

TutorPoint Integration & Testing Report - Final

Information

Testing Manager Name	Testing Manager Signature	Charters	Date of Testing
Daniel Bishop	I and Biely	Re-test all aspects of program to ensure no bugs	30/05/2020
Eric Walker	Em	generated by new additions to program	55, 55, 2525

Preliminary Notes

Some additions to the program were made post iteration 7 to fix bugs. Intended fixes will be tested in this document.

Whiteboard access and history is not considered functional at this time, and so is not tested. Whiteboard as a whole is not fully functional, but as long as it does not crash too hard, will be accepted.

If testing encounters previously discovered but unfixed bug, It is noted but not considered a failure.

Webcam streaming was tested alongside this document, but is in the Iteration 7 testing document.



1-A. Login Screen Testing Results

Module Under Test	Test Performed	Expected Outcome	Observed Outcome	Test Passed (Y/N)	Error Level	Notes
LoginWind	Press 'Sign Up' button	Opens register window	Does so			
owControll				Υ	-	
er.java						
LoginWind	Press login button with no data	Do not login, display	Does not login, displays			
owControll	entered	appropriate error message in	"Please Enter Username"	Υ	-	
er.java		window	message			
LoginWind	Press login button with valid	Do not login, display	Does not login, displays			
owControll	username, but no password	appropriate error message in	"Please Enter Password"	Υ	-	
er.java		window	message			
LoginWind	Press login button with valid	Do not login, display	Does not login, displays			
owControll	(but not registered username	appropriate error message in	"Wrong Username or			
er.java	and password)	window "user not registered /	Password" message	Υ	-	
	Username: "Eric"	invalid username and				
	Password "EricPassword!1"	password" etc.				
LoginWind	Press login button with valid	Do not login, display	Does not login, displays			
owControll	(and registered) username	appropriate error message in	"Wrong Username or			
er.java	incorrect password	window "Wrong Username or	Password" message	Υ	-	
	Username: "ChemistryTutor"	Password"				
	Password "Test123!"					



LoginWind	Press login button with valid	Should not login and display	Does not login, displays			
owControll	(but unregistered username	appropriate error message in	"Wrong Username or			
er.java	and password that exists in	window "Wrong Username or	Password" message			
	database)	Password"		Υ	-	
	Username: "Eric"					
	Password "Test123!" (belongs					
	to user "TestStudentOne")					
LoginWind	Restart Launcher	Log in and move to main	Does so			
owControll	Login with Valid, registered	screen		Υ	-	
er.java	account					
LoginWind	Login with valid password,	Should not accept username,	Does not login, displays			
owControll	numbers in username	and display an error message.	"Wrong Username or	Υ		
er.java	Username: "ChemistryTutor9"		Password" message	,	-	
	Password "admin"					
LoginWind	Login with valid password, non-	Should not accept username,	Does not login, displays			
owControll	alphanumerics in username	and display appropriate error	"Wrong Username or	Υ		
er.java	Username: "ChemistryTutor*"	message	Password" message	ľ	-	
	Password "admin"					
LoginWind	Attempt to log in with various	Should not accept username,	Does not login, displays			
owControll	possible escape and special	and display appropriate error	"Wrong Username or	Υ	-	
er.java	characters.	message	Password" message			



LoginWind	Does 'Remember Me' button	Should autofill username, but	Does so			
owControll	work? Login with checkbox	not password		Υ	-	
er.java	ticked, then restart					
LoginWind	Login twice with the same	Should reject attempt with	Does so - error message			Error
owControll	account	appropriate error message	'unexpected error'			messag
er.java				٧	1	e could
				ı	1	be
						improve
						d



1-B. Register Screen Testing Results

Module Under Test	Test Performed	Expected Outcome	Observed Outcome	Test Passed (Y/N)	Error Level	Notes
ResgisterSc	Attempt to register as	Should add record to	Does so			
reenContr	Test	database with specified				
oller.java	test@example.com	data		Υ	-	
	P@55word					
	Tutor box unchecked					
ResgisterSc	Attempt to register as	Should Reject username	Rejects username on			Error message is
reenContr	"Test "	with appropriate error	grounds of "Username			truncated and contains
oller.java	test@example.com	message displayed	should only contains	Υ	1	a typo
	P@55word		letters and"[sic]			
	Tutor box unchecked					
ResgisterSc	Attempt to register with blank	Should reject attempt with	Rejects attempt with			
reenContr	fields	appropriate error message	error message "Please	Υ	-	
oller.java			Enter Username"			
ResgisterSc	Attempt to register with just a	Should reject attempt with	Rejects attempt with			
reenContr	valid username	appropriate error message	error message "Please	Υ	-	
oller.java			Enter Email"			
ResgisterSc	Attempt to register with just a	Should reject attempt with	Rejects attempt with			
reenContr	valid username and one email	appropriate error message	error message "Emails	Υ	-	
oller.java			Don't Match"			



