

Test Plan and Results

Overall Test Plan

We will be taking a combined approach to our testing. We have a relatively simple user interface, so we will be testing that components are showing up correctly and our database is being updated accordingly. To test if the database is being updated correctly, we will be using whitebox testing. We will also have normal blackbox tests for each main feature of our application.

Test Case Descriptions

DB1.1 **Database Test 1**

DB1.2 This test will ensure that the tasks are correctly added to the database.
DB1.3 We will test this by adding a task then checking the database for correct information.
DB1.4 Inputs: Task (described below)
DB1.5 Output: New task row
DB1.6 Normal
DB1.7 Whitebox
DB1.8 Functional
DB1.9 Integration

DB2.1 **Database Test 2**

DB2.2 This test will ensure that each user's points are accurate after task completion.
DB2.3 We will test this by completing a task then checking the database for correct information.
DB2.4 Inputs: Task completion
DB2.5 Output: New point amount
DB2.6 Normal
DB2.7 Whitebox
DB2.8 Functional
DB2.9 Integration

TSK1.1 **Task Test 1**

TSK1.2 This test will ensure that the household owner can create a task.
TSK1.3 We will test this by navigating to the task creation page, adding input for the
TSK1.4 Inputs: description, number of reward points, person assigned, and deadline
TSK1.5 Outputs: New task created displaying description & deadline
TSK1.6 Normal
TSK1.7 Blackbox
TSK1.8 Functional
TSK1.9 Unit

TSK2.1 **Task Test 2**

TSK2.2 This test will ensure that the household owner can edit a task.
TSK2.3 We will test this by navigating to the task editing page and changing the description and
TSK2.4 deadline.
TSK2.4 Inputs: description, number of reward points, person assigned, and deadline
TSK2.5 Outputs: No change in task identifier, but the task elements have changed.
TSK2.6 Normal

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TSK2.7	Blackbox
TSK2.8	Functional
TSK2.9	Unit

TSK3.1 **Task Test 3**

TSK3.2	This test will ensure that the household owner can remove a task.
TSK3.3	We will test this by navigating to the task editing page and deleting the task
TSK3.4	Inputs: Action
TSK3.5	Outputs: Task is removed from household task list
TSK3.6	Normal
TSK3.7	Blackbox
TSK3.8	Functional
TSK3.9	Unit

TSK4.1 **Task Test 4**

TSK4.2	This test will ensure a user can complete tasks.
TSK4.3	The user will navigate to the tasks page and check off a reward to complete. The task is displayed as completed
TSK4.4	Inputs: Check box
TSK4.5	Outputs: Task is displayed as completed
TSK4.6	Normal
TSK4.7	Blackbox
TSK4.8	Functional
TSK4.9	Unit

LGN1.1 **Login Test 1**

LGN1.2	This test will ensure that a user can register a new account.
LGN1.3	We will test this by creating a new account through the sign up page, and making sure this creation is reflected in the database as a new user.
LGN1.4	Inputs: User First and last name, user email address, user password
LGN1.5	Outputs: New user in database
LGN1.6	Normal
LGN1.7	Blackbox
LGN1.8	Functional
LGN1.9	Integration

LGN2.1 **Login Test 2**

LGN2.2	This test will ensure that a user can log in to the app using the credentials they created at account registration.
LGN2.3	We will test this by going through the login process with an existing set of user credentials in the database.
LGN2.4	Inputs: Existing user email and password
LGN2.5	Outputs: User can use the application as allowed by their user permission type
LGN2.6	Normal
LGN2.7	Blackbox
LGN2.8	Functional
LGN2.9	Integration

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LGN3.1 **Login Test 3**

LGN3.2 This test will ensure that a user can sign out of the application
LGN3.3 We will test this by clicking sign out while logged in as a user.
LGN3.4 Inputs: The user clicks a logout button within the application
LGN3.5 Outputs: The user is logged out of the application and cannot access their profile.
LGN3.6 Normal
LGN3.7 Blackbox
LGN3.8 Functional
LGN3.9 Integration

LGN4.1 **Login Test 4**

LGN4.2 This test will ensure that a user can reset their password
LGN4.3 We will test this by sending a user a password reset link via email after the user clicks a
"Forgot Your Password?" link on the login page.
LGN4.4 Inputs: The user clicks the "Forgot Your Password?" link
LGN4.5 Outputs: The user is sent an email with a link to reset their password. Once this is filled
out, the user's password should be updated in the database, with all other information
staying the same.
LGN4.6 Normal
LGN4.7 Blackbox
LGN4.8 Functional
LGN4.9 Integration

RWD1.1 **Reward Test 1**

RWD1.2 This test will ensure that users can edit a reward.
RWD1.3 The user will navigate to the rewards page and select a reward to edit. The user can edit
the number of points and the reward description and save the updated reward.
RWD1.4 Inputs: Reward description, number of points
RWD1.5 Outputs: Reward list is updated with new info
RWD1.6 Normal
RWD1.7 Blackbox
RWD1.8 Functional
RWD1.9 Unit

RWD2.1 **Reward Test 2**

RWD2.2 This test will ensure the user can delete a reward.
RWD2.3 The user will navigate to the rewards page and select the button to delete a reward. The
reward will no longer be displayed in the rewards list.
RWD2.4 Inputs: Click delete
RWD2.5 Outputs: Rewards list is updated
RWD2.6 Normal
RWD2.7 Blackbox
RWD2.8 Functional
RWD2.9 Unit

RWD3.1 **Reward Test 3**

RWD3.2 This test will ensure the user can create a reward
RWD3.3 The user will navigate to the rewards page and select the button to create a new reward.
The user will input the name, description, and number of points for the reward. The

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	reward will be displayed on the rewards page.
RWD3.4	Inputs: Reward name, description, number of points
RWD3.5	Outputs: Reward list is updated with new info
RWD3.6	Normal
RWD3.7	Blackbox
RWD3.8	Functional
RWD3.9	Unit

Test Case Matrix

	Normal/Abnormal	Blackbox/Whitebox	Functional/Performance	Unit/Integration
DB 1	Normal	Whitebox	Functional	Integration
DB 2	Normal	Whitebox	Functional	Integration
TSK 1	Normal	Blackbox	Functional	Unit
TSK 2	Normal	Blackbox	Functional	Unit
TSK 3	Normal	Blackbox	Functional	Unit
TSK 4	Normal	Blackbox	Functional	Unit
LGN 1	Normal	Blackbox	Functional	Integration
LGN 2	Normal	Blackbox	Functional	Integration
LGN 3	Normal	Blackbox	Functional	Integration
LGN 4	Normal	Blackbox	Functional	Integration
RWD 1	Normal	Blackbox	Functional	Unit
RWD 2	Normal	Blackbox	Functional	Unit
RWD 3	Normal	Blackbox	Functional	Unit