CS221 Group Project Test Specification

Project Team

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${\bf Contents}$

1	Introduction	3
	1.1 Purpose of this Document	3
	1.2 Scope	3
	1.1 Purpose of this Document1.2 Scope1.3 Objectives	3
2	TestPlan	4
	2.1 Android User	4
	2.2 Website User	Ö
	2.3 Server	14
3	Test Result Reporting	19
	3.1 Report	19
4	Refrences	20
	4.1 Refrence	20
5	Document History	21

1 Introduction

1.1 Purpose of this Document

This document describes the test specification and procedure for the Reserve Plant Species Recording project ("RPSR"). The document will give a guide on the main stages of testing. Team members are to read this document and confirm that the test specification is understood, and sets out sufficient testing requirements. This document will give a guide to what the expected outputs of each stage in the project are.

1.2 Scope

This test specification aims to provide information about what in the project needs to be tested for the RPSR. As well as the expected results from these tests.

1.3 Objectives

The objectives of this document are:

- To provide all the developers a document that can be looked up to make sure they understand what is needed
- To make sure that all the developers can expect the same goals
- To make sure that once a task has been completed it matches with the expected result
- To make sure that the project is kept to the requirements stated in the brief
- To make sure we know what we will need to check when we finish the project

2 TestPlan

2.1 Android User

Individual Module Testing will be left to the coder, and tests should be written before the coding is done.

