Testing Document and Specification
Test Specification

Group 1 Test Cases
CS 451R 2021

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Test Case ID:	4.1.1.1
Title:	Register a New User
Feature/Sub Feature:	System User Validation
Purpose:	To ensure that new users are able to access and utilize the application.
Initial Conditions:	User must currently be on either the "Home Page" or "Login Page" of the application and cannot be logged into another account. User must have an email address not associated with another account.
Test Data:	Test data will include email addresses already stored within the database such as user@web.site. Test data will also include invalid passwords such as 123456789, and invalid password confirmation. Temporary user user3@web.site with the associated password P@ssW0rd!!! will be created to both validate this feature of the application and assist with other tests.
Test Actions:	1.Go to the main website 2. Click on the 'Register' link 3. Enter unique email 4. Click the 'Register' button 5. Confirm email
Expected Results:	After Step 2 the 'Register Page' will appear allowing for an email address and password to be entered. After step 5. If an invalid email address, password, or password confirmation is entered, an associated error message will appear, and step 3 or 4 should be repeated. After Step 6, the user should be taken to the 'Home Page'

Test Case ID:	4.1.1.2
Title:	Authenticating A User Log in
Feature/Sub Feature:	System User Authentication

Purpose:	To ensure that registered users can log in to the system if they have previously been logged out.
Initial Conditions:	User must currently be on the "Login Page" of the application and must not be currently logged in.
Test Data:	Test data will include invalid email addresses such as user@gmailcom and valid email addresses not yet associated with an account such as user@yahoo.com. The temporary user user3@web.site will also be tested with both valid and invalid passwords
Test Actions:	1. Go to the main website 2. Click on the "Click me to login here" button 3. Enter valid email address and associated password 4. Click the login button
Expected Results:	After step 2 the "Login Page" will appear allowing for a valid email address and associated password to be entered. After step 4, if an invalid email address or password is input, an "invalid login attempt" message will appear, otherwise the "Transaction Page" for the associated user will appear.

Test Case ID:	**4.1.2.1**
Title:	New Transaction
Feature/Sub Feature:	Transactions
Purpose:	To ensure that valid users are able to create their own transactions to update their account.
Initial Conditions:	User must be on their associated "Transactions Page", which means that they have already been authenticated as a valid user.
Test Data:	Date: 04/24/2021 Time: 5:00 PM Location: Kansas City, MO Balance: 0.00 Deposit/Withdrawal: Deposit Transaction Amount: 1000.00

	Description: New Account
Test Actions:	1. From the "Transactions Page", click on the "Create New" link
	2. Enter test data date in the "Date" text box
	3. Enter test data time in the "Time" text box
	4. Enter test data location in the "Location" text box
	5. Enter test data balance in the "Balance" text box
	6. Select from the Withdrawal/Deposit menu
	7. Enter test data transaction amount in the "Transaction Amount" text box
	8. Enter test data Description in the "Description" text box
	9. Click the "Create" button
Expected Results:	After step 1, the "Create Transaction" page will appear with text boxes for the associated transaction information so data can be input. After step 6, the "Transaction Page" will appear again, but with the new data added to the transaction table.

Test Case ID:	**4.1.2.2**
Title:	Editing Transactions
Feature/Sub Feature:	Transactions
Purpose:	To ensure that valid users have the ability to amend any transactions if any errors emerge.
Initial Conditions:	Current user must be on the "Transactions" page, which means that they have already been authenticated as a valid user. The user must also have at least one transaction stored in the database.
Test Data:	Date: 04/22/2021 Time: 4:00 AM Location: Denver, CO Balance: 1.11 Deposit/Withdrawal: Withdrawal

	Transaction Amount: 1.01 Description: New Account Correction
Test Actions:	1. From the "Transactions Page", click on the "Details" link on the right side of the desired transaction 2. Click on the "Edit" link under the transaction details 3. Enter test data date in the "Date" text box 4. Enter test data time in the "Time" text box 5. Enter test data location in the "Location" text box 6. Enter test data balance in the "Balance" text box 7. Select from the Withdrawal/Deposit menu 8. Enter test data transaction amount in the "Transaction Amount" text box 9. Enter test data description in the "Description" text box 10. Click the "Save" button
Expected Results:	After step 1, the "Details Page'' for the associated transaction will appear, providing the edit link. After step 2, an editing page for the transaction will appear with text boxes for the associated transaction information so any of the features can be edited. After step 10, the "Transaction Page" will appear again, but with the amended data added to the transaction table.

