

Test Assignment - iOS (JN)

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Last updated Dec 25, 2019

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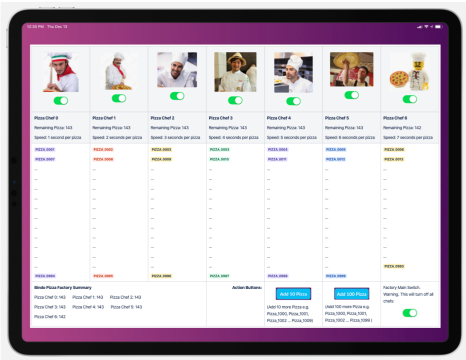
Date	Dec 17, 2019
Author	JN

Introduction





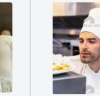


- You will probably be working on the most complicated, challenging iOS application in your life. It is not for the faint of heart.
- If you have the courage to challenge yourself or have any question, we will be happy to help.
- This test assignment is to illustrate to handle multi-thread applications on iOS and deliver quality code.
- You can deliver this assignment in Swift or Objective C
- Please take a video of the completed assignment and share with us.

Bindo Test Assignment - Bindo Pizza Factory

Expected Output

Features / Deliverables	iPad View
Basic Features <ul style="list-style-type: none">• 7 Chefs represent 7 different threads• 1,000 Pizzas will be delivered to 7 staff proportionally at t=0. In other word,• "Pizza n" will be deliver to "Chef (n mod 7)"<ul style="list-style-type: none">◦ Chef 0 to Chef 5 will get 143 pizza, respectively,◦ Chef 6 will get 142 pizza.• All chefs cook pizza at different speed<ul style="list-style-type: none">◦ Chef 0 - 1 second per pizza◦ Chef 1 - 2 second per pizza◦ Chef 2 - 3 second per pizza◦ Chef 3 - 4 second per pizza◦ Chef 4 - 5 second per pizza◦ Chef 5 - 6 second per pizza◦ Chef 6 - 7 second per pizza• I can pause a chef (queue) by tapping on the chef switch. When it's paused, the chef would stop making pizzas and the queue would be idle. I can resume the queue by tapping on the chef switch again• I can pause / resume all chef by using the "Factory Main Switch"• [Add 10 Pizza] Button - Add 10 more pizza to the chef proportionally.• [Add 100 Pizza] Button - Add 100 more pizza to the chef proportionally.	 <p>Refer the below for details</p>
Pizza Modification <ul style="list-style-type: none">• Tap on the "Edit" button of the pizza to modify the pizza<ul style="list-style-type: none">◦ Size(Choose 1): [Small] [Medium] [Big]◦ Toppings (Choose 0, 1 or any number): [Roast Beef] [Bell Peppers] [Mushrooms] [Onions] [Tomatoes] [Margarita]◦ (optional) after modification is done, you can show those details on the screens	Show a pop up with options when the user taps on the "Edit" button of any pizza. Allow the user to modify the pizza if the pizza is not yet made. If already made, show an error "Sorry. Cannot modify a completed pizza"
Caching <ul style="list-style-type: none">• The pizza shall be saved. So, if the user kills the app and reopen the apps, the pizza factory will resume.	-
(Bonus Point) Network Broadcasting / Delegation <ul style="list-style-type: none">• Tap on the "Delegate" button of the pizza to send pizza out to another factory	Show a list of pizza factories available in your network. The pizza shall disappear from the pizza factory and then show up on another pizza factory.

UI to be shown on the iPad

						
Pizza Chef 0 Remaining Pizza: 143 Speed: 1 second per pizza	Pizza Chef 1 Remaining Pizza: 143 Speed: 2 seconds per pizza	Pizza Chef 2 Remaining Pizza: 143 Speed: 3 seconds per pizza	Pizza Chef 3 Remaining Pizza: 143 Speed: 4 seconds per pizza	Pizza Chef 4 Remaining Pizza: 143 Speed: 5 seconds per pizza	Pizza Chef 5 Remaining Pizza: 143 Speed: 6 seconds per pizza	Pizza Chef 6 Remaining Pizza: 142 Speed: 7 seconds per pizza
<div>PIZZA_0000 [Edit] [Delegate]</div> <div>PIZZA_0007 [Edit] [Delegate]</div> <div>...</div> <div>...</div> <div>...</div> <div>... (scrollable)</div> <div>PIZZA_0994 [Edit] [Delegate]</div>	<div>PIZZA_0001 [Edit] [Delegate]</div> <div>PIZZA_0008 [Edit] [Delegate]</div> <div>...</div> <div>...</div> <div>...</div> <div>... (scrollable)</div> <div>PIZZA_0995 [Edit] [Delegate]</div>	<div>PIZZA_0002 [Edit] [Delegate]</div> <div>PIZZA_0009 [Edit] [Delegate]</div> <div>...</div> <div>...</div> <div>...</div> <div>... (scrollable)</div> <div>PIZZA_0996 [Edit] [Delegate]</div>	<div>PIZZA_0003 [Edit] [Delegate]</div> <div>PIZZA_0010 [Edit] [Delegate]</div> <div>...</div> <div>...</div> <div>...</div> <div>... (scrollable)</div> <div>PIZZA_0997 [Edit] [Delegate]</div>	<div>PIZZA_0004 [Edit] [Delegate]</div> <div>PIZZA_0011 [Edit] [Delegate]</div> <div>...</div> <div>...</div> <div>...</div> <div>... (scrollable)</div> <div>PIZZA_0998 [Edit] [Delegate]</div>	<div>PIZZA_0006 [Edit] [Delegate]</div> <div>PIZZA_0012 [Edit] [Delegate]</div> <div>...</div> <div>...</div> <div>...</div> <div>... (scrollable)</div> <div>PIZZA_0999 [Edit] [Delegate]</div>	<div>PIZZA_0006 [Edit] [Delegate]</div> <div>PIZZA_0013 [Edit] [Delegate]</div> <div>...</div> <div>...</div> <div>...</div> <div>... (scrollable)</div> <div>PIZZA_0993 [Edit] [Delegate]</div>
Bindo Pizza Factory Summary (Remaining Pizza to be made) Pizza Chef 0: 143 Pizza Chef 1: 143 Pizza Chef 2: 143 Pizza Chef 3: 143 Pizza Chef 4: 143 Pizza Chef 5: 143 Pizza Chef 6: 142			Action Buttons: <div>Add 10 Pizza</div> <div>Add 10 more Pizza e.g. Pizza_0000, Pizza_0001, Pizza_0002 ... Pizza_1009</div> <div>Add 100 Pizza</div> <div>Add 100 more Pizza e.g. Pizza_0000, Pizza_0001, Pizza_0002 ... Pizza_1009</div>			Factory Main Switch. Warning: This will turn off all chefs: <div></div>



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