App should our message ap- ould display an dicating correct the input rname the user to the next part pp r message shows the input r message shows the input with a valid number and	Test Ref	Red	Test Content	Input	Output	Pass
FR2 Valid username allows Enter valid username No error message apuser to login FR2 Invalid username does Enter username that is not allow user to login outside of the required error indicating correct length eg "ab" or "aschlengths" FR2 Empty Username is not Have the username An error message shows accepted empty empty end username the user can go to the next part of the app not accepted empty empty FR2 Empty phone number is Enter a valid Along with a valid email is accepted empty empty not accepted empty empty empty not accepted empty not accepted empty empty not accepted empty an invalid phone number is Enter an invalid phone number is Enter an invalid phone empty not accepted empty empty not accepted empty not accepted empty an ext to the input of accepted empty not accepted empty number e.g. and username the user can go to the next part of this@that.com FR2 Valid email is accepted email address e.g. phone number and username the user can go to the next part of the app this@that.com FR3 Valid email is accepted email address e.g. phone number and this@that.com FR4 Phone number is Enter a valid phone number and the user can place and this@that.com FR5 Valid email is accepted the phone number and the user can place and this@that.com FR6 Phone number is Enter a valid the app the app the app the pape that the app the accepted the ac	SE-F-001	FR1		Touch App logo	App	Android app opens to
FR2 Valid username allows by the control of size 3 user to login e.g. Alexander FR2 Invalid username does buter username that is accepted by the number is bloome number e.g. and username the username the username the username the username the username of the app of					open	the users activity.
user to login e.g. Alexander fraction of size 3 < Username < 10 pears e.g. Alexander not allow user to login outside of the required error indicating correct length eg "ab" or "asd-lengths grows accepted FR2 Empty Username is not Have the username An error message shows accepted FR2 Valid phone number is bnter a valid and username the user of the app FR2 Empty phone number is Bnter a valid Along with a valid email accepted FR2 Empty phone number is Have the phone number e.g. and username the user of the app FR2 Invalid phone number is Enter an invalid phone number e.g. and username the input of accepted FR2 Invalid email is accepted FR3 Valid email is accepted Enter a valid Along with a valid email empty FR4 Valid email is accepted Enter a valid Along with a valid email empty But to the input number e.g. and username the user can number email address e.g. phone number and username the user can so to the app.	SE-F-002	FR2	Valid username allows	Enter valid username	No error message ap-	App proceeds to speci-
FR2 Invalid username does Enter username that is App should display an not allow user to login length eg "ab" or "asd-lengths fghiklqw" 10 FR2 Empty Username is not Have the username An error message shows accepted empty empty lone number is Enter a valid and username the user of 7808369246 and username the user of the app not accepted empty empty length is accepted and username the user of the app not accepted empty empty length invalid phone number is Enter an invalid phone number e.g. and username the user of empty empty length invalid phone number is Enter an invalid phone number and user an invalid phone number is empty length length and length a valid email is accepted email address e.g. phone number and this@that.com go to the next part of the app			user to login	of size 3 <username<10< td=""><td>pears</td><td>men activity.</td></username<10<>	pears	men activity.
FR2 Invalid username does Enter username that is not allow user to login outside of the required error indicating correct length eg "ab" or "asd-lengths graphy outside of the required error indicating correct length w" 10 FR2 Empty Username is not Have the username An error message shows excepted empty empty number e.g. and username the user of 7808369246 and username the user of 7808369246 and username the user of the app empty empty hone number is Enter an invalid phone number e.g. and username the user empty empty empty empty number e.g. and username the input empty empty empty hone number is Enter an invalid phone number is empty				e.g Alexander		
hot allow user to login outside of the required length eg "ab" or "asdlength eg "ab" or "asdlength erequired lengths" 10 FR2 Empty Username is not Have the username An error message shows accepted empty bhone number e.g. and username the user of 7808369246 and username the user of 1808369246 and username the input empty empty hone number is Enter an invalid phone number e.g. and username the input not accepted empty empty hore number e.g. "a" herror message shows not accepted number e.g. "a" herror message shows not accepted empty empty empty hone number e.g. "a" herror message shows not accepted email address e.g. phone number and this@that.com go to the next part of the app	SE-F-003	FR2	username	Enter username that is	App should display an	An error message in a
FR2 Empty Username is not Have the username accepted empty before number is Enter a valid Along with a valid email accepted phone number is Enter a ninvalid phone number is Enter an invalid phone number is number e.g. and username the user can phone number is Enter an invalid phone number is Enter an invalid phone number and this@that.com FR2 Valid email is accepted accepted and this@that.com FR3 Valid email is accepted and this@that.com go to the next part of the input and response number and this@that.com go to the next part of the app			not allow user to login	outside of the required	error indicating correct	box should pop up say-
FR2 Empty Username is not Have the username An error message shows accepted number is Enter a valid Along with a valid email accepted phone number is Enter a valid Along with a valid email accepted accepted and username the user of the app of the app accepted and address e.g. and username the user of the app accepted and accepted an invalid phone number is Enter an invalid phone accepted and address e.g. phone number and this@that.com accepted this@that.com accepted this@that.com accepted accepted and this@that.com accepted this@that.com accepted this@that.com accepted this@that.com accepted this@that.com accepted the next part of the app				length eg "ab" or "asd-	lenghts	ing that the username
FR2 benety Username is not Have the username An error message shows accepted empty bhone number is Briter a valid Along with a valid email accepted bhone number is Enter an invalid phone number is Enter an invalid phone number e.g. and username the user of 7808369246 can go to the next part of the app of th				fghjklqw" 10		has to be between 3 and
FR2 Empty Username is not dempty accepted accepted number is Enter a valid Along with a valid email address e.g. and username the user of the app of the app accepted accepted number is Enter an invalid phone number is Enter an invalid phone number e.g. and username the user of the app accepted empty not accepted accepted number e.g. and username the user of the app accepted empty not accepted number e.g. and accepted number e.g. and accepted empty number e.g. and accepted number e.g. and accepted number e.g. and accepted number e.g. and his@that.com accepted this@that.com go to the next part of the app this@that.com go to the next part of the app the app						10 characters long.
FR2 Valid phone number is Enter a valid Along with a valid email accepted phone number is Enter a valid Along with a valid email is accepted phone number is Enter an invalid phone number is Enter an invalid phone number is Enter an invalid phone number a valid email is accepted Enter a valid Along with a valid email is accepted Enter a valid email is accepted this@that.com ER2 Valid email is accepted Enter a valid email is accepted this@that.com ER2 Valid email is accepted this@that.com Enter a valid email enter the input	SE-F-004	FR2	Empty Username is not	$_{ m the}$	An error message shows	User is told of the er-
FR2 Valid phone number is Enter a valid Along with a valid email accepted phone number e.g. and username the user of the app of the app next part of the app next phone number is Enter an invalid phone number is Enter an invalid phone number e.g. "a" FR2 Invalid phone number is Enter an invalid phone number e.g. "a" FR2 Invalid email is accepted number e.g. "a" FR3 Valid email is accepted Enter a valid Along with a valid email is accepted Enter a valid so to the next part of the app the app			accepted	empty	next to the input	ror and the app does not
FR2 Valid phone number is Enter a valid Along with a valid email address e.g. and username the user of 27808369246 FR2 Empty phone number is mot accepted email is accepted number e.g. and username the user of the app of the app not accepted email address e.g. phone number and this@that.com FR2 Invalid phone number is Enter an invalid phone number e.g. "a" FR3 Valid email is accepted email address e.g. phone number and this@that.com go to the next part of the input a valid email address e.g. phone number and this@that.com go to the next part of the app						proceed
FR2 Empty phone number is not accepted FR2 Invalid phone number is not accepted FR2 Invalid email is accepted FR2 Valid email is accepted FR2 Valid email is accepted FR3 Valid email is accepted FR4 Valid email is accepted FR5 Valid email is accepted FR6 Enter a invalid phone number e.g "a" FR7 Valid email is accepted FR8 Valid email is accepted FR9 Phone number and serial address e.g. phone number and this@that.com Go to the next part of the app FR9 Phone number and serial address e.g. phone number and this@that.com Go to the next part of the app	SE-F-005	FR2	Valid phone number is	в	Along with a valid email	An error message does
FR2 Empty phone number is not accepted empty FR2 Invalid phone number is accepted FR2 Invalid email is accepted FR2 Valid email is accepted FR3 Valid email is accepted FR4 Since the phone number of this@that.com FR5 Valid email is accepted FR6 Since an invalid phone invalid phone number and this@that.com FR7 Since the input is accepted FR8 Since the input invalid phone number and invalid email is accepted FR8 Since the input invalid phone invalid input invalid email is accepted FR9 Since the input invalid email em			accepted	number	and username the user	not show next to the in-
FR2 Empty phone number is empty Of the app Of the app An error message shows number is Enter an invalid phone accepted number e.g. "a" FR2 Invalid phone number is Enter an invalid phone heart to the input number e.g. "a" FR2 Valid email is accepted Enter a valid email address e.g. phone number and this@that.com go to the next part of the app				07808369246	can go to the next part	put and the user moves
FR2 Empty phone number is empty FR2 Invalid phone number is number e.g "a" FR2 Invalid email is accepted FR2 Valid email is accepted FR2 Valid email is accepted FR3 Valid email is accepted FR4 can invalid phone number e.g "a" FR5 Invalid phone number e.g "a" FR6 Name accepted FR7 Palid email is accepted FR8 email address e.g. phone number and this@that.com go to the next part of the app					of the app	on
FR2 Invalid phone number is accepted an invalid phone An error message shows not accepted number e.g. "a" next to the input number e.g. "a" next to the input email is accepted Enter a valid Along with a valid email address e.g. phone number and this@that.com go to the next part of the app	SE-F-006	FR2	Empty phone number is	Have the phone number	An error message shows	User is informed of the
FR2 Invalid phone number is Enter an invalid phone An error message shows not accepted number e.g. "a" next to the input FR2 Valid email is accepted Enter a valid Along with a valid email address e.g. phone number and this@that.com go to the next part of the app			not accepted	empty	next to the input	error and the app does
FR2 Invalid phone number is Enter an invalid phone An error message shows not accepted number e.g "a" next to the input FR2 Valid email is accepted Enter a valid Along with a valid email address e.g. phone number and this@that.com username the user can go to the next part of the app						not proceed
FR2 Valid email is accepted Enter a valid Along with a valid email address e.g. phone number and this@that.com go to the next part of the app	SE-F-007	FR2	Invalid phone number is	Enter an invalid phone	An error message shows	User is informed of the
FR2 Valid email is accepted Enter a valid Along with a valid email address e.g. phone number and this@that.com go to the next part of the app			not accepted	number e.g "a"	next to the input	error and the app does
FR2 Valid email is accepted Enter a valid Along with a valid email address e.g. phone number and this@that.com go to the next part of the app						not proceed
address e.g. phone number and that.com username the user can go to the next part of the app	SE-F-008	FR2		а	with a	The app proceeds to the
				address	number	specimen adder activity
go to the next part of the app				$ ext{this} @ ext{that.com}$	username the user can	
the app					go to the next part of	
_					the app	