ResgisterSc	Attempt to register with just a	Should reject attempt with	Rejects attempt with			
reenContr	valid username and mismatched	appropriate error message	error message "Emails	Υ	-	
oller.java	emails		Don't Match"			
ResgisterSc	Attempt to register with just a	Should reject attempt with	Rejects attempt with			
reenContr	valid username and matched	appropriate error message	error message "Please	Υ	-	
oller.java	emails		Enter Password"			
ResgisterSc	Attempt to register with just a	Should reject attempt with	Rejects attempt with			
reenContr	valid username and matched	appropriate error message	error message	Υ		
oller.java	emails and one password		"Passwords Don't	r	-	
			Match"			
ResgisterSc	Attempt to register with just a	Should reject attempt with	Rejects attempt with			
reenContr	valid username and matched	appropriate error message	error message	Υ		
oller.java	emails and mismatched		"Passwords Don't	r	-	
	passwords		Match"			
ResgisterSc	Attempt to register with invalid	Should reject attempts with	Does so, with error			
reenContr	emails and valid others	appropriate error message	message "Email Not			
oller.java	Emails:		Valid"	Υ	-	
	Testexample.com,					
	test@example					
ResgisterSc	Attempt to register with invalid	Should reject attempts with	Does so, with error			Error message is
reenContr	passwords and valid others	appropriate error message	message "Use 8 or more	Υ	1	truncated again.
oller.java	Passwords to try:		characters with mix-case			



	Pa55word (no symbols);		lett numbers &			Error message should
	P@ssword (no numbers);		symbols"			perhaps read 'mixed-
	p@55word (no capitals);		After the ellipsis was			case'
	P@55WORD (no lowercase);		barely visible.			
	P@55wor (too short)					
ResgisterSc	Verify tutor property is passed	Should create two accounts	Does so			
reenContr	in;	with tutor field reflecting		V		
oller.java	Create two accounts, one a	choices		Y	-	
	tutor one not					
ResgisterSc	Verify username uniqueness	Should reject attempt with	Does so, with error			
reenContr	requirement;	appropriate error message	message "Username	V		
oller.java	Create account with same		Already Taken"	Y	-	
	username as previous account					
ResgisterSc	Verify email uniqueness	Should reject attempt with	Does so, with error			
reenContr	requirement;	appropriate error message	message "Email Address	V		
oller.java	Create account with same email		Already Registered"	Y	-	
	as previous account					
ResgisterSc	Verify back button functions	Should return to login	Does so			
reenContr	Press 'Back to Login' button	screen		Υ	-	
oller.java						



1-C. Dynamic Home Screen Testing Results

Module Under Test	Test Performed	Expected Outcome	Observed Outcome	Test Passed (Y/N)	Error Level	Notes
HomeWind	Loaded into home screen	Window should load with a	Both carousels load			
owControll	using account 'Admin'	carousel of top subjects and a	populated	Υ	-	
er.java		list of top tutors				
HomeWind	Click on left/previous	Carousels should not move	Neither move			
owControll	button on carousels while			Υ	-	
er.java	at start of list					
HomeWind	Click on right/next button	Carousels should advance and	Both carousels load more			
owControll	on carousels while at start	load more subjects/tutors	items	Υ	-	
er.java	of list					
HomeWind	Click on right/next	Carousels should not move	Top Subjects carousel still			Old issue: when top
owControll	buttons when at the end		has old issue, but otherwise			subjects downloads
er.java	of loadable content		works fine			just a single item, it
						does not display it,
				V	1	but instead displays
				Y	1	another instance of
						the previous 5
						elements. Clicking
						back once returns to
						the original instance



						of the previous 5
						items. Clicking back
						again returns to the
						penultimate 5
						elements as
						expected.
HomeWind	Spam-click right/next	Should iterate smoothly	No longer lags, but still			Old issue: spam
owControll	button	through subjects/tutors, or at	shows old issue			clicking produces
er.java		least ignore overclicking		Υ	1	overlapping items
						between shown
						states
HomeWind	Click on downloaded	Should display discover screen	Does so			
owControll	subjects/tutors	for that tutor/subject		Υ	-	
er.java						
HomeWind	Click each tab to verify	Tabs should take user to				
owControll	user is taken to	appropriate non-home screen				
er.java	appropriate screen					



