted | 1,2,4 |
| 17 | txtCustomerEmail | abc123 | This information | The information is | 1,2,4 |

| | | | | | |
|----|-----------------------|------------|---|-------------------------------------|-------|
| | | | should be accepted | accepted | |
| 18 | cmbCustomerGender | "clicking" | Should show an option of "male" or "female" | Option of "male" or "female" showed | 1,2,4 |
| 19 | txtCustomerOccupation | abc | This information should be accepted | The informaton is accepted | 1,2,4 |
| 20 | txtCustomerAge | 12 | This information should be accepted | The informaton is accepted | 1,2,4 |

frmCustomerInfo - Extreme Data

| Test number | Component | Test Data | Expected Data | Actual Data | Objective met |
|-------------|--------------------------|-----------|-------------------------------------|----------------------------|---------------|
| 1 | txtCustomerCode | 12345 | This information should be accepted | The informaton is accepted | 1,2,4 |
| 2 | txtCustomerContactNumber | 11234567 | This information should be accepted | The informaton is accepted | 1,2,4 |
| 3 | txtCustomerAge | 28 | This information should be accepted | The informaton is accepted | 1,2,4 |

frmCustomerInfo - Abnormal Data

| Test number | Component | Test Data | Expected Data | Actual Data | Objective met |
|-------------|--------------------------|-----------|---|---------------------------------|---------------|
| 1 | txtCustomerCode | abc | This information should not be accepted | The information is not accepted | 1,2,4 |
| 2 | txtCustomerName | 123 | This information should not be accepted | The information is not accepted | 1,2,4 |
| 3 | txtCustomerContactNumber | abc | This information should not be accepted | The information is not accepted | 1,2,4 |
| 4 | txtCustomerOccupation | 1234 | This information should not be accepted | The information is not accepted | 1,2,4 |
| 5 | txtCustomerAge | abcd | This information should not be | The information is not accepted | 1,2,4 |

| | | | accepted | | |
|---------------------------------|-----------------------|-------------------------|--|----------------------------------|---------------|
| | | | | | |
| miServices Standard Data | | | | | |
| Test number | Component | Test Data | Expected Data | Actual Data | Objective met |
| 1 | cmdAdd | click on command button | Should add the data | Adds the data | 1,2,4,6 |
| 2 | cmdSave | click on command button | Should save the data | Saves the data | 1,2,4,5,9 |
| 3 | cmdEdit | click on command button | Should edit the data | Edits the data | 1,2,4,8 |
| 4 | cmdSearch | click on command button | Should search for existing data | Searches for the data | 1,2,4,11 |
| 5 | cmdDelete | click on command button | Should delete data | Deletes the data | 1,2,4,7 |
| 6 | cmdCancel | click on command button | Should cancel data entry | Cancels data entry | 1,2,4 |
| 7 | cmdClose | click on command button | Should close the form | Closes form | 1,2,4 |
| 8 | cmdHome | click on command button | Should take you back to the main menu | Takes you back to the main menu | 1,2,4 |
| 9 | cmdFirst | click on command button | Should take you to first record | Takes you to the first record | 1,2,4 |
| 10 | cmdPrevious | click on command button | Should take you to the previous record | Takes you to the previous record | 1,2,4 |
| 11 | cmdNext | click on command button | Should take you to the next record | Takes you to the next record | 1,2,4 |
| 12 | cmdLast | click on command button | Should take you to the last record | Takes you to the last record | 1,2,4 |
| 13 | txtServiceCode | 1234 | This information should be accepted | The information is accepted | 1,2,4 |
| 14 | txtServiceName | abc | This information should be accepted | The information is accepted | 1,2,4 |
| 15 | txtServiceDescription | abcd | This information should be accepted | The information is accepted | 1,2,4 |
| 16 | txtServiceCharges | 1000 | This information should be accepted | The information is accepted | 1,2,4 |

| frmServices - Extreme Data | | | | | |
|-------------------------------|-----------------------|-------------------------|---|---------------------------------|---------------|
| Test number | Component | Test Data | Expected Data | Actual Data | Objective met |
| 1 | txtServiceCode | 1111 | This information should be accepted | The informaton is accepted | 1,2,4 |
| 2 | txtServiceCharges | 100000 | This information should be accepted | The informaton is accepted | 1,2,4 |
| frmServices - Abnormal Data | | | | | |
| Test number | Component | Test Data | Expected Data | Actual Data | Objective met |
| 1 | txtServiceCode | abcd | This information should not be accepted | The information is not accepted | 1,2,4 |
| 2 | txtServiceName | 1234 | This information should not be accepted | The information is not accepted | 1,2,4 |
| 3 | txtServiceDescription | 1234 | This information should not be accepted | The information is not accepted | 1,2,4 |
| 4 | txtServiceCharges | abcd | This information should not be accepted | The information is not accepted | 1,2,4 |
| frmEventPlannig Standard Data | | | | | |
| Test number | Component | Test Data | Expected Data | Actual Data | Objective met |
| 1 | cmdAdd | click on command button | Should add the data | Adds the data | 1,2,4,6 |
| 2 | cmdSave | click on command button | Should save the data | Saves the data | 1,2,4,5,9 |
| 3 | cmdCancel | click on command button | Should cancel data entry | Cancels data entry | 1,2,4 |
| 4 | cmdClose | click on command button | Should close the form | Clsoes form | 1,2,4 |
| 5 | cmdHome | click on command button | Should take you back to the main menu | Takes you back to the main menu | 1,2,4 |
| 6 | cmdAddService | click on command button | Should add the service | Adds the service | 1,2,4 |
| 7 | cmdCancelService | click on command | Should cancel | Cancels the | 1,2,4 |

| | | | | | |
|----------------------------------|--------------------------|-------------------------|-------------------------------------|--------------------------------|----------------------|
| | | button | the service | service | |
| 8 | cmbEventCode | "clicking" | Should show event code options | Shows event code options | 1,2,4 |
| 9 | cmbCustomerCode | "clicking" | Should show customer code options | Shows customer code options | 1,2,4 |
| imLogin - Standard Data | | | | | |
| Test number | Component | Test Data | Expected Data | Actual Data | Objective met |
| 1 | cmdOk | click on command button | Should accept data if it matches | Accepts the data if it matches | 1,2,4 |
| 2 | cmdCancel | click on command button | Should cancel data entry | Cancels data entry | 1,2,4 |
| 3 | txtUserName | abc123 | Should accept the data | Accepts the data | 1,2,4 |
| 4 | txtPassword | abc123 | Should accept the data | Accepts the data | 1,2,4 |
| imReports - Standard Data | | | | | |
| Test number | Component | Test Data | Expected Data | Actual Data | Objective met |
| 1 | cmdDisplayCustomerInfo | Click on command button | Should display customer information | Displays customer info | 1,2,4 |
| 2 | cmdDisplayEventType | Click on command button | Should display event type | Displays event type | 1,2,4 |
| 3 | cmdDisplayPreviousEvents | Click on command button | Should display previous events | Displays previous events | 1,2,4 |
| 4 | cmdDisplayCurrentEvents | Click on command button | Should display current events | Displays current events | 1,2,4 |
| 5 | cmdDisplayAllServices | Click on command button | Should Display all services | Displays all services | 1,2,4 |