SE-F-009	FR2	Empty Email is not ac-	Have the email address	An error message shows	User is informed of the
		cepted	empty	next to the input	error and the app does
					not proceed
SE-F-010	FR2	Invalid email is not ac-	Enter an invalid email	An error message shows	User is informed of the
		cepted	address e.g. this@that	next to the input	error and the app does
					not proceed
SE-F-011	FR2	App gets the GPS infor-	User waits for valid	Message is shown to say	User is allowed to move
		mation from the phone	GPS signal	that a valid GPS signal	on without entering a
				has been found	site name
SE-F-012	${ m FR2}$	Site name is accepted	User enters the name	No error is displayed,	User is allowed to move
			of the site e.g Aberyst-	the app moves to the	on
			wyth	speicmen adder	
SE-F-013	FR3	Latin name auto-	User enter the first four	A list of all the Latin	All the Latin names
		completes	letters of a latin name	names with the input	that appear all have the
			e.g. gara	appears	input in them
SE-F-014	${ m FR4}$	Plant photo button	User touches the plant	User's phone goes to the	User able to take pic-
		works	photo button	inbuilt camera	ture with inbuilt camera
SE-F-015	${ m FR4}$	Site photo button works	User touches the site	User's phone goes to the	User able to take pic-
			photo button	inbuilt camera	ture with inbuilt camera
SE-F-016	FR4	Plant photo is saved	User takes a plant photo	Picture is taken and	The photo is saved, and
				takes the place of the	ready to be submitted
				plant photo button	
SE-F-017	${ m FR4}$	Site photo is saved	User take site photo	Picture is taken and	The photo is saved
				takes the place of the	ready to be submitted
				site photo button	
SE-F-018	FR4	User not allowed to add	Attempt to enter a	Message states that the	Does not enter to
		a non-image file when	non-image file to the	file is not an image file.	database. Returns to
		prompted for a picture	database.		input page.
		ot a plant.			

