

## College Capital Manual Testing Documentation (Sprint 2)

### Testing Threshold: 1 hour of testing = 4 manual tests

(Note: User should begin testing logged out of any current College Capital accounts)

(Note: Unless otherwise specified, User should always be logged in during testing)

### User Story 9 (1 Hour): As a user, I would like to be able to visualize my current financial status.

#### Test Case 1

- System: chart.js
- Check to make sure pie chart displays correct categorical data
- Severity: 2
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Visualizations page
- **Expected Result**
  - Users current financial status should be visualized with correct data in a pie chart

#### Test Case 2

- System: chart.js
- Check to make sure daily expenditures are correctly visualized
- Severity: 2
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Visualizations page
- **Expected Result**
  - User's daily expenditures should be correctly visualized

#### Test Case 3

- System: chart.js
- Check to make sure weekly expenditures are correctly visualized
- Severity: 2
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Visualizations page
- **Expected Result**
  - User's weekly expenditures should be correctly visualized

#### **Test Case 4**

- System: chart.js
- Check to make sure monthly expenditures are correctly visualized
- Severity: 2
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Visualizations page
- **Expected Result**
  - User's monthly expenditures should be correctly visualized

**User Story 11 (1 Hour): As a user, I would like to be able to export my visualizations.**

**Test Case 1**

- System: chart.js
- Check to make sure user can export pie chart
- Severity: 2
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Visualizations page
  - Select file format from drop down menu on pie chart
- **Expected Result**
  - Page should correctly export pie chart in chosen format

**Test Case 2**

- System: chart.js
- Check to make sure user export daily spending chart
- Severity: 2
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Visualizations page
  - Select file format from drop down menu on daily spending graph
- **Expected Result**
  - Page should correctly export daily spending graph in chosen format

**Test Case 3**

- System: chart.js
- Check to make sure user export weekly spending chart
- Severity: 2
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Visualizations page
  - Select file format from drop down menu on weekly spending graph
- **Expected Result**
  - Page should correctly export weekly spending graph in chosen format

#### Test Case 4

- System: chart.js
- Check to make sure user export monthly spending chart
- Severity: 2
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Visualizations page
  - Select file format from drop down menu on monthly spending graph
- **Expected Result**
  - Page should correctly export monthly spending graph in chosen format

**User Story 13 (1.5 Hours): As a user, I would like to be able to update my transaction history.**

**Test Case 1**

- System: Transactions.js, CreateEditTransaction.js
- Check to make sure input validation functions correctly
- Severity: 2
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Transactions page
  - Attempt to create a new expenditure by pressing the NEW TRANSACTION button
- **Expected Result**
  - User should not be able to create a transaction without filling in all fields

**Test Case 2**

- System: Transactions.js, CreateEditTransaction.js
- Check to make sure user can update their transaction history
- Severity: 2
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Transactions page
  - Update a present transaction with valid information
- **Expected Result**
  - Updated transaction history should be correctly displayed

**Test Case 3**

- System: Transactions.js
- Check to make sure user's transaction history is correctly displayed
- Severity: 2
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Transactions page
- **Expected Result**
  - User's transaction history should be displayed with the correct information

#### Test Case 4

- System: Transactions.js, CreateEditTransaction.js
- Check to make sure each newly added transaction is listed correctly
- Severity: 2
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Transactions page
  - Create a new transaction and navigate back to Transactions page
- **Expected Result**
  - Newly made transaction should be listed in the correct order

#### Test Case 5

- System: Transactions.js, CreateEditTransaction.js
- Check to make sure changes on the front-end are reflected in the database
- Severity: 2
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Transactions page
  - Update a transaction
  - (As admin) Navigate to College Capital firebase console
- **Expected Result**
  - Transaction values updated in the UI should also be updated in the database

#### Test Case 6

- System: Transactions.js
- Check to make sure table display functions are functioning correctly
- Severity: 2
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Transactions page
    - Add a few transactions with differing values
  - Test various table functions (sorting, highlighting, editing)
- **Expected Result**
  - All table functions should operate as expected

**User Story 14 (1 Hour):** As a user, I would like to be able to view my transaction history.

**Test Case 1**

- System: Transaction.js
- Check to make sure users transaction history is correctly ordered
- Severity: 1
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Transactions page
- **Expected Result**
  - Users transaction history should be displayed in order of transaction date with the correct values

**Test Case 2**

- System: Transactions.js
- Check to make sure users transaction history is correctly displayed
- Severity: 2
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Transactions page
- **Expected Result**
  - User's transactions should contain all relevant information (date, amount, and location)

**Test Case 3**

- System: Transactions.js
- Check to make sure users are given the option to delete transactions
- Severity: 2
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Transactions.js page
- **Expected Result**
  - Transactions should also give an option to be deleted from the list, should the user decide to do so

#### **Test Case 4**

- System: Transactions.js
- Check to make sure transaction history can be reverse sorted
- Severity: 2
  
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Transactions page
  - Click on Transaction Date once to reverse sorting order
  
- **Expected Result**
  - Transactions should be sorted in reverse order, by oldest transaction instead of newest.



