



CS 307

Sprint 1 Test Cases

Team 7:

Haris Sohail, Mayur Patil, Jack Crawford, Jacob Riggs

User Story #1

As a user, I would like to be able to create an account

- **Test Description:** Check that each registration page field requires some string.
- **Steps:** Try registering an account while the field being tested is empty.
- **Expected Result:** Error message shows after the register account button is clicked.
- **Result:** PASS

First Name

Last Name

Email

! Please fill out this field.

sampleuser

Last Name

Email

! Please fill out this field.

sampleuser

samplelastname

Email

Username

! Please fill out this field.

This screenshot shows a registration form with four input fields: 'sampleuser', 'samplelastname', 'Email', and 'Username'. The 'Username' field is highlighted with a red border and an error message: 'Please fill out this field.'

sampleuser

samplelastname

email@email.com

Username

Password

! Please fill out this field.

This screenshot shows the same registration form, but now the 'Password' field is highlighted with a red border and an error message: 'Please fill out this field.'

sampleuser

samplelastname

email@email.com

sampleUsername

Password

Confirm Password

! Please fill out this field.

This screenshot shows the registration form with the 'Confirm Password' field highlighted with a red border and an error message: 'Please fill out this field.'

- **Test Description:** Ensure proper format for user emails.
- **Steps:** Enter a bad email format and attempt to register an account
- **Expected Result:** Error message displays and prompts to enter a valid email.
- **Result:** PASS

sampleuser

samplelastname

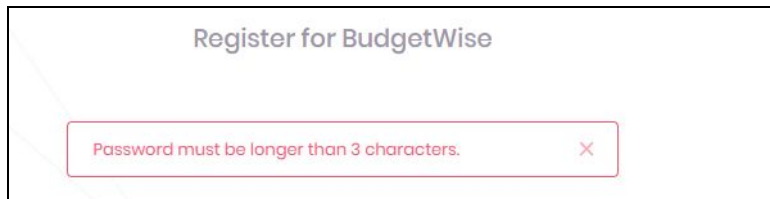
emailbadformat

! Please include an '@' in the email address. 'emailbadformat' is missing an '@'.

Password

This screenshot shows the registration form with the 'emailbadformat' field highlighted with a red border and an error message: 'Please include an '@' in the email address. 'emailbadformat' is missing an '@'.'

- **Test Description:** User must have a password longer than three characters
- **Steps:** Attempt to register with a password with fewer than three characters.
- **Expected Result:** Error message prompting for valid password
- **Result:** PASS



Register for BudgetWise

Password must be longer than 3 characters. ✕

- **Test Description:** Ensure password and password confirmation fields match
- **Steps:** Attempt to register with non-matching passwords
- **Expected Result:** Error message prompting for identical password fields
- **Result:** PASS



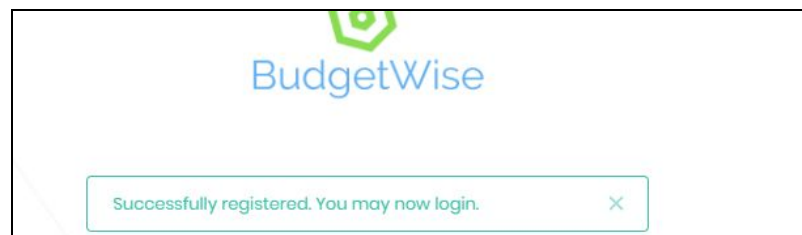
Register for BudgetWise

New password does not match confirmation password field. ✕

First Name

- **Test Description:** Ensure that a new user is able to register an account.
- **Steps:** Register an account with valid credentials
- **Expected Result:** User is added to database and redirected to login page
- **Result:** PASS

Options							
id	email	username	password	first_name	last_name	forgot_password	
3a92eca2-c770-4e15-a989-28d08887c961	sample@sample.com	sampleUserName	\$2a\$10\$JEaHToOWHfgh.LNclyMswelzGXKh9WFOFcId7nDT6o...	sampleUser	sampleLastName	1	



BudgetWise

Successfully registered. You may now login. ✕

- **Test Description:** Ensure that new users must not match email or username of previously registered users
- **Steps:** Register an account with credentials already being used
- **Expected Result:** Error message is displayed and account is not created.
- **Result:** PASS

The image displays two side-by-side screenshots of a user registration form, illustrating a test scenario for duplicate email or username.

Left Screenshot (Initial State):

- First Name:** Sample
- Last Name:** User
- Email:** test@test.com
- Username:** SampleUser
- Password:** Two masked password fields (****).
- Action:** A "Sign Up" button is visible at the bottom.

