

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" #%" #&% and pie'o sounder is !unctional.

Activity (- system assembly and programming

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

Process name	Description	Progress
key+task	%)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*+%-*&		Rules									
Conditions	Description	√									
	cancel key pressed	√									
	egg+overcooked+timer reaches zero		√								
Actions	et main+mode A MAIN_READY	√									
	et #&%+mode A LCD_SET_TIME	√									
	et #&%+mode A #&%+-55	√									
	et pie'o+enable A 5A# &	√									
	et main+mode A .A0*+-3&4\$--1&%	√									
	et #&%+mode A #&%+-3&4\$--1&%	√									
	et #&%+mode A #&%+-3&4\$--1&%	√									
	et pie'o+enable A 5A# &	√									

Activity 5 - system testing and result analysis
 Test of 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? a)ter 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 reDquired 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.