1-D. User Account Viewing/Modifying Testing Results

Module Under Test	Test Performed	Expected Outcome	Observed Outcome	Test Passed (Y/N)	Error Level	Notes
Account	Attempt to view	Should allow viewing of	Works as intended			
details	username, password,	username, email, profile				
screen	email, profile picture	picture and tutor status,		Υ	-	
	and tutor status	but not password for				
		security reasons				
Account	Attempt to change	Should not allow it and	Disallows change, giving			Capitalisation of error message
details	username to the	give appropriate error	error message "Same as			
screen	same username	message	current username"	Υ	1	
	TestStudentOne ->					
	TestStudentOne					
Account	Attempt to change	Should not allow it and	Disallows change, giving			
details	username to an	give appropriate error	error message "Username			
screen	already taken	message	Already Taken"	V		
	username			Y	-	
	TestStudentOne ->					
	TestStudentTwo					
Account	Attempt to change	Should not allow it and	Disallows change, giving			
details	username to an	give appropriate error	error message "Please	Υ	-	
screen	empty string	message	Enter Username"			



	TestStudentOne ->					
Account	Attempt to change	Should not allow it and	Disallows change, giving			typo in error message
details	username to an	give appropriate error	error message "Username			typo in error message
				V	4	
screen	invalid username	message	should only contains	Y	1	
	TestStudentOne ->		letters and have no			
	TestStudentOne1		spaces"[sic]			
Account	Attempt to change	Should not allow it and	Disallows change, giving			
details	username to an	give appropriate error	error message "Please			
screen	untaken username,	message	Enter Password"	V		
	but with no password			Y	-	
	TestStudentOne ->					
	TestStudentOn					
Account	Attempt to change	Should not allow it and	Disallows change, giving			
details	username to an	give appropriate error	error message "Incorrect			
screen	untaken username,	message	Password"			
	but with incorrect			Υ	-	
	password					
	TestStudentOne ->					
	TestStudentOn					



Account	Attempt to correctly	Should allow it and	Does so			
details	change username	update username		Y		
screen	TestStudentOne ->			Ť	-	
	TestStudentOn					
Account	Verify change is	Should only allow login	Works as intended			
details	effected by logging in	using new username				
screen	to account again, first			Υ	-	
	using old username,					
	then new username					
Account	Attempt to change	Should not allow	Does not allow password			
details	password to valid	attempts and give	to be changed. Shows			
screen	password with	appropriate error	error message "Incorrect	Υ		
	incorrect and absent	messages	Password" and "Please	•	-	
	current passwords		Enter Password" as			
			expected.			
Account	Attempt to change	Should not allow	Does not allow password			
details	password to valid,	attempt and give	to be changed. Shows			
screen	mismatched	appropriate error	error message "Passwords	Y	-	
	passwords with valid	message	Don't Match".			
	current password					



Account	Attempt to change	Should not allow	Updates password to the			Should probably reject password
details	password to current	attempt and give	same thing	Y	2	changing attempt, but not
screen	password with valid	appropriate error		Ť	2	important
	current password	message				
Account	Attempt to change	Should not allow	Does not allow password			
details	password to various	attempts and give	to be changed. Shows			
screen	invalid passwords: no	appropriate error	error message "Use 8 or			
	symbol; no number,	messages	more characters with mix-			
	no capital; no		case letters, numbers &			
	lowercase; too short,		symbols".			
	with valid current					
	password					
Account	Attempt to correctly	Should allow it and	Does so			
details	change password	update password		Y	-	
screen	Test123!-> Test123@					
Account	Verify change is	Should only allow login	Does so			
details	effected by logging in	using new password				
screen	to account again, first			Y	-	
	using old password,					
	then new password					



