

LOG BOOK RECORD: SESSION #4

Date & Time: 2nd April 2018 13:00

General Comments:

Activity 1 - Task planning and system design changes – see

[TASK_PLAN_76543_QB00700_BRANCH_Q.pdf](#) .

Planned work v achieved work during session #3 was on target.

Activity 5 - system testing and result analysis

The initial hardware testing software ran successfully" proving that the keys" #5%" #6% and piezo sounder is functional.

Activity (- system assembly and programming

Process name	Description	Progress
#5%+task	#5%+, %-.&	/asic implementation
	#5%+ &T+T0.&	TO DO
	#5%+\$--10*2	/asic implementation
	#5%+%-*&	/asic implementation
	#5%+\$A*\$&##&%	/asic implementation
	#5%+-3&4\$--1&%	TO DO

Process name	Description	Progress
key+task	6)ounce key presses	5ull implementation

Process name	Description	Progress
timer+6+0 4	ystem timers	Partial implementation

Process name	Description	Progress
main	.A0*+, %-.&	Partial implementation
	.A0*+4&A%7	Partial implementation
	.A0*+\$--10*2	Partial implementation
	.A0*+%-*&	Partial implementation
	.A0*+\$A*\$&##&%	Partial implementation
	.A0*+-3&4\$--1&%	TO DO

Process name	Description	Progress
#&#+task	#&%+-55	Full implementation
	#&%+\$--10*2	Partial implementation
	#&%+*&A4#7+%-*&	TO REMOVE (redundant)
	#&%+%-*&	Partial implementation
	#&%+-3&4\$--1&%	TO DO

Process name	Description	Progress
timer+<+0 4	Pie's sounder drive	Full implementation

Changes made to design during session #1

Change=

Pressing the >\$A*\$&#? key once the egg has cooked" takes the operator back to the > &T T0.&? screen rather than the >\$A*\$&##&#? screen.

Reason=

From a user's point of view" this >\$A*\$&#? is to cancel the pie's sounder when the egg is >done?" so the most logical screen to return to is the >set time? screen rather than the >cancel? screen used when an order is cancelled.

main process" main+mode A .A0*+%-*&											
	Description	Rules									
Conditions	cancel key pressed	√									
	egg+overcooked+timer reaches zero		√								
Actions	set main+mode A MAIN_READY	√									
	set #&%+mode A LCD_SET_TIME	√									
	set #&%+mode A #&%+-55	√									
	set pie's enable A 5A# &	√									
	set main+mode A .A0*+-3&4\$--1&%		√								
	set #&%+mode A #&%+-3&4\$--1&%		√								
	set #&%+mode A #&%+-3&4\$--1&%		√								
	set pie's enable A 5A# &		√								

Activity 5 - system testing and result analysis
Test o! my session #(work in progress software=

Test #	Purpose of test	Test Data	Expected Result	Actual Result	Comments and justification
1	Test >welcome? message	Power on %evice	>welcome? message displayed	PASS	imple welcome screen
<	Test one key Bstandard@ egg !unction	Press key !or a Bstandard@ 3C minute egg	%evice indicates >\$ooking? and starts down counting !rom 3=36 to 6=66. ,hen 6=66 reached" device indicates >%one? until >\$ancel? pressed)y user.	PASS	
3	Test out o! range timings	Try to program a cooking time)elow < minutes and a)ove 9 minutes	The device should not allow cooking times less than < minutes or more than 9 minutes.	FAIL	*ot implemented yet
(Test the Bcancel@ cooking !unction	elect < minutes cooking time and press >start?. Press >cancel? alter a !ew seconds	%evice indicates >\$ooking? and starts down counting. ,hen the >\$ancel? key is pressed" the timer stops and displays >\$anceled?	PART PASS	,orks with 3C minute egg in >Duickstart ? mode.
5	Test invalid key press when running	elect < minutes cooking time and press >start?. -nce running" press other keys" eEcept >cancel?	%evice indicates >\$ooking? and starts down counting. All key presses should)e ignored. ,hen the >cancel? key is pressed" the timer stops and displays >\$ancelled?	PART PASS	,orks with 3C minute egg in >Duickstart ? mode.

9	Test last timing mode	enable the last timing mode on the device	Repeat tests < in last timing mode. The only difference should be the cooking time is reduced.	FAIL	not implemented yet
8	Test a 9 minute egg in last timing mode	select 9 minutes cooking time and press >start?.	Device indicates >\$ooking? and starts down counting from 9=66 to 6=66. When 6=66 reached" device indicates >%one? until >\$ancel? pressed)y user.	FAIL	not implemented yet

Issues encountered and solutions with justification:

F1G \$hanges to main+mode" .A0*+%-*& as a)ove with reasoning.
F<G #&%+mode" #&%+*&A4#7+%-*& is not reDuiRed as 0 can change the !lash rate o! the #&% locally in the #&%+\$--10*2 mode.

Action list for the next session:

F1G \$ontinue programming the solution as designed.
F<G Test solution to the test plan !rom session 1.