## **User Story 15 (1 Hour): I would like to be able to export my transaction history.**

### **Test Case 1**

- System: Transactions.js, exportTransactions.js
- Check to make sure history table exports correctly as JSON
- Severity: 2
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Transactions page
  - Click EXPORT... and choose JSON
- **Expected Result**
  - User should receive a JSON transaction history file

### **Test Case 2**

- System: Transactions.js, exportTransactions.js
- Check to make sure history table exports correctly as CSV
- Severity: 2
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Transactions page
  - Click EXPORT... and choose CSV
- **Expected Result**
  - User should receive a CSV transaction history file

### **Test Case 3**

- System: Transactions.js, exportTransaction.js
- Check to make sure that exported history contains the correct information
- Severity: 2
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Transactions page
  - Click EXPORT... and choose a file type
  - Open file and check information
- **Expected Result**
  - Exported information should match information on the Transactions page

#### Test Case 4

- System: Transactions.js
- Check to make sure user can choose which transactions to export
- Severity: 2
  
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Transactions page
  - Highlight desired transactions then click export and choose file type
  
- **Expected Result**
  - Exported file should contain only the specified transactions with the correct information

## **User Story 16 (1 Hour): I would like to be able to categorize my expenses.**

### **Test Case 1**

- System: Transactions.js
- Check to make sure users have the option to categorize their expenses
- Severity: 2
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Transactions page
  - Attempt to add a new expenditure
- **Expected Result**
  - When attempting to add a new expenditure, user should be presented with options for how they can categorize their expenses (Dining, Travel, etc.)

### **Test Case 2**

- System: Transactions.js
- Check to make sure any changes made to expenses are reflected in the database
- Severity: 2
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Financials page
  - Modify any transaction with values different from what that transaction already contains.
  - (As admin) Navigate to college capital firebase console and check database
- **Expected Result**
  - Changes to any financial accounts should be reflected in the database.

### **Test Case 3**

- System: Transactions.js
- Check to make sure expense sorting works
- Severity: 2
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Transactions page
  - Use the filter to attempt to sort expenses by any of the relevant information

- **Expected Result**
  - Expenses should be displayed sorted by the chosen information

#### **Test Case 4**

- System: Transactions.js
- Check to make sure only valid list of categories can be selected
- Severity: 2
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Transactions page
  - Select a transaction to update
  - Open Developer Console in browser (F12)
  - Locate category selector element within the page
  - Change selector's value to "Rogue Value"
- **Expected Result**
  - User should be unable to change the category value to an invalid name

**User Story 17 (1 Hour):** As a user, I would like to be able to specify categories when updating my funds.

#### **Test Case 1**

- System: Financials.js
- Check to make sure category selector displays properly
- Severity: 2
  
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Financials page
  - Attempt to select a category in the fund editing pane
  
- **Expected Result**
  - Selector should display with the following options:
    - PayPal
    - Dining Dollar
    - Boiler Express
    - Financial Aid
    - Bank

#### **Test Case 2**

- System: Financials.js
- Check to make sure category updates sync to the database
- Severity: 2
  
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Financials page
  - Select a fund to update
  - Select a category to update to
  - Click "Edit Account"
  
- **Expected Result**
  - Update to the selected category should be reflected in the database

#### **Test Case 3**

- System: Financials.js
- Check to make sure only valid list of categories can be selected
- Severity: 2

- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Financials page
  - Select a fund to update
  - Open Developer Console in browser (F12)
  - Locate category selector element within the page
  - Change selector's value to "Rogue Value"
- **Expected Result**
  - Category selector's available options should not be affected

#### Test Case 4

- System: Financials.js
- Check to make sure manual input of category is not allowed
- Severity: 2
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Financials page
  - Select a fund to update
  - Open Developer Console in browser (F12)
  - Locate hidden <input> element for category selector in element
  - Attempt to manually modify value in <input> directly
- **Expected Result**
  - Value in <input> should not respond to any attempts at manual modification

**User Story 23 (0.5 Hours):** As a user I would like to be able to see a snapshot of my daily usage.

#### **Test Case 1**

- System: Transactions.js
- Check to make sure updates to transactions are correctly updated in the database
- Severity: 2
  
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Transactions page
  - Edit a transaction to have different values than before
  - (As admin) Navigate to college capital firebase console and check database
  
- **Expected Result**
  - Edited transaction should have updated values

#### **Test Case 1**

- System: Transactions.js, Visualizations.js
- Check to make sure updates to transactions are correctly reflected in the Visualizations
- Severity: 2
  
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Transactions page
  - Edit a transaction to have different values than before
  - Navigate to Visualizations page
  
- **Expected Result**
  - Daily expenses graph should reflect the updated values

**User Story 24 (0.5 Hours):** As a user I would like to be able to see a snapshot of my weekly usage.

#### **Test Case 1**

- System: Transactions.js
- Check to make sure updates to transactions are correctly updated in the database
- Severity: 2
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Transactions page
  - Edit a transaction to have different values than before
  - (As admin) Navigate to college capital firebase console and check database
- **Expected Result**
  - Edited transaction should have updated values

