

Test ID	Test Description	Expected Outcome	Actual Result			
LOGIN + PASSWORD CHANGE						
1	Log-in with correct username and password - username: test@gmail.com - password: testtest	Successful login	Successful login		Key:	
2	Log-in with incorrect username and correct password - username: wrong-test@gmail.com - password: testtest	Unsuccessful login	Unsuccessful login		Correct result	
3	Log-in with correct username and incorrect password - username: test@gmail.com - password: wrongwrong	Unsuccessful login	Unsuccessful login		Incorrect result	
4	After Password Change, log-in with correct username and new password - username: test@gmail.com - (new) password: updatedupdated	Successful login	Successful login		Unclear result	
5	After Password, Change, log-in with correct username and old password - username: test@gmail.com - (old) password: testtest	Unsuccessful login	Unsuccessful login			
CREATE HABIT						
Prerequisites 1. Login as TestUser - Username: test@gmail.com - Password: testtest		Teardown 1. Delete any created Habits			Benchmark	80% Code Coverage
6	Create Habit (Text) 1. Click + button on Habit page 2. Fill and select the following fields - Name: Test - Frequency: Daily - Privacy: Private - Activity: - Label: TestActivity - Type: Text 3. Click submit button	New habit is added to the Habit List with the name Test Viewing habit matches the details provided.	Pass		Automated Testing Instructions	1. Run Prerequisites "npm install" in sub-folder "DearHabits" 2. Run all Test Cases by running the application in the background and running "npm run e2e:chrome"
7	Create Habit (Numerical) 1. Click + button on Habit page 2. Fill and select the following fields - Name: Test - Frequency: Daily - Privacy: Private - Activity: - Label: TestActivity - Type: Numerical 3. Click submit button	New habit is added to the Habit List with the name Test Viewing habit matches the details provided.	Pass		Manually Testing Instructions	1. Run Prerequisites for section 2. Run all Test Cases for the section 3. Run Teardown after all Test Cases for section are finished
8	Create Habit (Scale) 1. Click + button on Habit page 2. Fill and select the following fields - Name: Test - Frequency: Daily - Privacy: Private - Activity: - Label: TestActivity - Type: Scale - Upper Bound: 10 - Lower Bound: 1 - Interval: 2 3. Click submit button	New habit is added to the Habit List with the name Test Viewing habit matches the details provided.	Pass			

9	<p>Create Habit (Checkmark)</p> <ol style="list-style-type: none"> Click + button on Habit page Fill and select the following fields <ul style="list-style-type: none"> Name: Test Frequency: Daily Privacy: Private Activity: <ul style="list-style-type: none"> Label: TestActivity Type: Checkmark Click submit button 	<p>New habit is added to the Habit List with the name Test</p> <p>Viewing habit matches the details provided.</p>	Pass			
10	<p>Multiple Activities</p> <ol style="list-style-type: none"> Click + button on Habit page Fill and select the following fields <ul style="list-style-type: none"> Name: Test Frequency: Daily Privacy: Private Activity1: <ul style="list-style-type: none"> Label: TestActivity1 Type: Text Activity2: <ul style="list-style-type: none"> Label: TestActivity2 Type: Numerical Activity3: <ul style="list-style-type: none"> Label: TestActivity3 Type: Scale Upper Bound: High Lower Bound: Low Interval: 2 Activity4: <ul style="list-style-type: none"> Label: TestActivity4 Type: Checkmark Click submit button 	<p>New habit is added to the Habit List with the name Test</p> <p>Viewing habit matches the details provided.</p>	Pass			
11	<p>Unsuccessful Create (empty Name)</p> <ol style="list-style-type: none"> Click + button on Habit page Fill and select the following fields <ul style="list-style-type: none"> Name: (blank) Frequency: Daily Privacy: Private Activity: <ul style="list-style-type: none"> Label: TestActivity Type: Text Click submit button 	<p>Warning message displayed at the top of the Create page.</p> <p>Name field is highlighted in red</p>	Pass			
12	<p>Unsuccessful Create (empty Label)</p> <ol style="list-style-type: none"> Click + button on Habit page Fill and select the following fields <ul style="list-style-type: none"> Name: Test Frequency: Daily Privacy: Private Activity: <ul style="list-style-type: none"> Label: (blank) Type: Text Click submit button 	<p>Warning message displayed at the top of the Create page.</p> <p>Label field is highlighted in red</p>	Pass			