SE-F-019	FR4	User not allowed to add	Attempt to enter an ab-	States that the file ex-	Does not enter to
		a picture of a plant	surdly large image file	ceeds filesize limits.	database. Returns to
		to the database if over	to the database (e.g		input page.
		10MB	20MB).		
SE-F-020	FR4	User allowed to edit	User slides the abun-	The abundance slider	The abundance is
		abundance	dance slider	moves	changed and recorded
SE-F-021	FR3	User allowed to add	Enter plant name to	States that plant details	Plant details success-
		a plant name to the	the database via an-	are successfully added	fully added to the
		database.	droid app.	to the database.	database.
SE-F-022	FR4	User allowed to add	Enter Species Details to	States that plant details	Plant details success-
		Species Details.	the database via an-	are successfully added	fully added to the
			droid app.	to the database.	database.
SE-F-023	${ m FR4}$	User not allowed to en-	Enter invalid Species	App states that the de-	Does not enter to
		ter invalid Species De-	Details to the database	tails entered are invalid.	database. Returns to
		tails to the database.	via android app.		input page.
SE-F-024	FR4	User allowed to add a	Enter a plant picture	States that plant pic-	Plant picture success-
		picture of a plant to the	to the database via an-	ture is successfully	fully added to the
		database.	droid app.	added to the database.	database.
SE-F-025	FR6	Application should	Attempt to do SE-F-	Pop-up states that	Successfully sends
		know whether it is con-	004/5/7/10 whilst con-	records successfully	records to the database.
		nected to the internet,	nected to the internet.	sent to the database.	
		and that it is able to			
		send records to the			
		database. If not, the			
		data is stored in local			
		storage.			

SE-F-026	FR6	SE-F-026 FR6 Application should	Attempt to	SE-F-	should Attempt to SE-F- Pop-up states that the Stores the records on lo-	Stores the records on lo-
		know whether it is con-	004/5/7/10	whilst	whilst app is not connected to al storage.	cal storage.
		nected to the internet,	not connected	to the	not connected to the the internet and that	
		and that it is able to internet.	internet.		the records were stored	
		send records to the			in local storage.	
		database. If not, the				
		data is stored in local				
		storage.				

2.2 Website User

Individual Module Testing will be left to the coder, and tests should be written before the coding is done.

