

Task 2: Test log

Description of test	Test data to be used (if required)	Expected outcome	Actual outcome	Comments and intended actions
Testing DB Connect Script to see if the Connection Works	N/a	"connected Successfully" will appear on screen when function is called	"connected Successfully" appears on screen when function is called	N/A
Test to see if I can get to the Sudoer Creation Page	N/A	Load to sudo user page as no sudo user exists yet	Redirected to dashboard every time I try to get to the super user page	Investigate "sudo_check" function for what is causing the constant redirect (See Appendix Fig 1)
RE-Test to see if I can get to the sudoer page	N/A	Load to sudo user page as no sudo user exists yet	Load to sudo user page as no sudo user exists yet	N/A
Test the valid email function on upper user creation (incorrect)	Email: bob@RTEK.co.uk Password: B0b99!!!	Bounce back to the creation screen again because the email is incorrect. relevant error message to show too	Page reloads into a 404 error not found instead of giving the error message out and reloading the page	Find cause of 404 error that stops page from resetting like it should be
Test the valid email function on upper user creation (incorrect)	Email: bob@RTEK.co.uk Password: B0b99!!!	Bounce back to the creation screen again because the email is incorrect. relevant error message to show too	Bounce back to the creation screen again because the email is incorrect. relevant error message to show too	Didn't work due to functions being called non-hierarchically leading to issues around them not working correctly, refactored ordering and retried (see fig 2)

Test the actual creation of a super user	Email: steve@rtech.co.uk Password: Steve123@#	Create user into database and then relocate the end user to the admin login screen	Create user into database and then relocate the end user to the admin login screen	Need to quickly check why adm type is "null" and reconcile it appropriately
Now that a super user is created ensure another one cannot be made	Email: sbeve@rtech.co.uk Password: Sbeve123@#	Kicks user to admin login and tells them there is already a super user	Allows user to create a new super admin on the "one time" screen.	Related to the issue regarding the type null. To be addressed ASAP (refer back to fig 3) now fixed by refactoring the code and database to utilise a separate method
Now that a super user is created ensure another one cannot be made	Email: sbeve@rtech.co.uk Password: Sbeve123@#	Kicks user to admin login and tells them there is already a super user	Doesn't Allow user to even see the page and instead redirects them to an incorrect page	Change page relocation to the appropriate page and retry
Register a new admin as a sub admin	Email: sbeve@rtech.co.uk Password: Sbeve123@#	Registers the new user and then redirects to admin dashboard	Registers the new user and then redirects to admin dashboard	Problem was regarding post variable names being incorrectly named across 2 blocks of code creating a block in the ability to actually register new users. Corrected and worked amazingly
Register as a user	Email : seiko5@gmail.com Password: Seiko123@#	Register new user and repoint to login screen	Calls constant password error regardless of what is entered	Issue was surrounding how I had built my database insert for a new user, I had mis ordered my fields and was inserting the hashed password into the username field
Register as a user	Email : seiko5@gmail.com Password: Seiko123@#	Register new user and repoint to login screen	Register new user and repoint to login screen	Issue fixed by refactoring my database insert to send the correct data to the correct fields.

Login as a user	Email : seiko5@gmail.com Password: Seiko123@#	Login successfully and repoint to the dashboard	Login successfully and repoint to the dashboard	N/A
Login as a staff member	Email: steve@rtech.co.uk Password: Steve123@#	Tell the staff member that they are using a company domain email and need to go to the staff login (and redirect)	Doesn't find the admin as its searching a different table	Not a planned function but a step in the right direction, to do the same for register and ensure staff cannot register as users under company emails
Register on the user system with a staff/admin email	Email: steve@rtech.co.uk Password: Steve123@#	Tell the staff member that they are using a company domain email and need to use a personal address to sign up	Allows staff member to sign up on the user registration.	Doesn't cause any functional issues as different tables are queried for an admin action. to add the valid email check on registration to disallow staff reg (FIG4)
If logged in as an "admin" but not a "super", am I blocked from adding new admins	Email: sbeve@rtech.co.uk Password: Sbeve123@# Adm_type: "admin"	The option should not be there on the nav bar as they do not have "super" BUT Redirect the admin away from the page as they do not have the appropriate permission.	The option not there on the nav bar as they do not have "super"	Works as intended thanks to the nav bar conditions. (fig 5)
VERSION 1 END , VERSION 2 START	VERSION 1 END , VERSION 2 START	VERSION 1 END , VERSION 2 START	VERSION 1 END , VERSION 2 START	VERSION 1 END , VERSION 2 START