13	<p>Unsuccessful Create (empty Upper Bound)</p> <ol style="list-style-type: none"> Click + button on Habit page Fill and select the following fields <ul style="list-style-type: none"> Name: Test Frequency: Daily Privacy: Private Activity: <ul style="list-style-type: none"> Label: TestActivity Type: Scale Upper Bound: (blank) Lower Bound: Low Interval: 2 Click submit button 	<p>Warning message displayed at the top of the Create page. Upper Bound field is highlighted in red</p>	Pass			
14	<p>Unsuccessful Create (empty Lower Bound)</p> <ol style="list-style-type: none"> Click + button on Habit page Fill and select the following fields <ul style="list-style-type: none"> Name: Test Frequency: Daily Privacy: Private Activity: <ul style="list-style-type: none"> Label: TestActivity Type: Scale Upper Bound: High Lower Bound: (blank) Interval: 2 Click submit button 	<p>Warning message displayed at the top of the Create page. Lower Bound field is highlighted in red</p>	Pass			
15	<p>Unsuccessful Create (Interval < 2)</p> <ol style="list-style-type: none"> Click + button on Habit page Fill and select the following fields <ul style="list-style-type: none"> Name: Test Frequency: Daily Privacy: Private Activity: <ul style="list-style-type: none"> Label: TestActivity Type: Scale Upper Bound: High Lower Bound: Low Interval: 1 Click submit button 	<p>Warning message displayed at the top of the Create page. Interval field is highlighted in red</p>	Pass			
16	<p>Unsuccessful Create (empty Upper Bound, empty Lower Bound & Interval < 2)</p> <ol style="list-style-type: none"> Click + button on Habit page Fill and select the following fields <ul style="list-style-type: none"> Name: Test Frequency: Daily Privacy: Private Activity: <ul style="list-style-type: none"> Label: TestActivity Type: Scale Upper Bound: (blank) Lower Bound: (blank) Interval: 1 Click submit button 	<p>Warning message displayed at the top of the Create page. Upper Bound field, Lower Bound field and Interval field are highlighted in red</p>	Pass			
17	<p>Unsuccessful Create (Remove last Grouping)</p> <ol style="list-style-type: none"> Click + button on Habit page Fill and select the following fields <ul style="list-style-type: none"> Name: Test Frequency: Daily Privacy: Private Click the - button on Activity1 	<p>A warning pops up telling user that a Habit requires a minimum of one Grouping</p>	Pass			

18	Unsuccessful Create (Create 20+ Grouping) 1. Click + button on Habit page 2. Fill and select the following fields - Name: Test - Frequency: Daily - Privacy: Private 3. Click the + button on at the bottom of the Create page (Repeat 19x)	A warning pops up telling user that a Habit has a maximum of 20 Groupings	Pass			
EDIT HABIT						
Prerequisites 1. Login as TestUser - Username: test@gmail.com - Password: testtest 2. Create Habit Test 2.1 Click + button on Habit page 2.2 Fill and select the following fields - Name: Test - Frequency: Daily - Privacy: Private - Activity: - Label: TestActivity - Type: Text 2.3 Click the submit button		Teardown (N/A)				
19	Edit Habit (Name) 1. Select Test Habit 2. Click Edit button 3. Change the Following Field - Name: NewTest 4. Click Save button	Habit has been renamed to "NewTest" in both the habit viewer and in the habit list	Pass			
20	Edit Habit (Frequency) 1. Select Test Habit 2. Click Edit button 3. Change the Following Field - Frequency: Weekly 4. Click Save button	Habit Frequency now reads "Weekly"	Pass			
21	Edit Habit (Privacy) 1. Select Test Habit 2. Click Edit button 3. Change the Following Field - Privacy: Public 4. Click Save button	Habit Privacy now reads "Public"	Pass			
22	Edit Habit (Label) 1. Select Test Habit 2. Click Edit button 3. Change the Following Field - Activity: - Label: NewTestActivity 4. Click Save button	Grouping label now reads "NewTestActivity"	Pass			
23	Edit Habit (Type - Numerical) 1. Select Test Habit 2. Click Edit button 3. Change the Following Field - Activity: - Type: Numerical 4. Click Save button	Input field for Grouping is now a number field	Pass			

