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@1)

MIKES BIKES		<input checked="" type="checkbox"/>
Stock number	<input type="text"/>	legibility - Serif font
Quantity	<input type="text"/>	consistency - fonts • Buttons
	<input type="button" value="Enter"/>	

2)

	Input	Processes	Output
	Stocknumber	Identify stock item. [Binary search]	Updated file
	Quantity	Calculate difference to quantity. Make quantity changes	Inventory file.

(iii) BEGINS Update with Transaction file & Inventory file

INITIALISE

index as integer = 0

count as integer = 0

Found as boolean = false

END INITIALISATION

WHILE (Transaction.Stock_Number[index] <> 999)

 Found = false

 WHILE (count < 999)

 IF (Transaction.Stock_Number[index] =

 Inventory.Stock_Number[count]) THEN

 Inventory.Quantity[count] = Inventory.Quantity[count]

 + Transaction.Stock_Quantity[index]

 Found = true

 END IF

 count = count + 1

END WHILE



Centre Number: Student Number:

IF (found = false)

Error message: Stock not found!

END IF

index = index + 1

END WHILE

index = 0

WHILE (index < 999)

IF (Inventory.Quantity[index] < 3)

Warning: Low Stock!

END IF

index = index + 1

END WHILE

END

N.B There has been an assumption that no more than 999999 entries exist in both files.

b) ~~Analyse~~ A gantt chart ~~as~~ is ^{created} used during the problem definition and planning/design stages. It ensures that the software solution is implemented in an appropriate time frame. It outlines tasks are completed before which people or teams are responsible other tasks can be completed. For example, when building a submarine, it is vitally important that the engines and interiors are installed BEFORE the top is welded closed. Although re-engineering of software is not quite as costly as this, it is more efficient to get the correct tasks done in the correct order. e.g. implementation before testing. Also gantt charts let people know the various deadlines and scheduling details for sections of the software.

A ~~test plan~~ ^{user manual} is a piece of documentation vital to users and is developed in the ^{implementation} ~~testing~~ stage. It shows all the functions and operations from the users perspective and explains how to use the program efficiently. It also usually contains brief instructions on the troubleshooting (sometimes included in the troubleshooting guide, another form of user documentation) and a licence agreement and installation tips (sometimes separately as an installation guide). Often sections like keyboard shortcuts, hotkeys or user tips are included in the user manual.