Test Staff Adding Page , can admin "super" add a staff member	Email: SuperStaffTest@rtech.co.uk Password: Test123@#	Register a staff member in the staff table because super user has privilege to do everything	Redirects successfully with no error message but staff member does not appear in database	Posting an incorrect variable name causing empty field in insert statement and nullifying successfullness (fig6)
Test Staff Adding Page , can admin "super" add a staff member	Email: SuperStaffTest@rtech.co.uk Password: Test123@#	Register a staff member in the staff table because super user has privilege to do everything	Registered Staff member in table	Had 2 variables being posted incorrectly leading to a massive mess up
Test if an "admin" can add a new staff member . should be able to add	Email: AdminStaffTest@rtech.co.uk Password: Test123@#	Register as the admin has high enough "privacc" to do it	Worked effectively as expected	Admin type always had privilege to access the page but the nav bar was not configured to show it, refactored nav bar accordingly
Test adding new staff members where the email address does not align with the valid_email function	Email: EmailTest@gmail.com Password: Test123@#	Bounce User as not correct credentials	Allows user to be registered	Redefine how valid_email works and implement it properly into the reg_staff function (fig7)
Test adding new staff members where the email address does not align with the valid_email function	Email: EmailTest2@yahoo.in Password: Test123@#	Bounce credentials now valid email has been implemented to the parameter	Allows user to be registered but doesn't pass email	Valid email function not properly implemented and causing it to not be passed to the database but the user still be allowed in (fig 8)
Test adding new staff members where the email address does not align with the	Email: EmailTest3@blueyonder.tv Password:	Properly bounce incorrect credentials now	Registers email even when it doesn't meet the email criteria	Going to take the snippet to AI to assist in finding a fix (Fig 9)

valid_email function	Test123@#			
Test adding new staff invalid Email	Email: EmailTest3@blueyonder.tv Password: Test123@#	Bounce the staff addition to the database	Bounces Staff addition to database	Realised how much easier it would be for me to just create an if statement than faff with single line (FIG10)
Test email that meets constraints	Email: StaffTest@rtech.co.uk Password: Test123@#	Add the staff member as their email meets the constraints	Added the staff member as their email meets the constraints	Works Correctly now (fig 11)
Test Appointment Booking	Date: 01/04/25 Time: 11:00 Type: Consultation Staff Member: Consultation Test Product: Solar Panels	Commit the booking to the database and repoint the user to the dashboard	Throw error about booking type table (FIG12)	Investigate issue and possibly remove booking_types references in codebase due to database refactor possibly not matching the codebase now.
Test Appointment Booking	Date: 01/04/25 Time: 11:00 Type: Consultation Staff Member: Consultation Test Product: Solar Panels	Commit the booking to the database and repoint the user to the dashboard	Throws error about user_id being null, possibly because of misnaming of variables (FIG13)	Investigate issue and ensure consistent naming convention and casing.

Test Appointment Booking	Date: 01/04/25 Time: 11:00 Type: Consultation Staff Member: Consultation Test Product: Solar Panels	Commit to database after fixing all errors and post user back to dashboard.php	Throws error around types in database being different to variable types (FIG14)	Change type of variable in the table to be varchar(255) and remove Foreign Key constraint / relationship to booking_types table as well as delete the booking_types as earlier discussed
Test Appointment Booking	Date: 01/04/25 Time: 11:00 Type: Consultation Staff Member: Consultation Test Product: Solar Panels	Commit to database after fixing all errors and post user back to dashboard.php	Commit to database after fixing all errors and post user back to dashboard.php	Having Fixed all errors the codebase now correctly inserts a record into the database
Test Appointment booking with wrong staff – appt type	Date: 01/04/25 Time: 11:00 Type: Installation Staff Member: Consultation Test Product: Solar Panels	Not allow the booking to be made as the specialism doesn't match the type of booking	Not allow the booking to be made as the specialism doesn't match the type of booking	(FIG15) I can logically expect all the possible combinations to act accordingly to my sample tests as the brunt of the work is done in a function.
Testing Nav Bar	Pressing buttons – every button on every page	Each button repoints to its appropriate referenced location with no errors	Each button repoints to its appropriate referenced location with no errors	N/A

