

Make College Simple
Team: Make College Simple
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Test 1: Test the User Interface of the app, both in functionality and intuitiveness.

This test relates to the following user stories:

- A. User story 1 from sprint 1: As a designer, I want to create an interface on an android app that is intuitive and easy to use.
- B. User story 2 from sprint 1: As a programmer, I want to get familiar with Android Studio so I can create a basic UI for the app.
- C. User story 3 from sprint 1: As a designer, I want to learn about Android Software Stack and Gradle so I can operate the Android Studio interface with ease.
- D. User story 4 from sprint 1: As an app user, I want to have different views and options on the UI.
- E. User story 2 from sprint 2: As an app user, I want to a basic and easy-to-use layout for the main menu (so that we can have a template to work on.)

How this was tested:

- 1. Start make college simple app; Select “sign in”
 - a. Log into your google account
- 2. User should see a main menu with two pie charts. Then, open the app bar at the top left and select any category on the menu.
 - a. Choose any cost or income item to start
 - b. Enter your category to the item you chose
 - c. Enter cost for the item
 - d. Press okay and go back to previous activity
- 3. User should now see a pie chart with only only item in
- 4. If user scrolls down, they will also see an empty pie chart

Expected Result: The piecharts load on the main menu and displays numbers. It displays the information clearly and is easy to interact with, even for first time users.

Actual Result: The system passed this test. Every member of the group tested this and enjoyed using the interface. Non-members also tested this and believed it was an easy-to-use interface.

Test 2: Test the accuracy of the system’s calculations and if the results of these calculations are displayed correctly.

This test relates to the following user stories:

- A. User story 1 from sprint 3: As a student, I want to see how much my basic expenses (rent, textbooks, transportation, food, etc.) will cost me this year possibly the next few years, so I can know what I can afford.

- B. User story 3 from sprint 3: As a student, I want to see the different ways I can use different sources of money to pay for college.
- C. User story 4 from sprint 3: As a student, I want to see where my money is going, so i can be more aware of my finances.
- D. User story 5 from sprint 3: As a student, I want to see if I have enough financial aid so that I can go to college.
 - i. Be able to edit income and expenses
 - ii. See an overview
 - iii. Add a basic way to store data

How this was tested:

1. Start Make College Simple App; Selected “sign in” or menu button.
2. Open the navigation bar on the left side.
3. Select “Personal” category in Costs piechart or in navigation bar to go to the edit activity
4. Enter a new subcategory “My Stuff” in Personal category and its cost of \$6.00. Then press back button. Changes should be recorded.
5. Enter a new subcategory “Books” in Supplies category and its cost of \$7.00. Then press back button. Changes should be recorded.
6. Enter a new subcategory “My Rent” in Rent category and its cost of \$8.00. Then press back button. Changes should be recorded.
7. Enter a new subcategory “Bus money” in Transportation category and its cost of \$9.00. Then press back button. Changes should be recorded.
8. Enter a new subcategory “UCSC tuition” in Tuition category and its cost of \$5.00. Then press back button. All changes should be recorded, even when the user clicks on a category of each piechart to re-enter a page.
9. User will continue until all they wish to fill in has been filled.
10. Click on a specific slice of the piechart. Click on the pencil icon button on the right of each subcategory item. The value of the current selected subcategory and its cost should be displayed at the top. Enter new values and click enter. All edits should be recorded.

*this was tested many times with a variety of different inputs from all team members.

Expected Result: The piechart is expected to display the totals of each new category. The center of the piechart is expected to display the total which is \$35 ($6+7+8+9+5 = \35). The total is expected to be reflected correctly on the top of the main menu. Everything entered by the user onto the edit activity should be recorded even when the user goes to another page and returns. On the main menu, the pie charts display the total amounts of cost and income in the centers as well as above them at the top of the main menu. The net cost calculated from the two total values is also correct.

Actual Result: The system passes this test. The edit function in the edit activity for each category is slightly buggy because the buttons for editing might be visible even when there are no subcategory values entered. But this does not have much of an effect effect on the overall

total calculations in the piecharts or on the user stories themselves. So aside from this, everything in this app works as expected.

Test 3: Test the functionality of the starting pages and login.

This test relates to the following user stories:

- A. User story 1 from sprint 2: As an app, I want a basic welcome screen so that I can understand what the app is about.
- B. User story 4 from sprint 2: As an app user who wants to keep my financial information secure, I want basic login and register activities.

How this was tested:

1. User starts make college simple; select “new user”
 - a. Sign into your google account
2. User should see a welcome screen with our team and goal
3. Select “click here to configure settings”
4. Select Menu
5. Click on individual menu items

Expected Result: The user signs in successfully after logging in with their google account and is taken to the main menu with the piecharts.

Actual Result: The system passed this test under certain conditions. Our google sign in works only with certain APK (see more under).

Test 4: Test the functionality of the settings.

- C. User story 3 from sprint 2: As a first time user, I want a basic "starting settings" so that I can configure the settings with ease.

How this was tested:

1. Start make college simple app; Select “sign in”
 - a. Log into google account
2. Open the app bar on top left
3. Click “Settings”
4. Select either “Quarter” or “Semester” option
5. Click “Save Changes”
6. Toast at the bottom will appear with selection text and return to main menu

(Note: “save changes” will not actually save the option you selected. It will reset when you re-enter Settings page)

7. Start make college simple app; Select “sign in”
 - a. Log into google account
8. Press app bar on top left
9. Click “Settings”

Expected Result: The user can easily navigate to the settings page using the app bar on the left. The user can save the settings they selected (quarter or semester system), which are reflected in the rest of the app.

Actual Result: The system did not pass this test. The user can go to the settings and configure whether they want a quarter or semester system. But the selected choice is not saved and it does not have an effect on the rest of the app.

Test 5: Test the informativeness of the app's help section.

This relates to the following user stories:

- A. User story 6 from sprint 3: As a student, I want to know how the type of Financial Aid available to me will affect my funds..
- B. User story 2 from sprint 3: As a student, I want to view how potential scholarships and grants could contribute towards my overall finances.

How this was tested:

- 1. User starts make college simple; select "new user"
- 2. User should see a welcome screen with our team and goal
- 3. Open app bar from the top left
- 4. Select help button
- 5. Select a category by clicking the corresponding button to read the information displayed.

Expected Result: The user can get a pretty good idea on the types of Financial Aid available and their effects on one's funds. The user can also view how potential scholarships and grants could contribute towards overall finances.

Actual Result: The system passes this test. Everything works as expected and the information displayed in these pages is correct.

User Stories that were not implemented:

User story 5 from Sprint 2: As an app user, I want basic tutorial so to understand how to use the application.

Explanation: We chose to omit this user story due to time constraints and also because we sought to build an app that was intuitive enough so that first time users would not need a tutorial to understand how to use the tools in our app. Because test 1 passed, the necessity for a tutorial did not seem too crucial and we believed this user story had less priority compared to the other ones.

Bugs and other stuff that doesn't work:

- 1. Google sign in works but it's bypassable.

The google sign in function was correctly implemented and the user can sign in with their google account. However, this will only work for certain APKs. It was not possible to do this with git because every member of the team will build a different APK with their emulators, so we had to circumvent this by adding a button that will take the user to the main menu without signing in.

For instructions regarding google sign in, please refer to signed_apk_instructions.txt in the documents folder.

2. Setup does not load profiles.

3. In the activity to edit the subcategories of each piechart, the user cannot delete subcategories and costs. This feature was not in our user stories but it would have made the app easier to use.

4. Settings does not save. This is reflected in test 4. Due to time constraints we were unable to implement a quarter system and semester system settings in the app.