**Planning**

**(Planning for the Spreadsheet System)**

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The Spreadsheet System "workbook" consists of 6 sheets:

1. Menu.
2. Student search.
3. Cyber Security (Level1).
4. Cyber Security (Level2).
5. Cyber Security (Level3).
6. Analysis sheet.

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**Menu**

**Main points:**

* The main purpose of creating a "Menu" sheet is to make it easier to navigate between sheets.
* The "Menu" must be easy to use and simple.
* Different colors will be used to decorate the menu.

**Initial design:**

Spreadsheet System

The function used: Macros

Student search

Cyber Security (Level 3)

Cyber Security (Level 1)

Cyber Security (Level 2)

Analysis sheet

Graphs

**Student search**

**Main points:**

* The tutor can type in the student’s first name to retrieve relevant information.
* General information and results for students will be available on this sheet.
* An automated warning message will appear if the student has an exam mark of less than 25.

**Initial design:**

Data type: Text

The tutor can input student name here to bring up relevant information

D.O.B

ID Number

Gender

Last Name

Schor

F

5940211603

First Name

Andera

The function used: IFERROR

The exams grades will be colored with:

Green for “Distinction”

Yellow for “Merit”

Orange for “Pass”

Red for “No Grade”

Percentage

Grade

Mark

Mark

Grade

Percentage

Percentage

Grade

Mark

Modular Exams

Third Exam

Fourth Exam

Second Exam

First Exam

07/11/2002

Data type: Text

Data type: Text 

Data type: Number

Data type: Date

Data type: Text

Mark

Grade

Percentage

The function used: IF

38

Merit

76%

52%

Pass

26

15

Pass

30%

20%

Pass

10

Data type: Number

Data type: Percentage

Data type: Number

91

Overall Mark

Mock Exams

Menu

Next

Back

This student is at risk

No Risk

80

Overall Mark

70%

Merit

30

20%

No Grade

9

72%

Merit

32

32%

Pass

16

Mark

Grade

Percentage

Mark

Grade

Percentage

Mark

Grade

Percentage

Mark

Grade

Percentage

First Exam

Second Exam

Third Exam

Fourth Exam

If there is no exam mark of less than 25

If there is any exam mark of less than 25

The spreadsheet system can be easily navigated with the navigation buttons included on each sheet.

**Cyber Security (Level X) x3**

**Main points:**

* This sheet contains all students’ data, including exam results.

**Initial design:**

07/11/2002

5940211603

Schor

Name

Andera

D.O.B

ID Number

Last Name

First Name

Coldwell

2854374615

21/03/2001

Starr

Data type: Number

Total Mark

x

130

Modular Exams

First Exam

Second Exam

Third Exam

Fourth Exam

Mark

Grade

Percentage

Mark

Grade

Percentage

Mark

Grade

Percentage

Mark

Grade

Percentage

9

No Grade

18%

31

Distinction

62%

40

Distinction

80%

50

Distinction

100%

17

19

22

25

3

7

5

3

52

16

7

8

2

12

11

6

10

4

13

15

5

10

5

8

**7**

14

5

14

3

5

0

No Grade

Pass

Merit

Distinction

Modular Exams

4th

3rd

1st

2nd

4th

3rd

2nd

Mock Exams

1st

9

Lowest Mark

Average Mark

Highest Mark

50

32.5

Level 1

30

Students Number

50

Distinction

100%

25

Pass

50%

40

Distinction

80%

29

Pass

58%

100%

Distinction

50

62%

Merit

31

80%

Distinction

40

100%

Distinction

50

Percentage

Grade

Mark

Percentage

Grade

Mark

Percentage

Grade

Mark

Percentage

Grade

Mark

Fourth Exam

Third Exam

Second Exam

First Exam

Mock Exams

100%

144

12%

No Grade

6

96%

Distinction

48

80%

Distinction

40

Distinction

50

The function used: IF

The function used: COUNTIF

Students Grades

The function used: COUNTA, AVERAGE, MAX and MIN

The tutor can sort students’ data using the sort buttons.

11

Sort Z → A

Sort A → Z

Back

Next

Menu

**Analysis sheet**

Main points:

* Pivot tables will be used to show all exam marks.
* Slicers will also be used to control on-screen data.
* This sheet will contain all the courses data.

Initial design:

50

Level 1

15

30

Lowest Mark

Highest Mark

Average Mark

Students Number

Sort by Grade

5

Slicer

Slicer

Slicer

Slicer

Slicer

Slicer

Slicer

Slicer

Student Grades

2nd

1st

3rd

4th

2nd

1st

3rd

4th

Mock Exams

Modular Exams

Distinction

No Grade

Merit

###

27

4

19

25

6

10

5

###

8

17

21

15

4

4

8

7

15

5

24

22

11

4

###

Pass

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Student Name | 1st Modular Exam (Mark) | 2nd Modular Exam (Mark) | 3rd Modular Exam (Mark) | 4th Modular Exam (Mark) | Highest Mark (Modular) | Lowest Mark (Modular) | Total Mark (Modular) | 1st Mock Exam (Mark) | 2nd Mock Exam (Mark) | 3rd Mock Exam (Mark) | 4th Mock Exam (Mark) | Highest Mark (Mock) | Lowest Mark (Mock) | Total Mark (Mock) |
| Andera | 12 | 14 | 40 | 50 | 50 | 12 | 116 | 5 | 10 | 15 | 30 | 30 | 5 | 60 |
| Starr | 5 | 10 | 15 | 30 | 30 | 5 | 60 | 12 | 14 | 40 | 50 | 50 | 12 | 116 |

###

7

18/

23

12

15

5

4

The spreadsheet system can be easily navigated with the navigation buttons included on each sheet.

Menu

Back

Next

**Graphs**

Main points:

* Visual representations of the data will be included on this sheet.
* Each course will have a set of graphs to represent student data.
* Each course will have the same set of designs below.

Initial design:

Back

Next

Menu

A chart will be used to show how many students have achieved: D, M, P, and NG

The total number of marks for the modular exams.