Add more rows and tables as required.

Appendix

Fig 1

```
1 usage
function sudo_check($conn){ //This code has been replaced by a piece of code tweaked by AI as i could not produce a working solution
    try {
        $sql = "select adm_type from admins where adm_type = '1'"; // pre define the SQL query to check for a specific entity
        $stmt = $conn->prepare($sql); // prepare statement for usage
        $stmt->execute(); // runs the statement
        $result = $stmt->setFetchMode(PDO::FETCH_ASSOC); // fetches result back
        if ($result){
            return true;
        } else{
            return false;
        }
    }
    catch(PDOException $e){ // catch the error as it occurs
        error_log( message: "error in super_checker" . $e->getMessage());
        // throw an exception
        throw $e;
    }
}
```



```
function sudo_check($conn){  
    try {  
        $sql = "SELECT adm_type FROM admins WHERE adm_type = '1'"; // pre define the SQL query to check for a specific entity  
        $stmt = $conn->prepare($sql); // prepare statement for usage  
        $stmt->execute(); // runs the statement  
  
        // Actually fetch the results  
        $result = $stmt->fetch(PDO::FETCH_ASSOC);  
  
        // Check if any rows were returned  
        if ($result) {  
            return true; // Superuser exists  
        } else {  
            return false; // No superuser found  
        }  
    }  
    catch(PDOException $e){ // catch the error as it occurs  
        error_log("message: 'error in super_checker' . $e->getMessage());  
        // throw an exception  
        throw $e;  
    }  
}
```

Fig 2

Rtech Admin one time registration

ERROR: SUPER REG ERROR: Email Incorrect Format

This is a one time registration for Rtech system

Email
Password
Confirm Password

Register

Fig 3

	adm_id	email_address	password	adm_type
1	steve@rtech.co.uk	\$2y\$10\$xrBNuE9Jmhve7Jlr34uOOWHdvakAFBAbpOCKwclpnV...		NULL

Fig 4

User Login

SUCCESS: steve@rtech.co.uk USER REGISTERED

steve@rtech.co.uk

●●●●●●●●

Login

Fig 5

:: [Home](#) :: [Add Booking](#) :: [Update Staff Details](#) :: [Logout](#) ::

welcome to admin dashboard

1

Fig 6

```

if(reg_staff(dbconnect_insert(),$_POST)) { // $conn is database connection
    $_SESSION['SUCCESS'] = $_POST['role']." STAFF REGISTERED";
    header( header: "Location: admin_dashboard.php");
    exit; // Stop further execution
} else {
    $_SESSION['ERROR'] = "ADD STAFF FAIL, UNKNOWN ERROR";
    header( header: "Location: admin_dashboard.php");
    exit; // Stop further execution
}

catch(Exception $e) {
    // Handle database error within reg_admin or here.
    $_SESSION['ERROR'] = "STAFF REG ERROR: ". $e->getMessage();
    header( header: "Location: admin_dashboard.php");
    exit; // Stop further execution
}

