

Function Name	Test ID	Description	Status	Test Data 1	Test Data 2	Test Data 3	Test Data 4	Test Data 5	Expected output	
login		These Tests Test the login function and checks if it returns a user as an output		Username	Password					
	customerlogin01	The username is right and password is wrong, should return null	PASS	admin	admin				NULL	
	customerlogin02	The username is wrong and password is right, should return null	PASS	admin1	password				NULL	
	customerlogin03	The username is wrong and password is wrong, should return null	PASS	admin1	admin1				NULL	
	customerlogin04	The username is right and password is right, should return the user	PASS	admin	password				USER	
login		Checks if if an owner can login		Username	Password					
	ownerlogin01	The username is right and password is wrong, should return null	PASS	Ownertest	password				NULL	
	ownerlogin02	The username is wrong and password is right, should return null	PASS	Ownertest1	1234				NULL	
	ownerlogin03	The username is wrong and password is wrong, should return null	PASS	Ownertest1	password				NULL	
	ownerlogin04	The username is right and password is right, should return the user	PASS	Ownertest	1234				OWNER	
register		Checks if bad input will pass through validation checks		Username	Password	Name	Address	Phone Number		
	customerregister01	All details are valid but the username already exists in the database, returns null	PASS	Ownertest	password	Russell	12 Melbourne	03987656789	NULL	
	customerregister02	All details are valid, creates the user in the database	PASS	admin	password	Russell	12 Melbourne	03987656789	USER	
	customerregister03	All details are valid but the name, returns null	PASS	admin	password	Russell1234	12 Melbourne	03987656789	NULL	
	customerregister04	All details are valid but the address, returns null	PASS	admin	password	Russell	Fake888***	03987656789	NULL	
	customerregister05	All details are valid but the phone number, returns null	PASS	admin	password	Russell	12 Melbourne	abcd	NULL	
addEmployee		Checks if bad input will pass through validation checks		Name	Phone Number	Address				
	addemployeeest01	All details are valid but the name, returns false	PASS	Fred1234	03123456789	12 Melbourne			FALSE	
	addemployeeest02	All details are valid but the phone number, returns false	PASS	Fred	asdf	12 Melbourne			FALSE	
	addemployeeest03	All details are valid but the address, returns false	PASS	Fred	03123456789	Melbourne			FALSE	
	addemployeeest04	All details are valid, creates the employee in the database, returns true	PASS	Fred	03123456789	12 Melbourne			TRUE	
getEmployeeBookingAvailability										
	getEmployeeBookingAvailability01	Get employee booking availability for employee 0 after 0.	PASS							
	getEmployeeBookingAvailability02	Get employee booking availability for employee 3 after 0.	PASS							
	getEmployeeBookingAvailability03	Get employee booking availability for employee 3 after 2147410000.	PASS							
getWorkingTimes										
	getWorkingTimes01	get working times for employee 1	PASS							
	getWorkingTimes02	get working times for employee 2	PASS							
	getWorkingTimes03	get working times for employee 3	PASS							
	getWorkingTimes04	get working times for non-existent employee '-1', should return null	PASS							
	getWorkingTimes05	get working times for non-existent employee '10', should return null	PASS							
addEmployee										
	addEmployeeTest01	Add employee with no owner	PASS							
	addEmployeeTest02	Add employee with invalid phone number	PASS							
	addEmployeeTest03	Add employee with no username	PASS							
	addEmployeeTest04	Add employee with invalid username	PASS							
	addEmployeeTest05	Add employee with no address	PASS							
	addEmployeeTest06	Add valid employee	PASS							
addWorkingTime										
	addWorkingTime01	Add a working time where the end time is before the start time	PASS							
	addWorkingTime02	Add a working time of duration 0	PASS							
	addWorkingTime03	Add a working time with a negative start time	PASS							
	addWorkingTime04	Add a valid working time	PASS							
removeBooking										
	removeBookings01	Remove a non-existent booking	PASS							
	removeBookings02	Remove a booking without a business	PASS							
	removeBookings03	Remove a booking that does exist	PASS							
	removeBookings04	Remove a booking with an invalid id	PASS							
	removeBookings05	Remove a booking with a valid id	PASS							
addService										
	addService01	Add service with an invalid name	PASS							
	addService02	Add a service that already exists	PASS							
	addService03	Add a service with a negative duration	PASS							
	addService04	Add a service with a negative cost	PASS							
	addService05	Add a valid service	PASS							
	addService06	Add a service with a duration that isn't dividable by 30	PASS							
addNewBooking										
	addNewBooking01	Add a valid booking	PASS							

[illegible]