Account	Attempt to change	Should not allow	Rejects attempts with			
details	email to valid email	attempts and give	error messages "Incorrect			
screen	with incorrect and	appropriate error	Password" and "Please	Υ	-	
	absent current	messages	Enter Password".			
	passwords					
Account	Attempt to change	Should not allow	Rejects attempt with error			
details	email to absent email	attempt and give	message "Please Enter	V		
screen	with valid current	appropriate error	Email".	Y	-	
	password	message				
Account	Attempt to change	Should not allow	Rejects attempt with error			
details	email to mismatched	attempt and give	message "Emails Don't	V		
screen	emails with valid	appropriate error	Match".	Y	-	
	current password	message				
Account	Attempt to change	Should not allow	Rejects attempt with error			
details	email to invalid email	attempt and give	message "Email Not Valid".	V		
screen	with valid current	appropriate error		Y	-	
	password	message				
Account	Attempt to change	Should not allow	Rejects attempt with error			
details	email to already	attempt and give	message "Email Already	V		
screen	taken email with valid	appropriate error	Registered".	Y	-	
	current password	message				



Account	Attempt to correctly	Should allow it and	Does so			
details	change email	update email				
screen	testts1@example.co			Y		
	m->			Y	-	
	testchanged@exampl					
	e.com					
Account	Verify change is	Should display new	Does so			
details	effected by logging in	email				
screen	to account again, and			Υ	-	
	returning to account					
	details screen					
Account	Attempt to set profile	Should not change	Does not			
details	picture for the first	anything or crash		Y		
screen	time, but cancel file			T	-	
	choosing dialogue					
Account	Select a profile	Should not permanently	Does so			
details	picture and do not	change anything, but				
screen	cancel	display it in the window -		Υ	-	
		verify by logging out and				
		back in				



Account	Select a profile	Should create a file in	Does so			
details	picture and then	the server resources.				
screen	press 'Update Image'	Will not be reflected on				
	button	the client side after a		Υ	-	
		relog as this feature is				
		not yet fully				
		implemented				
Account	Attempt to change	Should not allow	Rejects attempts with			
details	tutor account status	attempts and give	error messages "Incorrect			
screen	with incorrect and	appropriate error	Password" and "Please	Υ	-	
	absent current	messages	Enter Password".			
	passwords					
Account	Attempt to change	Can either allow or	Allows attempt			
details	tutor account status	disallow attempt, but				
screen	to same as current	should not change status		Υ	-	
	with valid current					
	password					
Account	Attempt to change	Should allow attempt,	Allows attempt, changes			
details	tutor account status	and change status	status			
screen	to different to current			Υ	-	
	with valid current					
	password					



Account	Attempt to change all	Should allow changes	Does so			
details	information back to	back to previous values:				
screen	previous states	values of username and				
	TestStudentOne	email are no longer		Υ	-	
	Test123!	taken. Cannot revert				
	testts1@example.co	profile picture.				
	m					



1-E. Joining Lesson Testing Results

Abbreviations: ChemistryTutor = CT, TestStudentOne = TS1, TestStudentTwo = TS2, TestStudentThree = TS3, TS1 + TS2 are both following CT. TS3 is not.

Module Under Test	Test Performed	Expected Outcome	Observed Outcome	Test Passed (Y/N)	Error Level	Notes
	Log in as CT CT should not show as live Functions as					
	Log in with TS1 and TS2	for TS1 and TS2, then show	intended, CT was			
	CT start stream	up when stream is started	added to Live	Υ	-	
			Tutors list as			
			expected			
	Log in as CT	CT should not show up as live	CT never showed			
	Log in with TS3	for TS3 even after stream is	up on TS3 screen.			
	CT start stream	started	Showed as			
			intended on TS1	Υ	-	
			screen which was			
			still open in			
			background			
	Log in as CT	TS1 should be taken to	Works as intended			
	Log in with TS1 and TS2	stream screen, and see				
	CT start stream, draw	nothing on whiteboard		Υ	-	
	nothing on whiteboard,					
	join stream with TS1					



Following from previous	TS2 should see previously	TS2 does not see			The whiteboard feature is
test, draw on CT	drawn shapes from CT. TS1	past drawn shape			unfinished - Test was not
whiteboard.	should see shape appear	from Tutor.	N	3	expected to wholly succeed
TS2 join stream	when drawn.	Otherwise as			
		expected			
Log in as CT	TS2 should see shapes drawn	TS2 does not see			Same as above, Whiteboard is
Log in with TS1 and TS2	by TS1 prior to joining	the shapes			an unfinished feature
CT start stream,					
join stream with TS1			N	3	
and draw on					
whiteboard,					
TS2 join stream					
Reload windows	TS1 should see a placeholder	Placeholder slide is			
Log in as CT	presentation slide	seen			
Log in with TS1 and TS2			Y		
CT start stream, do not			Y	-	
upload a presentation,					
join stream with TS1					
Following on from	TS1 should receive newly	Works as intended			Slight delay between each
previous test,	uploaded presentation		V		presentation, but not too bad
CT upload presentation	TS2 should get presentation		Y	-	
TS2 join stream	upon loading in				