```

Fig 7



	staff_id	email_address	password	fname	sname	specialty
<input type="checkbox"/>  Edit  Copy  Delete	1	SuperStaffTest@rtech.co.uk	\$2y\$10\$/OQkhzKXWuXJ7.dIZrKcYeB6iyQ43/K8JIHlbKaDSol/...	Super Test	Staff	CONSULTANT
<input type="checkbox"/>  Edit  Copy  Delete	2	AdminStaffTest@rtech.co.uk	\$2y\$10\$8dSBMF2XmV.LI9Tt30JABuJOMityDqQepi.mHjqsM4x...	Admin	Staff Test	INSTALLER
<input type="checkbox"/>  Edit  Copy  Delete	3	EmailTest@gmail.com	\$2y\$10\$gs9IDv5kTzNJmQlfPSTP5.mid6RJHu9DKzu.IUFA2IX...	Email	Test	CONSULTANT

Fig 8

		staff_id	email_address	password	fname	sname	specialty
<input type="checkbox"/>	Edit Copy Delete	1	SuperStaffTest@rtech.co.uk	\$2y\$10\$/OQkhzKXWuXJ7.dIZrKcYeB6iyQ43/K8JIHbKaDSO/...	Super Test	Staff	CONSULTANT
<input type="checkbox"/>	Edit Copy Delete	2	AdminStaffTest@rtech.co.uk	\$2y\$10\$8dSBMF2XmV.LI9Tt30JABuJOMityDqQepi.mHjqsM4x...	Admin	Staff Test	INSTALLER
<input type="checkbox"/>	Edit Copy Delete	3	EmailTest@gmail.com	\$2y\$10\$gs9IDv5kTzNJmQIfPSTP5.mid6RJHu9DKzu.IUFA2IX...	Email	Test	CONSULTANT
<input type="checkbox"/>	Edit Copy Delete	4		\$2y\$10\$.NVWYT71WGld9C8.qwjrBelcl761BCgMewOtSwxMaWq...	Yahoo	Test	CONSULTANT

```
$stmt->bindParam(1, valid_email($_POST['email_address'])); //bind parameters for security
// Hash the password
$hpswd = password_hash($post['password'], algo: PASSWORD_DEFAULT); //has the password
$stmt->bindParam(2, $hpswd);
$stmt->bindParam(3, $post['fname']); //bind parameters for security
$stmt->bindParam(4, $post['sname']); //bind parameters for security
$stmt->bindParam(5, $post['role']); //bind parameters for security
```

Fig 9

		staff_id	email_address	password	fname	sname	specialty
<input type="checkbox"/>	Edit Copy Delete	1	SuperStaffTest@rtech.co.uk	\$2y\$10\$/OQkhzKXWuXJ7.dIZrKcYeB6iyQ43/K8JIHbKaDSO/...	Super Test	Staff	CONSULTANT
<input type="checkbox"/>	Edit Copy Delete	2	AdminStaffTest@rtech.co.uk	\$2y\$10\$8dSBMF2XmV.LI9Tt30JABuJOMityDqQepi.mHjqsM4x...	Admin	Staff Test	INSTALLER
<input type="checkbox"/>	Edit Copy Delete	3	EmailTest@gmail.com	\$2y\$10\$gs9IDv5kTzNJmQIfPSTP5.mid6RJHu9DKzu.IUFA2IX...	Email	Test	CONSULTANT
<input type="checkbox"/>	Edit Copy Delete	4		\$2y\$10\$.NVWYT71WGld9C8.qwjrBelcl761BCgMewOtSwxMaWq...	Yahoo	Test	CONSULTANT
<input type="checkbox"/>	Edit Copy Delete	5	EmailTest3@blueyonder.tv	\$2y\$10\$9v.VGnUT2TmvX3.9tZhtN.EjicyasD3yE1VZtc94WbP...	Test3	Blue	MAINTENANCE


```
elseif ($_SERVER['REQUEST_METHOD'] === 'POST') { // if it's a post method
    $email_address = valid_email($_POST['email_address']); // TEST THIS LINE IMMEDIATELY

    if (!pwd_checker($_POST['password'], $_POST['cpassword'])) { //calls function to check
        $_SESSION['ERROR'] = "Password related issue, try again";
        header( header: "Location: admin_dashboard.php");
        exit; // Stop further execution
    } else {
```

Fig 10

```
if (!valid_email($_POST['email_address'])) {
    $_SESSION['ERROR'] = "Email must be a company email (@rtech.co.uk)";
    header( header: "Location: admin_dashboard.php");
    exit; // Stop further execution
}
```