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searchUser				Username					
	searchUser1	Check if the user does not exist in the database will return null	PASS	Ownertest123					null
	searchUser2	Check if Owner exists in the database and login	PASS	Ownertest					OWNER
	searchUser3	Check if correct user is being returned	PASS						
	searchUser4	Check if correct user is being returned	PASS						
	searchUser5	Check that the user does not exist	PASS						
	searchUser6	Check that the user does not exist	PASS						
addEmployee									
	addEmployee1	employee added doesn't share timetable with another employee	PASS						
	addEmployee2	valid employee	PASS						
	addEmployee3	add employee with duplicate id	PASS						
	addEmployee4	add employee with a non-existent business	PASS						
	addEmployee5	valid employee	PASS						
getAllServices									
	getAllServices1	check length of list	PASS						
	getAllServices2	check that all the services exist in the list	PASS						
addNewBooking									
	addNewBooking1	Add a valid booking	PASS						
	addNewBooking2	add a booking in the same slot as the last booking	PASS						
	addNewBooking3	Add a booking in an invalid slot	PASS						
	addNewBooking4	Add a booking right after another booking ends	PASS						
	addNewBooking5	Add a booking with a non-existent customer	PASS						
	addNewBooking6	Add a booking with a non-existent employee	PASS						
	addNewBooking7	Add a booking with a non-existent service	PASS						
getAvailableTimes									
	getAvailableTimes1	get available times for employee of id 0	PASS						
	getAvailableTimes2	get available times for employee of id 1	PASS						
	getAvailableTimes3	get available times for employee of id 2	PASS						
	getAvailableTimes4	get available times for employee of id 3	PASS						
	getAvailableTimes5	get available times for employee of id 4	PASS						
	getAvailableTimes6	get available times for employee of id 5	PASS						
addShift									
	addShift1	Add shift where end time is before the start time	PASS						
	addShift2	Add shift of duration 0, should not pass	PASS						
	addShift3	Add shift with a negative start time (Allows start time to go into previous day)	PASS						
	addShift4	Add a valid shift	PASS						
removeBooking									
	removeBooking1	remove booking with negative id	PASS						
	removeBooking2	remove booking without specifying business	PASS						
	removeBooking3	remove booking with valid details	PASS						
	removeBooking4	remove booking with non-existent id	PASS						
	removeBooking5	remove booking with id 0	PASS						
getEmployeeBookingAvailability									
	getEmployeeBookingAvailability1	Get all booking availability slots which are available for employee 0	PASS						
	getEmployeeBookingAvailability2	Get all booking availability slots which are available for employee 3	PASS						
	getEmployeeBookingAvailability3	Get all bookings on or after 2147410000 for employee 3, which should be none	PASS						
	getEmployeeBookingAvailability4	Get all bookings on or after 1497522600 for employee 3, which should be 1	PASS						
	getEmployeeBookingAvailability5	Only booking available after 1497522600 for employee 3 should start at 1497508200	PASS						
	getEmployeeBookingAvailability6	Get all bookings on or after 1497522601 for employee 3, which should be none	PASS						
getShift									
	getShift1	get shifts of employee of id 0	PASS						
	getShift2	get shifts of employee of id 1	PASS						
	getShift3	get shifts of employee of id 2	PASS						
getEmployeeList									
	getEmployeeList1	Check the length of the list	PASS						
	getEmployeeList2	Check that all employees exist in order	PASS						
	getEmployeeList3	Check that the list exists	PASS						
getAllCustomers									
	getAllCustomers1	Check the length of the list	PASS						

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	getAllCustomers2	Check that all customers exist in order	PASS						
	getAllCustomers3	Check that the list exists	PASS						
getBookingsAfter									
	getBookingsAfter1	Get bookings after 0, there should be 8	PASS						
	getBookingsAfter2	Get bookings after 1497506400, there should be 8	PASS						
	getBookingsAfter3	Get bookings after 1497558600, there should be at least 1	PASS						
	getBookingsAfter4	Get bookings after 1497558601, should return null	PASS						
	getBookingsAfter5	Get bookings after 1497558599, there should be at least 1	PASS						
	getBookingsAfter6	Get bookings after 1497506401, there should be 7	PASS						
getEmployeeAvailability									
	getEmployeeAvailability1	Make sure that available bookings match expected for employee 0	PASS						
	getEmployeeAvailability2	Make sure that available bookings match expected for employee 1	PASS						
	getEmployeeAvailability3	Make sure that available bookings match expected for employee 2	PASS						
addCustomer									
	addCustomer1	Add valid customer	PASS						
	addCustomer2	Add customer with invalid username	PASS						
	addCustomer3	Add customer with invlaid phone number	PASS						
	addCustomer4	Add valid customer	PASS						
	addCustomer5	Add customer without a password	PASS						
	addCustomer6	Add customer without a username	PASS						
authenticate									
	authenticate1	Authenticate with correct details	PASS						
	authenticate2	Authenticate with correct details	PASS						
	authenticate3	Authenticate with correct details	PASS						
	authenticate4	Authenticate with incorrect username	PASS						
	authenticate5	Authenticate with incorrect password	PASS						
	authenticate6	Authenticate without any details	PASS						

