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# 1. Analysis

## 1.1 The problem: identification and background

The problem I have identified is to do with long term storage of electronic test data, displaying this data and cross referencing this data

## 1.2 Description of the current system

The current system is usually a spread sheet, this is because it has in built graphing functions. The users would manually enter the data into the correct place

### 1.2.1 Problems with current system

The first issue with the current system is that the spread sheet quickly become cluttered as all the data is often displayed. As more data is input the issue continues to get worse

The second issue is that the graphs are often difficult to produce and time consuming. As the user must select all the data points

## 1.3 Objectives

My Objectives are:

* Store Test equipment data and standard data in a data base
* Allow users to add data to a data base
* Create graphs of data
* Automatically calculate parameters (Standard Deviation, Deviance, Drift, etc)

## 1.4 Data Modelling

## 1.4.1 Analysis Entity Relationship Diagram // Object Diagrams // Storyboard [delete as appropriate]

# 2 Design (12 marks)

## 2.1 Hierarchy Chart

## 2.2 Normalised Entity Relationship Diagram.

### 2.2.1 Entity Description in standard notation

### 2.2.2 Design Data Dictionary

For each table in your database describe as shown below:

Table XXX

|  |  |  |
| --- | --- | --- |
| **Field Name** | **Data Type** | **Description** |
|  |  |  |
|  |  |  |
|  |  |  |

Table YYY

|  |  |  |
| --- | --- | --- |
| **Field Name** | **Data Type** | **Description** |
|  |  |  |
|  |  |  |
|  |  |  |

## 2.3. Form and algorithm Design

### 2.3.1 Form1

#### 2.3.1.1 Form Screen Shot

#### 2.3.1.2 Structure Chart

#### 2.3.1.3 Class Diagram

#### 2.3.1.4 Pseudo Code

#### 2.3.1.5 Validation

### 2.3.2 Form2

#### 2.3.2.1 Form Screen Shot

#### 2.3.2.2 Structure Chart

#### 2.3.2.3 Class Diagram

#### 2.3.2.4 Pseudo Code

#### 2.3.2.5 Validation

### 2.3.1 Form3

#### 2.3.3.1 Form Screen Shot

#### 2.3.3.2 Structure Chart

#### 2.3.3.3 CLass Diagram

#### 2.3.3.4 Pseudo Code

#### 2.3.3.5 Validation

## 2.4 Report Design

### 2.4.1 Report 1

#### 2.4.1.1 Screen shot

#### 2.4.1.2 SQL and or Pseudo Code

### 2.4.2 Report 2

#### 2.4.2.1 Screen shot

#### 2.4.2.2 SQL and or Pseudo Code

# 3 Testing (8 marks)

## 3.1 Test Plan

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No.** | **Area tested** | **Test data** | **Description purpose** | **Expected outcome** | **Output reference** |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

## 3.2 Test Results

Screen shots or link to YouTube

# 4 Evaluation (4 marks)

## 4.1 Objectives comparison

## 4.2 Improvements

## 4.3 Analysis of 3rd party feedback

# 5 Technical Solution (42 Marks)