

# CEN4535C Development of Gaming and Mobile Applications

Fall 2016

## iOS Midterm Programming

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**Due: November 2 (Wednesday, End of Day)**

**Total points: 40**

### **Instructions**

This is a take-home exam. You must write the program by yourself. To submit your program, please compress the files in the project into a zip file and upload the zip file via Canvas. No email submissions.

Your program will be checked using a system for detecting software plagiarism. If your program was found to be very similar to another student's, the grade will be shared by the two students. For example, if two submissions were detected as very similar and one of the submissions scores 40 points, the two students responsible for the two submissions will receive 20 points each. By the same token, if three programs are found to be highly similar, each person will receive 13.33 points.

### **Late submissions**

**No late submissions will be accepted.**

**Question. Panini Recipe App (40 points)**

Create an app for making Panini sandwiches. The first view should show a list of Panini sandwiches, including Benedict Panini, French Toast Panini, Mozzarella Panini, Spinach Lasagna Panini, Salmon Croquette Panini, and Chicken Pesto Panini. Once the user touches the name of a Panini, the app displays another view showing more detailed information about making the Panini, including name, ingredients, cook time and instructions. You can find the information in the following table. On the detail view, provide the user with another button that takes the user to another view showing an image of the Panini. You can find images of Panini on [images.google.com](https://images.google.com). Make sure you scale the image into a suitable size for mobile apps.

Names	Ingredients	Time	Directions
Benedict Panini	Canadian bacon, English muffins, eggs	1 to 2 minutes	Grill the bacon first and then muffins.
French Toast Panini	French bread, eggs, milk, cream cheese	1 to 2 minutes	Whisk egg and milk together.
Mozzarella Panini	Sourdough bread, butter, mozzarella cheese, baby spinach	3 to 4 minutes	Brush one side of bread with butter and place sandwich in grill.
Spinach Lasagna Panini	Ricotta cheese, baby spinach, dried oregano, ciabatta rolls	1 to 2 minutes	Place rolls on a work surface and brush crusts with oil.
Salmon Croquette Panini	Salmon croquette, green onion, minced red bell peppers, Italian rolls	4 to 5 minutes	Place rolls on a work surface and brush crusts with oil.
Chicken Pesto Panini	Italian rolls, butter, basil pesto, roasted chicken breast	3 to 4 minutes	Place rolls on a work surface and brush crusts with oil.

Make sure the following functionalities work properly in your app:

- The entries shown on the list in the master table view. [5 points]

Grading rubrics:

Cases that do not satisfy the requirement	Points
No entries shown in the master view.	0
Missing entries.	3

- The add entry button (+) works properly. (i.e., when the user touches the + button, the app shows the user an empty detail view to add a new receipt. After the user touches the save button, the new entry is shown on the master view.) [10 points]

Grading rubrics:

Cases that do not satisfy the requirement	Points
No empty detail view is shown after add button is clicked (including the case in which a dummy entry is simply added to the master view).	0
No entry added to the master view after the user typed in details in the detail view and clicked on the save button.	5

- The edit button on the master view works properly (deleting an entry from the list). [5 points]
- The transition between views works properly. [5 points]
- The detail view shows the correct information for the selected Panini. [5 points]

Grading rubrics:

Cases	Points
No details shown in the detail view	0
Details are incorrect for the selected entry.	2

- All the detailed information is displayed on the detail view. [5 points]

Grading rubrics:

Cases	Points
Some details missing	2

- A button on the detail view that shows the image of a Panini. [5 points]