Test Ref	Req	Test Content	Input	Output	Pass Criteria
SE-F-030	FR8	Editing reserve with one	Grid reference change.	Reserve grid reference	Reserve data is able
		value changed		should updated	to be edited providing
SE-F-031	FR8	Edit all of the values of	All data changed to new	Reserve data should be	Reserve data is able
			valid data.	updated	to be editted providing
					valid data.
SE-F-032	FR8	Edit reserve with blank	Remove data for one	Reserve should not up-	Reserve data is able
		field	field and submit.	dated	to be editted providing
					valid data and all fields
					filled.
SE-F-033	FR8	Add reserve name	Input reserve name for	Reserve name added	Reserve data is able
			field.		to be added providing
					valid data and all fields
					filled.
SE-F-034	FR8	Add OS grid reference	Input 8 digit OS grid	Grid reference should	Reserve data is able
			reference.	be added	to be added providing
					valid data and all fields
					filled.
SE-F-035	FR8	Add reserve description	Input reserve descrip-	Description is added	Reserve data should be
			tion.		able to be added pro-
					viding valid data and all
					fields filled.
SE-F-036	FR9	View reserve specimens	Click on view reserve	User is taken to the	Specimens that are con-
			button.	plant specimens page	tained within reserve
				where only the reserve	are displayed.
				specimens contained	
				within the reserve are	
				displayed	
				-	

SE-F-037	EF1	Authentication	Log in using correct	Authentication session	Password session is cre-
			password.	should be created giv-	ated and a successful
				ing user administrative	login message is dis-
				privileges. A message	played.
				should displays valid	
				password.	
SE-F-038	EF1	Authentication Error	Log in using incorrect	A message should	Password session is not
			password.	displays incorrect	created, and incorrect
				password.	login message is dis-
					played.
SE-F-039	EF1	Authentication logout	Logout link is clicked.	Session should be de-	Session is destroyed and
				stroyed and login mes-	login message is dis-
				sage is displayed.	played.
SE-F-040	EF1	Authentication granted	User has successfully	User should be given ac-	Session is destroyed and
		privileges	logged on	cess to delete remove	login message is dis-
				and add specimens and	played.
				reserves.	
SE-F-041	EF2	Add species name	Input species name	Species name should be	Species name is added
				added to the record	to the species record.
SE-F-042	EF2	Add species location	User selects a reserve lo-	Reserve is identified	Once reserve is selected,
			cation	with the species	the specimen should be
					identified with the re-
					serve.
SE-F-043	EF3	Add specimen abun-	User selects a abun-	Abundance is recorded	Abundance from the
		dance	dance according to the	to the specimen	DAFOR scale should
			DAFOR scale		recorded to the speci-
					men .
SE-F-044	EF3	Add comment	User inputs comment	The comment is	Comment should be
				recorded	recorded to the speci-
					men .

SE-F-045	EF3	No comment	No input	Comment is left as	Specimen comment
				NULL	should be left null.
SE-F-046	EF3	No image	No images are inputted	Image is not uploaded	Specimen should be
				for the specimen	recorded without an
					image .
SE-F-047	EF3	PNG image	PNG image is uploaded	PNG image is uploaded	PNG image should be
					recorded to the speci-
					men .
SE-F-048	EF3	GIF image	GIF image is uploaded	GIF image is uploaded	PNG image should be
					recorded to the speci-
					men .
SE-F-049	EF3	JPEG image	JPEG image is up-	JPEG image is up-	JPEG image should be
			loaded	loaded	recorded to the speci-
					men .
SE-F-050	EF3	Non-image type	txt file is uploaded	file is not uploaded	File should be not up-
					loaded .
SE-F-051	EF4	Delete specimen	Delete specimen button	Specimen is deleted	Once clicked, the speci-
			is clicked		men should be deleted.
SE-F-052	EF4	Edit specimen	Specimen field is edited	Specimen field in ques-	Specimen field is edited
				tion is edited	and should be recorded
					to the specimen ID.
SE-F-053	Features	Simple search bar	Inputted species name	User is taken to the	Once submitted, user
				specimen page with re-	should be shown spec-
				sults displayed	imens that match the
					search criteria.
SE-F-054	Features	Advanced search bar	Species name with	Results with specimen	Search results should be
		with species name op-	species selected	name displayed	displayed with match-
		tion selected			ing criteria displayed
					only.