24	Edit Habit (Type - Scale) 1. Select Test Habit 2. Click Edit button 3. Change the Following Field - Activity: - Type: Scale - Upper Bound: 10 - Lower Bound: 1 - Intervan: 2 4. Click Save button	Input field for Grouping is now a scale with the left side labeled as the Low, the right side labeled as High and with there being two positions, the left and the right	Pass			
25	Edit Habit (Type - Checkmark) 1. Select Test Habit 2. Click Edit button 3. Change the Following Field - Activity: - Type: Checkmark 4. Click Save button	Input field for Grouping is now a checkmark	Pass			
26	Edit Habit (Type - Text) 1. Select Test Habit 2. Click Edit button 3. Change the Following Field - Activity: - Type: Text 4. Click Save button	Input field for Grouping is now a text area	Pass			
27	Edit Habit (Add Activity) 1. Select Test Habit 2. Click Edit button 3. Click the + button at the bottom of the Edit page 3. Fill in and select the Following Field - Activity2: - Label: TestActivity2 - Type: Text 4. Click Save button	Second Grouping has been added to Habit	Pass			
28	Edit Habit (Remove Grouping - Must have 2 Groups) 1. Select Test Habit 2. Click Edit button 3. Click the - button at the bottom of Activity2 4. Click Save button	Second Grouping has been removed from Habit	Pass			
29	Unsuccessful Edit (Empty Field - Name) 1. Select Test Habit 2. Click Edit button 3. Change the Following Field - Name: (blank) 4. Click Save button	Top of the Edit page gives a warning that required field is not filled in, highlighted in red Name field is highlighted in red	Pass			
30	Unsuccessful Edit (Empty Field - Label) 1. Select Test Habit 2. Click Edit button 3. Change the Following Field - Activity: - Label: (blank) 4. Click Save button	Top of the Edit page gives a warning that required field is not filled in, highlighted in red Label field is highlighted in red	Pass			
31	Unsuccessful Edit (Empty Field - Upper Bound) 1. Select Test Habit 2. Click Edit button 3. Change the Following Field - Activity: - Type: Scale - Upper Bound: (blank) - Lower Bound: Low - Interval: 2 4. Click Save button	Top of the Edit page gives a warning that required field is not filled in, highlighted in red Upper Bound field is highlighted in red	Pass			

32	Unsuccessful Edit (Empty Field - Lower Bound) 1. Select Test Habit 2. Click Edit button 3. Change the Following Field - Activity: - Lower Bound: (blank) 4. Click Save button	Top of the Edit page gives a warning that required field is not filled in, highlighted in red Lower Bound field is highlighted in red	Pass			
33	Unsuccessful Edit (Incorrect Field - Interval) 1. Select Test Habit 2. Click Edit button 3. Change the Following Field - Activity: - Interval: 1 4. Click Save button	Top of the Edit page gives a warning that required field is not filled in, highlighted in red Interval field is highlighted in red	Pass			
34	Unsuccessful Edit (Remove Last Grouping) 1. Select Test Habit 2. Click Edit button 3. Click the - button at the bottom of Activity	Warning pop up saying that a Habit requires at least one Grouping	Pass			
35	Unsuccessful Edit (Create 20+ Groupings) 1. Select Test Habit 2. Click Edit button 3. Click the + button at the bottom of Activity (Repeat 19x)	Warning pop up saying that a Habit can have a max of 20 Groupings	Pass			
36	Delete Habit (Stopped) 1. Select Test Habit 2. Click Edit button 3. Click Delete button at the bottom of the Edit page 4. Click Cancel	Habit remains unchanged	Pass			
37	Delete Habit (Confirmed) 1. Select Test Habit 2. Click Edit button 3. Click Delete button at the bottom of the Edit page 4. Click Ok	Habit is removed from Habit list Habit is no longer viewable	Pass			
VIEWING HABITS						
Prerequisites 1. Login as TestUser02 - Username: test02@gmail.com - Password: testtest02 2. Create Habit 2.1 Click the + button 2.2 Fill and select the following fields - Name: Test02 - Frequency: Daily - Privacy: Private - Activity1 - Label: TestActivity1-2 - Type: Text - Activity2 - Label: TestActivity2-2 - Type: Numerical - Activity3 - Label: TestActivity3-2 - Type: Scale - Upper Bound: High - Lower Bound: Low - Interval: 10 - Activity4 - Label: TestActivity4-2 - Type: Checkmark 2.3 Click the submit button		Teardown: 1. Delete Test02 Habit 1.1 Select Test02 Habit 1.2 Click Edit button 1.3 Click Delete button 1.4 Click Ok				