Can other tutors affect a	Changes made on	No changes were			
tutor's stream?	PhysicsTutor should not	observed by CT or			
Log in as CT, TS1.	affect CT stream for CT nor	TS1			
Log in as PhysicsTutor.	TS1				
PhysicsTutor and CT			V		
start streaming			Y	-	
TS1 join CT stream.					
PhysicsTutor modify					
presentation and					
Whiteboard					
Can student leave	TS1 should no longer see CT	Works as intended			
stream? TS1 join CT	stream window		V		
stream, then TS1 press			Y	-	
disconnect button					
Tutor ending stream for	CT should be put into not live	Works as intended			
student - TS1 in CT	state, and TS1 should be		Y		
stream, CT press stop	kicked from steam is if they		Y	-	
streaming button	disconnected themselves				
Tutor ending stream for	TS1 should never see CT as	CT was not			
student not yet logged in	live	observed as live by	Υ	-	
		TS1			



Log in as CT. start					
streaming. Stop					
streaming					
Log in as TS1. CT should					
not be shown in list of					
live tutors					
Tutor ending stream for	TS1 should see CT appear as	CT appeared in TS1			
following student who is	live, then disappear	live list, then			
logged in, but not in		disappeared as			
stream		expected	Y	-	
CT and TS1 log in					
CT start streaming					
CT stop streaming					



1-F. Stream Window Testing Results

Module Under Test	Test Performed	Expected Outcome	Observed Outcome	Test Passed (Y/N)	Error Level	Notes
StreamWin	Is there a screen	There should be	There is a tab containing 3 different			Multiview is not an implemented
dowContro	to view	some way of	panes, but panes do not display			feature and so test was not
ller	whiteboard, slides	viewing 3 different	video, presentation and whiteboard	N	3	expected to pass
	and video all at	areas at once				
	once					
StreamWin	Can each of the	The panes should	Two of the panes could have their			Multiview is not a fully
dowContro	areas in the multi	resize	vertical balance adjusted. Vertical			implemented feature and so test
ller	view be resized?		divider could not be moved	N	3	was not expected to pass
	Attempt to resize			N	3	
	by clicking and					
	dragging.					
StreamWin	Can just the video	The screen should	The screen displays an area with the			
dowContro	section be	display an area	video	Υ		
ller	shown? Click on	with the video		1	-	
	'Video' tab					
StreamWin	Can just the	The screen should	The screen displays an area with the			
dowContro	presentation	display an area	presentation	V		
ller	section be	with the		Y	-	
		presentation				



	shown? Click on					
	'Presentation' tab					
StreamWin	Can just the	The screen should	The screen displays an area with the			
dowContro	whiteboard	display an area	whiteboard			
ller	section be	with the		Υ	-	
	shown? Click on	whiteboard				
	'Whiteboard' tab					



1-G-i. Whiteboard Pen Testing Results

Note: not all whiteboard features are fully implemented. While the program should not crash, some features will not function as intended.

Module Under Test	Test Performed	Expected Outcome	Observed Outcome	Test Passed (Y/N)	Error Level	Notes
Whiteboar	Attempt to draw a	Line should be	Line was drawn			Line was very laggy - took a
dWindowC	pen line	drawn on		Y		noticeable time to draw after
ontroller.ja		whiteboard			-	mouse moved
va						
Whiteboar	Attempt to draw a	Line should not be	Line was not drawn	Y		
dWindowC	pen line not in	drawn			-	
ontroller.ja	whiteboard space					
va						
Whiteboar	Attempt to draw a	Line should be	Worked as expected			
dWindowC	pen line from	drawn on				
ontroller.ja	whiteboard, to off	whiteboard, both				
va	whiteboard and	before leaving and		Υ	-	
	back on	after returning to				
		whiteboard, but				
		not off whiteboard				