SE-F-055	Features	Advanced search bar with location option se-	search bar The location input with Results with inputted nontion se- location option selected location displayed	Results with inputted location displayed	Search results with matching criteria dis-
		lected	7)		played only.
SE-F-056	Features	Advanced search bar	search bar Recording date input Results matching input	Results matching input	Search results with
		with date option se-	with date option se-	and option displayed	matching criteria dis-
		lected	lected		played only.
SE-F-57	Species sorting	Each sorting option se-	Sorting option is se-	Table results are dis-	Once the sorting
		lected	lected with sorting cri-	played and sorted to the	method is chosen,
			teria	matching criteria	the results should be
					sorted.
SE-F-058	Features	Google Map	Correct latitude and Map displays location		Google map should
			longitude	on a Google maps	show the location of the
					specimen.
SE-F-059 Features	Features	Google Map	Incorrect latitude and Map displays nothing	Map displays nothing	Google map should
			longitude		show the location of the
					specimen.

2.3 Server

Individual Module Testing will be left to the coder, and tests should be written before the coding is done.

	1est Content Input		Output	Pass Criteria
FR7 FR7 FR7 FR7	Valid	JSON-formatted	Returns status code 200	Status code 200 OK and
FR7 FR7 FR7 FR7	id record via record via POST	T.	OK and ID of the record	record present in the
FR7 FR7 FR7 FR7				database
FR7 FR7 FR7	not allow an Invalid	JSON-	Returns status code 400	Status code 400 and
FR7 FR7 FR7 FR7	f an invalid formatted	record		record not present in
FR7 FR7 FR7	a POST re- via POST			the database
FR7 FR7 FR7 FR7				
FR7 FR7 FR7	ws an addi- A binary file via POST	ia POST	Returns status code 200	Status code 200 OK and
FR7 FR7 FR7	resource via		OK and ID of the re-	file present on server
FR7 FR7 FR7	quest		source	
FR7 FR7 FR7	ws client to A POST request with	lest with	Returns status code	Status code 200 OK and
FR7 FR7	men with a the desired ID specified	specified	200 OK and a JSON-	a valid JSON-formatted
FR7 FR7	pecimen ID		formatted specimen	specimen
FR7 FR7 FR7	xist			
FR7 FR7	s not allow A POST request with	est with	Returns status code 400	Status code 400, noth-
FR7 FR7	o get a spec- $ $ the desired ID specified	specified		ing returned
FR7	a specified			
FR7 FR7	D that does			
FR7				
get a file resc a specified re that exists FR7 Server does the client to g source with a	ws client to A POST request with	lest with	Returns status code 200	Status code 200 OK and
a specified re that exists FR7 Server does the client to g source with g	esource with the desired ID specified	specified	OK and a file	the desired file
FR7 Server does the client to go source with a real to go the client to go	resource ID			
FR7 Server does the client to g source with				
50 00	s not allow A POST request with	lest with	Returns status code 400	Status code 400 no file
CO	get a file re- the desired ID specified	specified		returned
	ı a specified			
resource ID that doe) that does			
not exist				

077	SE-F-077 FR7	Server allows client to	A POST request with	Returns status code 200	Status code 200 OK and
		get a number of speci-	desired offset and range	OK, desired number of	an array of valid speci-
		mens based on a speci-		specimens starting from	mens, limited by desired
		fied offset and range		desired offset are re-	range and offset
				turned as a valid JSON-	
				formatted specimen	
SE-F-078	FR7	Server allows client to	A POST request with	Returns status code 200	Status code 200 OK and
		get a number of speci-	desired search value and	OK, only desired spec-	an array of valid speci-
		mens based on a spec-	search type	imens based on search	mens, limited by search
		ified search value by		value and search type	value and search type
		name, user, location, re-		are returned as a valid	
		serveID		JSON-formatted speci-	
				men array	
SE-F-079	FR7	Server allows client to	A POST request with	Returns status code	Status code 200 OK and
		get a number of speci-	desired search value and	200 OK, only desired	an array of valid speci-
		mens based on a spec-	search type and speci-	specimens based on	mens, limited by search
		ified search value by	fied reserveID	search value, search	value, search type and
		name, user, location		type and reserveID	reserveID
		and searched by re-		are returned as a	
		serveID		valid JSON-formatted	
				specimen array	
SE-F-080	FR7	Server allows client to	A POST request with	Returns status code 200	Status code 200 OK and
		get a number of spec-	desired order method	OK, all specimens or-	an array of valid spec-
		imens ordered by as-	and order type	dered by desired order	imens, ordered by de-
		cending or descending		method and order type	sired order type and or-
		and values name, user,		are returned as a valid	der value
		abundance, location		JSON-formatted speci-	
				men array	

