Surname:	*Branch*							Forenames:	*Q*					
Learner Registration Number:	Q	B	0	0	7	0	0	**Centre Number:**	7	6	5	4	3	

LOG BOOK RECORD: SESSION #1

Date & Time:	**1st April 2018 9:00**	

General Comments:

Activity 1 - Task planning and system design changes – see **TASK_PLAN_76543_QB00700_BRANCH_Q.pdf** .

Activity 2 - Analysis of brief

Operational requirement	**Must have**	**Good to have**	**Nice to have**
Welcome Screen			Identifies Tooley-!ober "otels# as the o$ner of the device.
Select a %standard& ' (min)te egg $ith one key press		When the c)stomer does not have a preference* this saves time in a b)sy kitchen environment +see iss)es belo$,.	
Select any cook time bet$een 2 min)tes and - min)tes in increments of 1. seconds	/andatory re0)irement from the client brief +see iss)es belo$,.		
1perating in a noisy environment	2is)al indication of cooking# and done#	+!o)d, a)dio indication of done#	
Timer r)nning indicator	/andatory re0)irement from the client brief. 2is)al indication.		Additional display – e.g. a bright flashing !34 indicates 5ooking#
Time remaining indication	/andatory re0)irement from the client brief.		!34 described above flashes faster for the last '. seconds of cooking
Timing finished indication	/andatory re0)irement from the client brief. 2is)al indication.		!34 described above is %16& contin)o)sly $hen egg is 4one#
Timing finished indication obvio)s)ntil attended to	/andatory re0)irement from the client brief. 2is)al indication.	A)dio indication of 4one#.	!34 described above remains %16& and b)77er so)nds)ntil %5ancel& key is pressed.

1vercooked indication			!34 described above flashing pattern indicates that the egg is overcooked if the set cooking period has finished and device has not been attended to +see iss)es belo$,.
5ancel Timing	/ andatory re0)irement from the client		
Test / ode		8or testing* an option to r)n the egg timing at a higher rate e.g. 91. faster $o)ld speed)p testing time considerably.	

Initial Test Plan:

Test #	Purpose of test	Test Data	Expected Result	Actual Result	Comments and justification
1	Test $elcome# message	:o$er on 4evice	$elcome# message displayed		
2	Test one key %standard& egg f)nction	:ress key for a %standard& ' (min)te egg	4evice indicates 5ooking# and starts do$n co)nting from ';'. to .;... When .;.. reached* device indicates 4one#)ntil 5ancel# pressed by)ser.		
'	Test o)t of range timings	Try to program a cooking time belo$ 2 min)tes and above - min)tes	The device sho)ld not allo$ cooking times less than 2 min)tes or more than - min)tes.		
<	Test the %cancel& cooking f)nction	Select 2 min)tes cooking time and press start#. :ress cancel# after a fe$ seconds	4evice indicates 5ooking# and starts do$n co)nting. When the 5ancel# key is pressed* the timer stops and displays 5anceled#		

=	Test invalid key press $hen r)nning	Select 2 min)tes cooking time and press start#. 1nce r)nning* press other keys* e9cept cancel#	4evice indicates 5ooking# and starts do$n co)nting. All key presses sho)ld be ignored. When the cancel# key is pressed* the timer stops and displays 5ancelled#		
-	Test fast timing mode	3nable the fast timing mode on the device	>epeat tests 2 in fast timing mode. The only difference sho)ld be the cooking time is red)ced.		
?	Test a - min)te egg in fast timing mode	Select - min)tes cooking time and press start#.	4evice indicates 5ooking# and starts do$n co)nting from -;.. to .;... When .;.. reached* device indicates 4one#)ntil 5ancel# pressed by)ser.		

Issues encountered and solutions with justification:

+1, Where a c)stomer does not specify the time to boil their egg* I ass)me a standard egg takes ' (min)tes to boil. This time needs approval by the head chef before the)nit is mass prod)ced.
+2, 3ven tho)gh the client brief s)ggests that only = boiling times are re0)ired +2*'*<*= and - min)tes,* I think that a finer ad@)stment is needed and the time needs to be ad@)stable in increments of 1. seconds as there is too m)ch difference bet$een a 2 min)te egg and a ' min)te egg +i.e. =.A e9tra time,.
+', The device $ill be $orking in a noisy environment* so vis)al indication is more important than a)dio indication*)nless the a)dio indication is lo)d.
+<, When the boiling time has elapsed* there is a possibility that the egg $ill be overcooked if not attended to promptly. As a nice to have# feat)re* I have considered)sing is an e9tra timer to check for overcooking.

Action list for the next session:

8rom my operational re0)irements#;

+1, / ake a list of possible inp)t and o)tp)t hard$are options and microcontrollers that co)ld achieve my sol)tion.
+2, / ake a table noting the advantages and disadvantages of each element.
+', / ake my selection* giving reasons for my choice
+<, 5reate an o)tline plan for my system that meets the client brief
+=, Start my hard$are design - circ)it +schematic, diagrams* interconnection lists* pin f)nctions etc.
+-, Start my soft$are design – 4ecision tables* 8lo$charts etc.
/ y first soft$are design sho)ld test most of the hard$are f)nctionality* $ith hooks8st)bs to add f)nctionality as the task progresses.