1-G-ii. Whiteboard Shapes Testing Results

Module Under Test	Test Performed	Expected Outcome	Observed Outcome	Test Passed (Y/N)	Error Level	Notes
Whiteboar	Draw a shape of	Should add shapes where	Worked as intended			Preview was very laggy, similar
d screen	each type	clicked and dragged.				to pen line
		Clicking and dragging		Y		
		should display a preview			-	
		of where the shape will be				
		drawn				
Whiteboar	Draw a	Should draw a translucent	Worked as intended			Preview was very laggy again
d screen	highlighter line	line over shapes				
	over the top of			Υ	-	
	previously drawn					
	shapes					
Whiteboar	Erase drawn	Should remove drawn	Did so			Laggy again
d screen	objects	features where touched		Υ	-	
		by eraser				
Whiteboar	Draw more of	Should draw as before,	Shapes are drawn with new			
d screen	each pen/shape	but with new colours	colour correctly	V		
	in different	(excepting eraser)		Y	-	
	colours					



Whiteboar	Draw more of	Should draw as before,	Shapes are drawn with new			
d screen	each pen/shape	but with different	thickness	Y		
	in different	thicknesses (excepting		Ť	-	
	thicknesses	eraser)				
Whiteboar	Does shape	Shape should be drawn to	It does so			
d screen	preview match	match mouse position,		Y		
	drawn shape	regardless of if laggy		Y	_	
		preview has caught up				
Whiteboar	Is shape preview	Shape preview should	It is			
d screen	always visible?	always be the top layer of				
	Drawn shaped,	the image		Y		
	then preview			1	-	
	overlapping					
	shape					



1-G-iii. Whiteboard Window Text Testing Results

Module Under Test	Test Performed	Expected Outcome	Observed Outcome	Test Passed (Y/N)	Error Level	Notes
Whiteboar	Attempt to draw some	Text should be drawn to	Text is drawn fine			Whiteboard is not a finished
d.java	text 'test'	screen in selected colour,	except that it is drawn	N	3	module
	Click and drag text to	at a size defined by clicking	in black, rather than	IN	3	
	size.	and dragging	the selected colour			
Whiteboar	Click on text button,	Should first draw 'test',	Works as intended			
d.java	enter text 'test'. Draw	then draw nothing, as text				
	text, then click on text	tool is now deselected		V		
	button again, change			Υ	-	
	text 'tset', draw more					
	text					
	Following from	Should draw 'tset'	Works as intended			
	previous test, reselect			Υ	-	
	text and draw.					
Whiteboar	Draw special characters	Should draw special	Works as intended			
d.java	- '@, #, \$, %, &, * éê+'	characters same as any		Υ	-	
	and '\n "' \\'	other				
Whiteboar	Capacity - can the	Should draw entire bee	Due to text only			
d.java	entire bee movie script	movie script	drawing on single line,	Υ	-	
	be entered?		visible text was			



	truncated by	display	
	width, but th	is is a	
	non-issue		



1-G-iv. Whiteboard Mirroring Testing Results

Acronyms are shared with 1-E.

Assume all clients mentioned in tests are in a stream together

Module Under Test	Test Performed	Expected Outcome	Observed Outcome	Test Passed (Y/N)	Error Level	Notes
Whiteboard	Attempt to draw	All items should be	Worked as intended			
module	a variety of	drawn on the CT's				
	shapes, pen	screen, and also on				
	lines,	TS1's screen		Υ	-	
	highlighters and					
	text on CT's					
	canvas					
Whiteboard	Attempt to erase	Items should be	Works as intended			
module	items on CT's	removed from both CT		V	-	
	whiteboard	and TS1's screens		Y		
		identically				
Whiteboard	Repeat above	Items should be	Works mostly as intended			Bug #58 is when a student draws
module	tests, but draw	drawn/removed from	Old bugs #58 and #36	N	2	a pen or eraser and extra line
	on TS1 screen	both screens identically.	reoccurred	N	3	segments connecting non-
						sequential points are generated.