Test Case ID:	**4.1.3.1**
Title:	New Notification
Feature/Sub Feature:	Notifications
Purpose:	To ensure that registered users can create new notification rules
Initial Conditions:	User must be on the "Notification Rules Page", meaning that they have already been authenticated as a valid user.
Test Data:	Date Filter: After Date: 04/23/2021 Time Filter: Before Time: 6:00 AM

	Location: Kansas City, MO Deposit/Withdrawal: Deposit Transaction Limiter: Above Transaction Amount: 1000 DescriptionFilter: None
Test Actions:	1. From the "Notification Rules Page", click on the "Create New" link 2. Select from the Date Filter menu 3. Enter test data in the "Date" text box 4. Select from Time Filter menu 5. Enter test data time in the "Time" text box 6. Enter test data location in the "Location" text box 7. Select from the Withdrawal/Deposit menu 8. Select from the Transaction Limiter menu 9. Enter test data transaction amount in the "Transaction Amount" text box 10. Enter test data description filter in the "DescriptionFilter" text box 11. Click the "Create" button
Expected Results:	After step 1, the "Create Notification Rule" page will appear with text boxes for the associated notification information so data can be input. After step 11, the "Notification Rules Page" will appear again, but with the new data added to the table.

Test Case ID:	**4.1.3.2**
Title:	Edit Notifications
Feature/Sub Feature:	Notifications
Purpose:	To ensure that valid users have the ability to amend any notification rules
Initial Conditions:	Current user must be on the "Notification Rules" page, which means that they have already been authenticated as a valid user. The user must also have at least one Notification Rule stored in the database.
Test Data:	Date Filter: Same Date: 04/24/2021 Time Filter: After Time: 5:00 PM Location: St. Louis, MO Deposit/Withdrawal: Withdrawal Transaction Limiter: Below Transaction Amount: 500 DescriptionFilter: Purchase

Test Actions:	1. From the "Notification Rules Page", click on the "Edit" link on the right side of the desired notification rule
	2. Select from the Date Filter menu
	3. Enter test data in the "Date" text box
	4. Select from Time Filter menu
	5. Enter test data time in the "Time" text box
	6. Enter test data location in the "Location" text box
	7. Select from the Withdrawal/Deposit menu
	8. Select from the Transaction Limiter menu
	9. Enter test data transaction amount in the "Transaction Amount" text box
	10. Enter test data description filter in the "DescriptionFilter" text box
	11. Click the "Create" button
Expected Results:	After step 1, the "Edit Notification Rule" page will appear with text boxes for the associated notification information so data can be input. After step 11, the "Notification Rules Page" will appear again, but with the edited data in the table instead.

Test Case ID:	**4.1.5.1**
Title:	Update email address
Feature/Sub Feature:	Manage Profile
Purpose:	To ensure the user can properly update their email address if needed.
Initial Conditions:	User must be on the "Manage Your Account" page, which means they have already been authenticated as a valid user.
Test Data:	Invalid emails such as user@gmailcom, already associated emails such as user@web.site, and valid, unassociated emails such as user5@web.site

Test Actions:	1. Click the "Email" link on the "Manage Your Account" page 2. Enter email into "New Email" text box 3. Click the "Change Email" button
Expected Results:	After step 1, text boxes will appear displaying the current email as well as a space to enter a new email. After step 5, if the entered email is a valid, unassociated email then a confirmation message will appear. Otherwise, a warning message will appear.

Test Case ID:	4.1.5.2
Title:	Update Password
Feature/Sub Feature:	Manage Profile
Purpose:	To ensure users have the ability to change their password if they would like
Initial Conditions:	User must be on the "Manage Your Account" page, which means they have already been authenticated as a valid user.
Test Data:	Tests will include valid and invalid password options such as P@ssword1!! and 123456789 respectively
Test Actions:	1. Click the "Password" link on the "Manage Your Account" page Enter current password into "Current Password" text box 3. Enter new password into "New Password" and "Confirm Password" text boxes 5. Click the "Update Password" button
Expected Results:	After step 1, text boxes will appear so that the user can type in their passwords. After step 5, if the current password is correct and the new password is valid, a confirmation message will appear. If either of those are false, then an "Invalid Password" message appears

Test Case ID:	4.1.5.3
Title:	Deleting Account
Feature/Sub Feature:	Manage Profile
Purpose:	To allow users the option to permanently delete their account and all associated data from the database.

Initial Conditions:	User must be on the "Manage Your Account" page, which means they have already been authenticated as a valid user.
Test Data:	No test data needed for this case
Test Actions:	1. Click the "Personal Data" link on the "Manage Your Account" page 2. Click on the "Delete" button 3. Type in account password to confirm decision
Expected Results:	After step 1, buttons will appear including the one to allow the user to permanently delete account. After valid password input in step 3, the application returns to the "Home" page