38	<p>Submit Habit (Successful)</p> <ol style="list-style-type: none"> 1. Select Habit Test02 2. Enter values: <ul style="list-style-type: none"> - Activity1 => Text test - Activity2 => 1.0 - Activity3 => 5th interval - Activity4 => Checked 3. Click submit button 	<p>Activity1: Table expanded with current date & "Text test"</p> <p>Activity2: Line Graph should have one value => 1.0</p> <p>Activity3: Line Graph should have one value => 5</p> <p>Activity4: Line Graph should have one value => 1</p> <p>Submit button should be grayed out</p>	Pass			
39	<p>Resubmit Habit (Unsuccessful)</p> <ol style="list-style-type: none"> 1. Select Habit Test02 2. Click the submit button 	Submit button should not be clickable	Pass			
40	<p>Cycle Through Timeframes (Line Graph)</p> <ol style="list-style-type: none"> 1. Select Habit Test01 2. Navigate to Activity3 3. Select "Weekly" for Activity3 Visualization 4. Select "Monthly" for Activity3 Visualization 5. Select "Daily" for Activity3 Visualization 	<ol style="list-style-type: none"> 3. Visualization should shift with x-axis formatted as "Year-Month-First Day of the Week/Last Day of the Week" with three values 1, 3 and 5. 4. Visualization should shift with x-axis formatted as "Year-Month" with three values 1, 3, and 5 5. Visualization should shift to original graph 	Pass			
41	<p>Cycle Through Timeframes (Bar Graph)</p> <ol style="list-style-type: none"> 1. Select Habit Test01 2. Navigate to Activity3 3. Select "Bar" for Activity3 Visualization 4. Select "Weekly" for Activity3 Visualization 5. Select "Monthly" for Activity3 Visualization 6. Select "Daily" for Activity3 Visualization 	<ol style="list-style-type: none"> 3. Visualization should switch from a single point visualization to a single Bar visualization 4. Visualization should shift with x-axis formatted as "Year-Month-First Day of the Week/Last Day of the Week" with three values 1, 3 and 5. 5. Visualization should shift with x-axis formatted as "Year-Month" with three values 1, 3, and 5 6. Visualization should shift to original Bar graph 	Pass			
42	<p>Cycle Through Timeframes (Pie Graph)</p> <ol style="list-style-type: none"> 1. Select Habit Test01 2. Navigate to Activity3 3. Select "Pie" for Activity3 Visualization 4. Select "Weekly" for Activity3 Visualization 5. Select "Monthly" for Activity3 Visualization 6. Select "Daily" for Activity3 Visualization 	<ol style="list-style-type: none"> 3. Visualization should switch from a single point visualization to a single value Pie visualization 4. Visualization should shift with labels formatted as "Year-Month-First Day of the Week/Last Day of the Week" with three values 1, 3, and 5. 5. Visualization should shift with labels formatted as "Year-Month" with three values 1, 3, and 5 6. Visualization should shift to original Pie graph 	Pass			
43	<p>Cycle Through Statistics</p> <ol style="list-style-type: none"> 1. Select Habit Test01 2. Navigate to Activity2 3. Select "Highest" for Activity3 Statistic 4. Select "Lowest" for Activity3 Statistic 5. Select "Average" for Activity3 Statistic 6. Select "Longest Streak" for Activity3 Statistic 	<ol style="list-style-type: none"> 3. Statistic should display a value of 5 4. Statistic should display a value of 1 5. Statistic should display a value of 3 6. Statistic should display a value of 3 	Pass			
PROFILE						