						Bug #36 is where a mirrored shape preview is rendered beneath other shapes.
Whiteboard	Mirroring with	Should reflect the	Worked as intended (aside			
module	more than 2	drawing on all 3	from bugs rediscovered above)			
	clients: open 3	windows to each other		V		
	clients, draw on			Y	-	
	each. Note: no					
	pen or eraser					



1-H-i. Presentation Loading Testing Results

Module Under Test	Test Performed	Expected Outcome	Observed Outcome	Test Passed (Y/N)	Error Level	Notes
Presentati	Cancel selection dialog	Should not take any	Nothing happens			'Loading' is displayed despite
onObject/		action		Y	1	not actually loading anything
XmlHandle				Ť	1	
r						
Presentati	Attempt to select nonxml	Should not even	Cannot find file as			
onObject/	file; "D:\Random\ray	allow file to be	selection window is	V		
XmlHandle	mears.png"	viewed	filtered for 'Presentation	Y	-	
r			Files' (.xml)			
Presentati	Load url pointing to xml	Should reject	File is rejected with error			
onObject/	file that is not a 'slideshow'	attempt with	message 'File is not a			
XmlHandle	"D:\VSCodeSWENG\TutorP	appropriate error	slideshow document.'			
r	oint\client\src\main\resou	message		Υ	-	
	rces\application\media\X					
	ML\Exploratory\NotPresen					
	tation.xml"					
Presentati	Load url pointing to xml	Should reject	File is rejected with error			Slightly odd capitalisation
onObject/	file that has no slides	attempt with	message 'Presentation	V	4	
XmlHandle	"D:\VSCodeSWENG\TutorP	appropriate error	Rejected as zero slides	Y	1	
r	oint\client\src\main\resou	message				



	rces\application\media\X		were successfully			
	ML\Exploratory\Presentati		registered.'			
	onNoSlides.xml"					
Presentati	Load url pointing to xml	Should reject	File is rejected with error			This error message is
onObject/	file that has invalid	attempt with	message 'File rejected			appropriate as totalslides is an
XmlHandle	document info	appropriate error	due to invalid 'totalslides'			attribute of documentinfo
r	"D:\VSCodeSWENG\TutorP	message	field.'	V		
	oint\client\src\main\resou			Y	-	
	rces\application\media\X					
	ML\Exploratory\Presentati					
	onBadDocumentInfo.xml"					
Presentati	Load url pointing to xml	Should reject	File is rejected with error			This error message is
onObject/	file that has invalid	attempt with	message 'File rejected			appropriate as fontsize is an
XmlHandle	defaults	appropriate error	due to invalid 'fontsize'			attribute of defaults
r	"D:\VSCodeSWENG\TutorP	message	field.'	Υ		
	oint\client\src\main\resou			Ť	-	
	rces\application\media\X					
	ML\Exploratory\Presentati					
	onBadDefaults.xml"					



1-H-ii. Presentation Display and Timing Testing Results

All tests use a presentation file with features allowing test to be performed

Module Under Test	Test Performed	Expected Outcome	Observed Outcome	Test Passed (Y/N)	Error Level	Notes
TimingMan	Are slides sized	Slides should be sized the	This happens correctly			
ager/Prese	correctly?	same as they are defined in				
ntationObj		the xml, and cut off visual		Υ	-	
ect		features outside of these				
		boundaries				
TimingMan	Will large slides	Sliders should appear at	Functions as expected			
ager/Prese	create scrollbars	right and bottom of the				
ntationObj	when they are	viewing area and allow the				
ect	larger than the	entire slide to be viewed by		Υ	-	
	viewing area?	scrolling				
	Load large slide					
	presentation					
TimingMan	Do timered slides	Slides should move on to	They do			
ager/Prese	move on to next	the next slide after their		Υ		
ntationObj	slide when	allotted time		Y	-	
ect	finished					



TimingMan ager/Prese ntationObj ect	Do slides loop forwards correctly	Final slide should return to Oth slide upon slide change	Does so	Y	-	
TimingMan ager/Prese ntationObj ect	Do slides loop backwards correctly	Oth slide should not change upon pressing 'Prev Slide' Button	Does not change	Y	-	
TimingMan ager/Prese ntationObj ect	Do timings work upon manual slide change	Changing slide should cause timed elements to appear and disappear as intended	Works as intended	Y	-	
TimingMan ager/Prese ntationObj ect	Are image, video and text elements displayed correctly?	All elements should appear as described in xml	All elements are displayed as intended	Y	-	



1-H-iii. Presentation Mirroring Results

Acronyms shared with 1-E.