#### **Test Case 1**

- System: Transactions.js, Visualizations.js
- Check to make sure updates to transactions are correctly reflected in the Visualizations
- Severity: 2
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Transactions page
  - Edit a transaction to have different values than before
  - Navigate to Visualizations page
- **Expected Result**
  - Weekly expenses graph should reflect the updated values



**User Story 25 (0.5 Hours):** As a user I would like to be able to see a snapshot of my monthly usage.

#### **Test Case 1**

- System: Transactions.js
- Check to make sure updates to transactions are correctly updated in the database
- Severity: 2
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Transactions page
  - Edit a transaction to have different values than before
  - (As admin) Navigate to college capital firebase console and check database
- **Expected Result**
  - Edited transaction should have updated values

#### **Test Case 1**

- System: Transactions.js, Visualizations.js
- Check to make sure updates to transactions are correctly reflected in the Visualizations
- Severity: 2
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Transactions page
  - Edit a transaction to have different values than before
  - Navigate to Visualizations page
- **Expected Result**
  - Monthly expenses graph should reflect the updated values

**User Story 32 (1 Hour):** As a user, I would like to be able to message support 24/7 when I need help with the app.

**Test Case 1**

- System: messages.js
- Check to make sure user messages send correctly
- Severity: 2
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Support Page
  - Type message and hit SEND NEW TICKET
- **Expected Result**
  - Message should be displayed on page

**Test Case 2**

- System: messages.js
- Check to make sure sent messages are visible
- Severity: 2
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Support Page
- **Expected Result**
  - User's active and past support messages should be correctly displayed

**Test Case 3**

- System: messages.js
- Check to make sure user messages are stored in the database
- Severity: 2
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Support Page
  - Type message and hit SEND NEW TICKET
  - (As admin) Navigate to college capital firebase console and check support tickets
- **Expected Result**
  - Message should be correctly stored in database

#### Test Case 4

- System: messages.js
- Check to make sure that support messages are encrypted
- Severity: 2
  
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Support page
  - Type message and hit SEND NEW TICKET
  - (As admin) Navigate to college capital firebase console and check to make sure that messages are correctly encrypted
  
- **Expected Result**
  - Messages should be encrypted

**User Story 33 (1 Hour): As an administrator, I would like to be able to respond to support messages 24/7.**

#### **Test Case 1**

- System: messages.js
- Check to make sure administrator receives user support messages
- Severity: 2
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Support page
  - Type message and hit SEND NEW TICKET
  - As administrator, navigate to firebase console
- **Expected Result**
  - Administrator should receive user's support message

#### **Test Case 2**

- System: messages.js
- Check to make sure received messages are correct
- Severity:
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Support page
  - Type message and hit SEND NEW TICKET
  - As administrator, navigate to firebase console
- **Expected Result**
  - Received message should contain the following information:
    - Message contents
    - Sender
    - Time received
    - Options to respond

#### **Test Case 3**

- System: messages.js
- Check to make user receives support responses
- Severity: 2

- **Instructions**
  - Navigate to Firebase console
  - Send message to a user
- **Expected Result**
  - User should receive message from sender under the name of Support

#### Test Case 4

- System: messages.js
- Check to make sure support tickets can be removed
- Severity: 2
- **Instructions**
  - Go to [www.collegecap.org](http://www.collegecap.org)
  - Navigate to Support page
    - Send a support ticket if there are none
  - Click the “Close Ticket” button on any open ticket
  - (As admin) Navigate to college capital firebase console
- **Expected Result**
  - Previously active support tickets should be removed from the database if they are closed.

**User Story 34 (1 Hour): As an administrator, I would like to be able to respond to support messages when the user is offline.**

**Test Case 1**

- System: messages.js
- Check to make sure administrator messages can be sent to offline users
- Severity: 2
- **Instructions**
  - Sign in to Support Gmail account (collegcapteam@gmail.com)
  - Send message to user that has submitted a support ticket
- **Expected Result**
  - Database should store the admin response

**Test Case 2**

- System: messages.js
- Check to make sure messages sent to an offline user are stored and viewable
- Severity: 2
- **Instructions**
  - Sign in to Support Gmail account (collegcapteam@gmail.com)
  - Send message to offline user that has submitted a support ticket
- **Expected Result**
  - Message sent to offline user should be viewable in the database

**Test Case 3**

- System: messages.js
- Check to make sure offline users are notified of a Support message upon logging back in
- Severity: 2
- **Instructions**
  - Sign in to Support Gmail account (collegcapteam@gmail.com)
  - Send message to user that has submitted a support ticket
  - Log in to the offline account
- **Expected Result**
  - User should be presented with a notification that they were sent a support message while they were offline.

#### **Test Case 4**

- System: messages.js
- Check to make sure administrators can differentiate between online and offline users
- Severity: 2
  
- **Instructions**
  - (As admin) Navigate to college capital firebase console
  - Navigate to where user data is stored
  
- **Expected Result**
  - User data should contain an indicator denoting whether or not they are currently online.