	Prerequisites: 1. Login as TestUser - Username: test@gmail.com - Password: testtest				
44	Change Frequency: 1. Select "Weekly" option 2. Select "Monthly" option 3. Select "Daily" option	1. User's Notification Frequency changes to Weekly 2. User's Notification Frequency changes to Monthly 3. User's Notification Frequency changes to Daily (initial value)	Pass		
45	Signout: 1. Click the Sign Out button	1. Return to the Login/Registration page	Pass		
FRIENDS					
	Prerequisites: 1. Login as TestUser - Username: test@gmail.com - Password: @testtest 2. Create Habit Test03 2.1 Navigate to Habit page 2.2 Click + button 2.3 Fill and select the following fields - Name: Test03 - Frequency: Daily - Privacy: Public - Activity1 - Label: Activity1 - Type: Text 2.4 Click the submit button	Teardown: 1. Delete Test03 Habit 1.1 Select Test03 Habit 1.2 Click Edit button 1.3 Click Delete button 1.4 Click Ok			
46	Send Friend Request 1. Input into the Search bar: test02@gmail.com 2. Click on the "Add" button 3. Logout 4. Login with TestUser02 - Username: test02@gmail.com - Password: testtest02 5. Navigate to Friends page	2. TestUser has a pending friend named "test02@gmail" 5. TestUser02 has a Invite with the name "test@gmail.com"	Pass		
47	Accept Friend Request 1. Click on the "Accept" button as TestUser02 2. Logout of TestUser02 3. Login to TestUser - Username: test@gmail.com - Password: testtest 4. Navigate to "Friends" page	1. TestUser02 has no invites left 1. TestUser02 has a friend named "test@gmail.com" 4. TestUser has a friend named "test02@gmail.com"	Pass		

48	<p>React to Post</p> <ol style="list-style-type: none"> Complete Habit Test03 <ol style="list-style-type: none"> Select Test03 Habit Fill in the following field <ul style="list-style-type: none"> Activity1: Testing Click the submit button Navigate to Friends page React to Post of Test03 <ul style="list-style-type: none"> Click "Thumbs Up" reaction on Post of Test03 Logout of TestUser Login as TestUser02 <ul style="list-style-type: none"> Username: test02@gmail.com Password: testtest02 Navigate to Friends page Click on Reactions List for Post of Test03 React to Post of Test03 <ul style="list-style-type: none"> Click "Heart" reaction on Post of Test03 Logout of TestUser02 Login as TestUser <ul style="list-style-type: none"> Username: test@gmail.com Pasword: testtest Navigate to Friends page Click on Reactions List 	<ol style="list-style-type: none"> TestUser02 sees one Reaction (Thumbs Up) TestUser02 sees two Reactions (Thumbs Up, Heart) TestUser sees two Reactions (Thumbs Up, Heart) 	Pass			
49	<p>Remove Friend</p> <ol style="list-style-type: none"> Click on the "Remove" button next to "testuser02@gmail.com" Logout of TestUser Login as TestUser0 <ul style="list-style-type: none"> Username: test02@gmail.com Password: @testuser02!Password Navigate to Friends page 	<ol style="list-style-type: none"> TestUser has no friends TestUser02 has no friends 	Pass			
50	<p>Reject Friend Request</p> <ol style="list-style-type: none"> Input into the Search bar: test@gmail.com Click on the "Add" button Logout Login with TestUser <ul style="list-style-type: none"> Username: test@gmail.com Password: testtest Navigate to "Friends" page Click the Remove button Login with TestUser02 <ul style="list-style-type: none"> Username: test02@gmail.com Password: @testuser02!Password Navigate to the Friends page 	<ol style="list-style-type: none"> TestUser has no remaining Invites TestUser has no friends TestUser02 has no friends 	Pass			