Right Screenshot (Error State):

- Error Message:** "This username or email has already been registered." (indicated by a red border and a red 'X' icon).
- Form Fields:** The form fields are empty, showing the labels: First Name, Last Name, Email, Username, and Password.

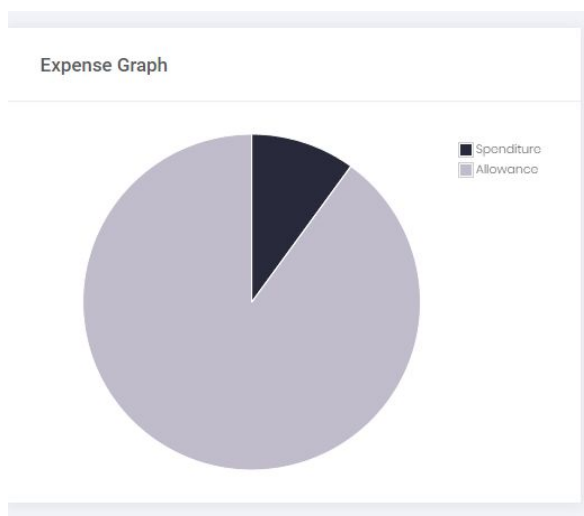
User Story #2

As a user, I would like to be able to view graphs that show my spending across different time intervals and spending categories.

- **Test Description:** Ensure that when user enters expense the pie graph reflects the proper amount of expenditure and allowance
- **Steps:** Add expense in program. Click “View” button on dashboard page to view expenditure for a particular budget. The graph will reflect the new expense.
- **Expected Result:** Graph will reflect the proper ratios for new expense.
- **Result:** PASS



Before view of graph with sample set at 200



Enter a New Expense

Category
Bills ▼

Recurring Expense
No ▼

Recurring Time Frame
Recurring every X DAYS

Recurring Expense End Date (YYYY-MM-DD)
mm/dd/yyyy

Expense Name
Internet Bill

Expense Price
20

Add Expense

After adding \$20 item graph reflects 1/10th slice of Expenditure

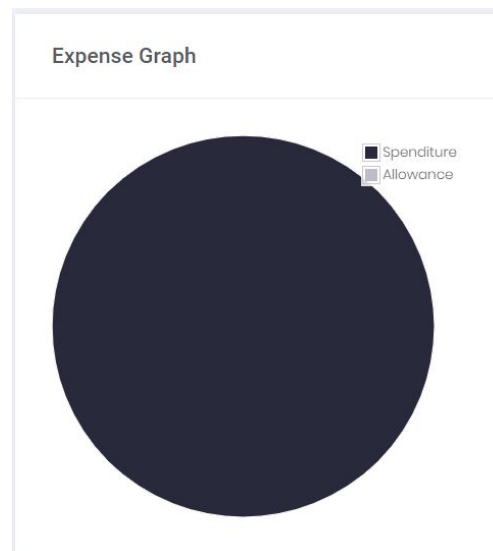
- **Test Description:** Ensure that when a budget expenditure exceeds its allowance, it does not break the pie chart.
- **Steps:** Add expenses whose values exceed the total allowance of the budget.
- **Expected Result:** Pie chart will show as full, but will not display a negative value for remaining allowance.
- **Result: PASS**

Budget Allowance

500

Budget Spenditure

522.1



User Story #3

As a user, I would like to be able to create new spending categories.

- **Test Description:** Ensure that users receive predefined categories to use that all users should have (food, entertainment, travel, and bills)
- **Steps:** Create a new account.
- **Expected Result:** New account dashboard has predefined categories set up.
- **Result: PASS**

Categories

Food

Travel

Entertainment

Bills

▲

▼

- **Test Description:** Ensure that users are able to add new categories
- **Steps:** Attempt to add a new category to user account
- **Expected Result:** When client queries the database, it finds and displays the new category.
- **Result:** PASS

Create a Category

Categories

hello

Category Name

Travel

Create Category

Create a Category

Categories

Travel
hello

Category Name

Category Name

Create Category

User Story #4

As a user, I would like to be able to manually enter purchases.