SE-F-081 FR7	FR7	Server allows client to A POST request with	A POST request with	Returns status code 200	Status code 200 OK
		get a number of speci-	desired search value,	OK, only desired spec-	and an array of valid
		mens based on a spec-	search type, order	imens based on search	specimens, limited by
		ified search value by	method and order value	value and search type	search value and search
		name, user, location, re-		are returned as a valid	type, ordered by order
		serveID and ordered by		JSON-formatted speci-	method and order type
		ascending or descending		men array ordered by	
		and values name, user,		desired order type and	
		abundance, location		order value	
SE-F-082	FR7	Server allows client to	A POST request with	Returns status code	Status code 200 OK
		get a number of speci-	desired search value,	200 OK, only desired	and an array of valid
		mens based on a spec-	search type, reserveID,	specimens based on	specimens, limited by
		ified search value by	order method and order	search value, search	search value and search
		name, user, location	value	type and reserveID	type, ordered by order
		and searched by re-		are returned as a valid	method and order type
		serveID and ordered by		JSON-formatted spec-	
		ascending or descending		imen array ordered by	
		and values name, user,		desired order type and	
		abundance, location		order value	
SE-F-083	FR7	Server allows client to	A POST request with	Returns status code	Status code 200 OK and
		get a number of speci-	the desired location	200 OK and a JSON-	an array of valid rele-
		mens, filtered by record	name specified	formatted array of	vant records with same
		location name		relevant records found	or similar location name
SE-F-084	FR7	Server allows client to	A POST request with	Returns status code 200	Status code 200 OK and
			the desired specimen ID	OK	the specimen is removed
		imen with a specified	to be deleted		from the database
		valid specimen ID			

Server does not allow A POST request with Returns status code 400 Status code 400 and	the specimen is not	removed from the	database		00 Status code 200 OK and	specimen is changed in	the database		SE-F-087 FR7 Server does not allow A POST request with Returns status code 400 Status code 400 and	specimen is not changed	in the database		00 Status code 500 and no	data is affected in the	database	
Returns status code 40					Returns status code 20	OK			Returns status code 40				Returns status code 500			
A POST request with	the desired specimen ID	to be deleted			A POST request with	the desired ID and a	JSON-formatted speci-	men	A POST request with	the desired ID and a	JSON-formatted speci-	men	A POST request with	malicious data		
	client to remove a spec-	ified specimen with a	specified specimen ID	that is invalid	Server allows client to A POST request with Returns status code 200	edit a specified spec-	imen with a specified	valid ID	Server does not allow	client to edit a specified the desired ID and a	specimen with a speci-	fied invalid ID	Server does not allow A POST request with	client to enter any ma-	licious data into the	database
					FR7				FR7				FR7			
SE-F-085 FR7					SE-F-086 FR7				SE-F-087				SE-F-088			

3 Test Result Reporting

3.1 Report

Details of test results are to be maintained in the group github, under TestReports. Module tests are to be maintained in the ModuleTests folder, and System tests in the SystemTests folder.

4 Refrences

4.1 Refrence

- General Documentation Standards : C. J. Price, N.W.Hardy & B.P.Tiddeman (2014-09-23) SE.QA.03 1.7
- \bullet Test Procedure Standards : C. J. Price, N.W.Hardy and B.P.Tiddeman (2014-09-23) SE.QA.06 1.8

5 Document History

Version	Edit	Date	Persons
0.1	Initial Version	November 10 2014	nid21
0.2	Review and moving inline with template	November 28 2014	nid21
0.3	Updated spec for changed API methods	January 22 2015	msh4
0.4	Updated with more detailed Android Tests	November	nid21
1.0	Release	Febuary 16 2015	nid21