Module Under Test	Test Performed	Expected Outcome	Observed Outcome	Test Passed (Y/N)	Error Level	Notes
Presentation	TS1 Join CT	Should display a	Does so			
Handler.java	stream with no	placeholder				
	currently	presentation		Υ	-	
	uploaded					
	presentation					
Presentation	CT upload a	TS1 should receive	Does so			
Handler.java	presentation	presentation and		Y		
	while TS1 is in	begin displaying as			-	
	stream	well				
Presentation	TS1 Join CT	TS1 should load	Works as intended			
Handler.java	stream with	and display				
	currently	presentation		Υ	-	
	uploaded					
	presentation					
Presentation	TS1 join CT	Presentation	Presentation is not shared			
Handler.java	stream with no	should not be		Y	-	
	uploaded	shared				



	presentation,					
	but CT has					
	attempted to					
	load an invalid					
	presentation					
Presentation	CT attempt to	Presentation	Presentation is not shared			
Handler.java	load invalid	should not be				
	presentation	shared		Υ	-	
	while TS1 is in					
	stream					
Presentation	TS1 join stream	TS1 should load	Does so			
Handler.java	when CT is on	and move to		Y		
	not the 0th	appropriate slide		ľ	-	
	slide					
Presentation	Does slide	Pressing Previous	Does so			
Handler.java	change for TS1	and next slide				
	when CT	buttons on CT		Υ		
	changes slide?	screen should		Y	-	
	Forwards and	move presentation				
	backwards	on TS1 screen				



Presentation	Can student	TS1 should not	TS1 does not have any bottons			
Handler.java	(TS1) change	even have buttons		V		
	slides?	to try to change		ī	-	
		slide				



1-I. Text Chat Testing Results

Acronyms shared with 1-E.

Module Under Test	Test Performed	Expected Outcome	Observed Outcome	Test Passed (Y/N)	Error Level	Notes
Text Chat	Log in as CT	TS1 should join to	As expected			
	Log in with TS1	a blank text chat				
	and TS2					
	CT start stream,			Υ	-	
	type nothing in					
	text chat, join					
	stream with TS1					
Text Chat	Following from	Messages should	Was so			
	previous test,	be shared between				
	CT and TS1 type	clients		Υ	-	
	messages in text					
	chat					
	Following from	Messages should	The messages looked right			
	previous, are	take the form				
	User's messages	<username> :</username>		Υ	-	
	labeled with their	<message></message>				
	usernames					



Text Chat	Following from	Should not see	Was so			
	previous test, TS2	previous chat logs.		Υ	-	
	join stream					
Text Chat	Following from	Messages should	As expected			
	previous test, all 3	be shared between		V	-	
	clients type in text	all clients		Y		
	chat.					
Text Chat	Keep adding more	Chat should not	Worked as intended			
	messages until	expand, add a		Y	-	
	text chat area is	sidebar and stay at		Y		
	overflowed	the bottom				
Text Chat	While text chat is	Chat should	Did so			
	overflowed, scroll	maintain position				
	partway up and			Y	-	
	continue adding					
	more messages					
Text Chat	Send escape	Should simply send	As expected			
	characters	as a string, with no		Y	-	
		issue				
Text Chat	Change view tab -	Text chat should	As expected			
	is chat persistent	be present for any		Y	-	
		tab of the stream				



		window with			
		constant contents			
Text Chat	Attempt to send	Should not send	Does Not send anything		
	empty string	anything		Υ	



1-J. Following Testing Results

Acronyms shared with 1-E.

Module Under Test	Test Performed	Expected Outcome	Observed Outcome	Test Passed (Y/N)	Error Level	Notes
	Follow CT as TS1	TS1 should be considered as	Works as intended			
		following CT; CT should show				
		up for TS1 when CT goes live		Υ	-	
		and this should be persistent				
		between logins				
	Unfollow CT as	TS1 should not be considered	Works as intended			
	TS1	as following CT; CT should				
		not show up for TS1 when CT		Υ	-	
		goes live and this should be				
		persistent between logins				
	Follow CT as CT	Should not allow this to	CT cannot follow itself.			logging/user feedback could be
		happen.	No onscreen error			better, but core function is
			message, but logs show			acceptable
			'[ERROR]	Υ	2	
			TutorWindowController -			
			FAILED_BY_DATABASE_E			
			RROR'			



	Follow Maths as	Should make subjects appear	Was so			Pressing follow button made
	TS1	in subscriptions 'because you		V	1	subject title font size change. So
		liked <subject>' section,</subject>				did pressing print screen to show
		where <subject> is now</subject>		ĭ	1	people.
		maths. Change should be				
		persistent between logins				