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convertSecondsToDay()		Checks the conversion of seconds to days		Seconds					
	testConvertSecondsToDay1	Checks if it converts to tuesday	PASS	86401					TRUE
	testConvertSecondsToDay2	Checks if it converts to monday	PASS	86399					TRUE
	testConvertSecondsToDay3	Checks if it converts to friday	PASS	345600					TRUE
	testConvertSecondsToDay4	Checks if it converts to tuesday	PASS	90000					TRUE
	testConvertSecondsToDay5	Checks if it converts to tuesday	PASS	100000					TRUE
	testConvertSecondsToDay6	Checks if it converts to Sunday	PASS	604799					TRUE
	testConvertSecondsToDay7	Checks if it converts to Monday	PASS	1					TRUE
convertDayToSeconds()				Day String					
	testConvertDayToSeconds1	Checks if it converts to 0	PASS	Monday					TRUE
	testConvertDayToSeconds2	Checks if it converts to 86400	PASS	Tuesday					TRUE
	testConvertDayToSeconds3	Checks if it converts to 172800	PASS	Wednesday					TRUE
	testConvertDayToSeconds4	Checks if it converts to 259200	PASS	Thursday					TRUE
	testConvertDayToSeconds5	Checks if it converts to 345600	PASS	Friday					TRUE
	testConvertDayToSeconds6	Checks if it converts to 518400	PASS	Sunday					TRUE
	testConvertDayToSeconds7	Checks if it converts to 0	PASS	Not a valid day					TRUE
checkIsValidWeekday()									
	checkValidDay1	Checks if "Monday" is a valid day	PASS						TRUE
	checkValidDay2	Checks if "Sunday" is a valid day	PASS						TRUE
	checkValidDay3	Checks if "WEDNESDAY" is a valid day	PASS						TRUE
	checkValidDay4	Checks if "friday" is a valid day	PASS						TRUE
	checkValidDay5	Checks if "MON" is a valid day	PASS						FALSE
	checkValidDay6	Checks if "Saturday" is a valid day	PASS						FALSE
get24HrTimeFromWeekTime()									
	testConvertTimeTo24hrTime1	Check if 60 seconds is equal to 1 day	PASS						TRUE
	testConvertTimeTo24hrTime2	Check if 3600 seconds is equal to 1 day	PASS						TRUE
	testConvertTimeTo24hrTime3	Check if 86399 seconds is equal to 1 day	PASS						TRUE
	testConvertTimeTo24hrTime4	Check if 86340 seconds is equal to 1 day	PASS						TRUE

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mergeTimetable()	Checks to see if it merges 2 timetables together			Timetable 1	Timetable 2					
	mergeTimetable1	Checks the merging of and empty timetable and filled timetable	PASS	"Empty"	90000,93600 97200,100600 21600,43200				TRUE	
	mergeTimetable2	Checks the merging of 2 tables with contradicting times	PASS	93500,97300	90000,93600 97200,100600 21600,43200				TRUE	
	mergeTimetable3	Checks the merging of 2 tables with contradicting times	PASS	90000,93600 972	93500,97300 21600,43200				TRUE	
	mergeTimetable4	Checks the merging of 2 tables with different times	PASS	21600,43200	90000,93600 97200,100600				TRUE	
	mergeTimetable5	Checks the merging of 2 tables with different times, only one period each	PASS	90000,93600	21600,43200				TRUE	
	mergeTimetable6	Checks the merging of 2 tables with different times, only one period each	PASS	40000,43600	91600,123200				TRUE	
addPeriod()	Adds periods to a timetable			Period 1	Period 2					
	addPeriod1	Checks to see if the new period is added to an empty timetable	PASS	90000,93600					TRUE	
	addPeriod2	Checks to see if the new period is added to an empty timetable	PASS	40000,43600					TRUE	
	addPeriod3	Checks to see if the new period is added to a timetable with a period in it	PASS	90000,93600	40000,43600				TRUE	
	addPeriod4	Checks to see if the new period is added to a timetable with a period in it	PASS	40000,43600	90000,93600				TRUE	
addPeriod()	Removes periods to a timetable			Period 1	Period 2	Time Table				
	removePeriod1	Checks to see if the period is removed from the timetable	PASS	90000,93600		90000,93600 40000,43600			TRUE	
	removePeriod2	Checks to see if the period is removed from the timetable	PASS	40000,43600		90000,93600 40000,43600			TRUE	
	removePeriod3	Checks to see if the all periods are removed from the timetable	PASS	90000,93600	40000,43600	90000,93600 40000,43600			TRUE	
	removePeriod4	Checks to see if it returns false if trying to remove a period that is not there	PASS	40000,43600	90000,93600				TRUE	
toStringArray()	Checks the output of the function to ensure its in the right format			Timetable						
	toStringArray	Runs the methods and iterates through the elemets of the array checking each of them	PASS	90000,93600 97200,100600 21600,43200					TRUE	