- **Test Description:** Ensure that the user is able to create a budget that will hold the expenses.
- **Steps:** Enter budget name, allowance, start date, and end date.
- **Expected Result:** New Budget will show in budgets table.
- **Result:** PASS

Create a Budget

Budget Name

sampleBudget

Budget Allowance

200

Budget Start Date (YYYY-MM-DD)

02/20/2019

Budget End Date (YYYY-MM-DD)

01/01/2020

Create Budget

Name	Allowance ↑	Amount Spent	Start Date	End Date
sampleBudget	200	0	2019-02-20T00:00:00.000Z	2020-01-01T00:00:00.000Z

- **Test Description:** Ensure that user is able to enter a non-recurring purchase.
- **Steps:** Enter a new purchase with selection “No” for recurring expense option.
- **Expected Result:** Expense is added to the database.
- **Result:** PASS

Enter a New Expense

Category
Food

Recurring Expense
No

Recurring Time Frame
Recurring every X DAYS



Recurring Expense End Date (YYYY-MM-DD)
mm/dd/yyyy

Expense Name
Pizza

Expense Price
20.18

Add Expense

Adding expense

			c0c60360-53cf-4ff4-8cbc-5403ac95555b	Pizza	20.18	0	8e89d6dd-a7f5-4a7a-98e3-dbf9d14df7f9	a1874173-9db8-4480-9c93-8b77ee986ea9	2019-02-19 16:1
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Expense shows up in database

User Story #5

As a user, I would like to be able to enter recurring spending amounts.

- **Test Description:** Ensure that user is able to enter a recurring purchase.

- **Steps:** Enter a new purchase with selection “YES” for recurring expense option.
- **Expected Result:** Expense is added to the database.
- **Result:** PASS

Enter a New Expense

Category
Food

Recurring Expense
Yes

Recurring Time Frame
10

Recurring Expense End Date (YYYY-MM-DD)
01/06/2020

Expense Name
Coffee

Expense Price
3

Add Expense

Adding Expense (Selected Recurring)

Name	Price	Recurring	Date	Analysis
Coffee	3	Yes	2019-02-21T02:53:09.000Z	View

Expense shows recurring as 'yes'

id	name	price	recurring	category	user	creationDate
1d772583-8c97-446c-922e-7bb55174ce75	Coffee	3.00	1	04d5bcde-2879-4328-bc80-8b621bb9a1b4	6081d026-36f7-4d25-8785-374636ab6e6e	2019-02-21 02:53

Expense shows recurring as '1' in database

User Story #6

As a user, I would like to be able to view detailed analytics on the expenses that cost me the most.

Status:

All

▼

User Level:

All

▼

🔍

 Tra

Name	Expenses	Analysis
Travel	1	<div>View</div>

Categories

Status:

All

▼

User Level:

All

▼

🔍

 Search...

Name	Expenses	Analysis
Travel	1	<div>View</div>
hello	1	<div>View</div>

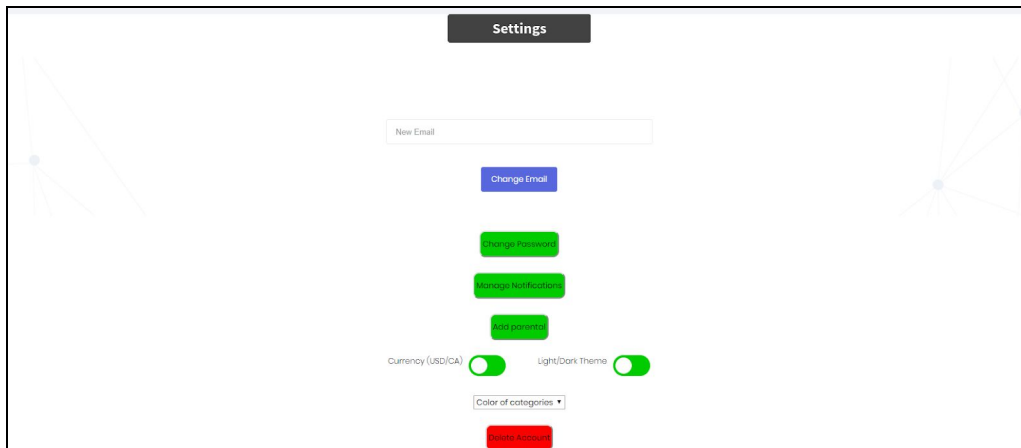
10 ▼

Budgets					
Status:	All	User Level:	All	Search...	
Name	Allowance	Amount Spent	Start Date	End Date	Analytics
main budget	299	2.95	2019-02-17T00:00:00.000Z	2020-01-01T00:00:00.000Z	View
test Budget	350	0	2019-02-18T00:00:00.000Z	2020-02-28T00:00:00.000Z	View

User Story #7

As a user, I would like to be able to customize my BudgetWise dashboard to my liking

- **Test Description:** Ensure that settings page code correctly displays UI
- **Steps:** Open Settings Page
- **Expected Result:** Page displays center-aligned buttons, with options to change email, password, manage notifications, add parental account, set currency, change theme, and delete account
- **Result:** PASS



- **Test Description:** Ensure that settings page changes theme as a proof of concept for
- **Steps:** Click light/dark theme switch
- **Expected Result:** Page theme changes
- **Result:** PASS