Fig 11

□ Edit Copy Delete 7 StaffTest@rtech.co.uk \$2y\$10\$zdrer6ftlvylgPrxAf5YTuskkxlUw9u6Wg3Yv6xRUsy... TESTING TESTER CONSULTANT

Fig 12

Fatal error: Uncaught Exception: Booking error: SQLSTATE[42000]: Syntax error or access violation: 1142 SELECT command denied to user 'rolsa_insert'@'localhost' for table 'booking_types' in H:\Task 2 Occ Spec\MY work\Version 2 - REG STAFF, BOOKING AND UNBOOKING\funcs.php:302 Stack trace: #0 H:\Task 2 Occ Spec\MY work\Version 2 - REG STAFF, BOOKING AND UNBOOKING\book_appt.php(17): commit_booking(Object(PDO), Array) #1 {main} thrown in H:\Task 2 Occ Spec\MY work\Version 2 - REG STAFF, BOOKING AND UNBOOKING\funcs.php on line 302

```

function commit_booking($conn, $post){
    try {
        // Prepare SQL query
        $sql = "INSERT INTO bookings (booking_id, user_id, staff_id, date, product, type_of_booking)
                VALUES (NULL, ?, ?, ?, ?, ?)";
        $stmt = $conn->prepare($sql);

        // Convert datetime-local to epoch timestamp
        $dateTime = DateTime::createFromFormat( format: 'Y-m-d\TH:i', $post['meeting-time']);
        $epochTime = $dateTime->getTimestamp();

        // Get booking type ID based on appointment type
        $booking_type_id = get_booking_type_id($conn, $post['apt_type']);

        // Bind parameters
        $stmt->bindParam(1, $_SESSION['user_id']);
        $stmt->bindParam(2, $post['staff_pick']);
        $stmt->bindParam(3, $epochTime);
        $stmt->bindParam(4, $post['product']);
        $stmt->bindParam(5, $booking_type_id);

        $stmt->execute();
        $conn = null;
        return true;
    } catch (PDOException $e) {
        error_log( message: "Booking error: " . $e->getMessage());
        throw new Exception( message: "Booking error: " . $e->getMessage());
    }
}

```

Fig 13

Fatal error: Uncaught Exception: Booking error: SQLSTATE[23000]: Integrity constraint violation: 1048 Column 'user_id' cannot be null in H:\Task 2 Occ Spec\MY work\Version 2 - REG STAFF, BOOKING AND UNBOOKING\functs.php:299 Stack trace: #0 H:\Task 2 Occ Spec\MY work\Version 2 - REG STAFF, BOOKING AND UNBOOKING\book_appt.php(17): commit_booking(Object(PDO), Array) #1 {main} thrown in H:\Task 2 Occ Spec\MY work\Version 2 - REG STAFF, BOOKING AND UNBOOKING\functs.php on line 299

Fig 14

Fatal error: Uncaught Exception: Booking error: SQLSTATE[HY000]: General error: 1366 Incorrect integer value: 'INSTALLER' for column 'type_of_booking' at row 1 in H:\Task 2 Occ Spec\MY work\Version 2 - REG STAFF, BOOKING AND UNBOOKING\functs.php:301 Stack trace: #0 H:\Task 2 Occ Spec\MY work\Version 2 - REG STAFF, BOOKING AND UNBOOKING\book_appt.php(19): commit_booking(Object(PDO), Array) #1 {main} thrown in H:\Task 2 Occ Spec\MY work\Version 2 - REG STAFF, BOOKING AND UNBOOKING\functs.php on line 301



<input type="checkbox"/>	6	type_of_booking		int	No	None	 Change	 Drop	More
--------------------------	---	-----------------	---	-----	----	------	--	--	------

Fig 15

ERROR: Invalid staff selection or appointment time

Choose a time for your appointment:  min="2025-03-31T10:07" max="2025-04-07T10:07" required />

Choose a staff member:

Choose an appointment type:

Select product: