

Thank you for participating in this study session! This session asks you to **work individually** to complete the paper-based tasks. The study that you are partaking, which is part of the research on “*Human Factors in Recommender Systems in Requirements Engineering*”, has been approved by the institutional review board at the Mississippi State University (IRB-20-498) led by the principal investigators (PIs), Prof. Tanmay Bhowmik (tbhowmik@cse.msstate.edu) and Prof. Nan Niu (nan.niu@uc.edu). By typing and signing your name below, you agree to have the PIs use your anonymized responses in relevant research. If you opt to NOT take part in the study, then please return this paper copy back. Thank you!

Type your name: _____

Your signature: _____

RE task – reusing user interfaces (UIs) to inspire your own designs

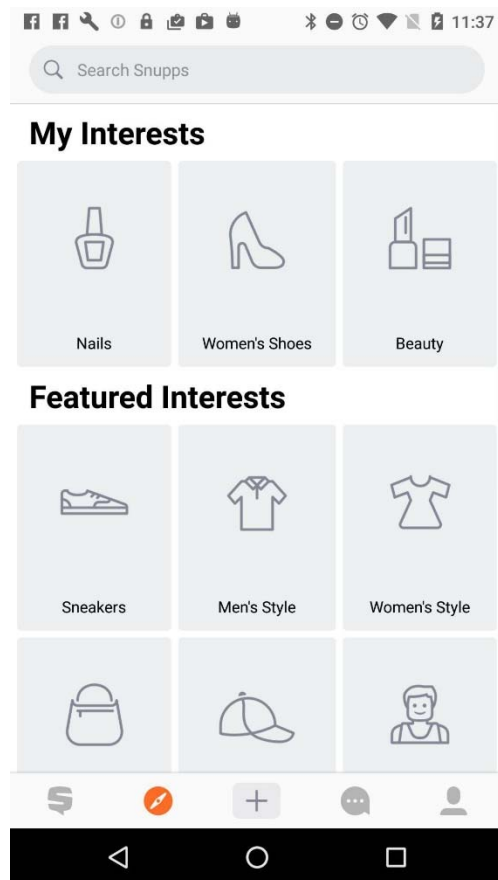
Instructions:

You play the role of a **UI designer**. In each of the five scenarios below, a UI image is given which is referred to as *the original image*. Then, four different options (A, B, C, or D) are provided, each recommending a specific part of the original image and a corresponding requirements phrase. Here, “a requirements phrase” captures some important aspect of stakeholders’ needs and desires, but that phrase is often partial and does not necessarily capture all the important aspects of stakeholders’ needs and desires. From the four options (A, B, C, or D), you shall choose **one and only one** that inspires you the most to reuse the original image to design your own UI related to the corresponding requirements phrase. In addition to making the multiple-choice, you need to explain and/or draw your own UI image to highlight your revision(s). Keep in mind that **reuse** here means using an existing artifact (an original UI image in particular) to create something new. Therefore, your creations/revisions are as important as your reuse.

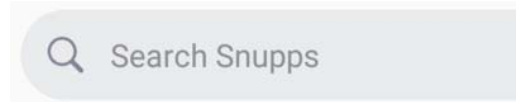
There are five original, to-be-reused UI images. These images are independent from each other. Hence, you shall complete the five UI reuse tasks independent from each other. You can perform the five reuse tasks in any order that you prefer.

You may use the back of the paper to document your responses. If so, explicitly document the scenario number (e.g., scenario 1, scenario 2, ..., scenario 5) so that your responses can be clearly linked. If you need extra papers, reach out to us. Thank you!

Scenario 1's original UI image (given to the LEFT) and its four options (given to the RIGHT):



(A) reuse candidate (i.e., requirements phrase) =
“search bar with shopping categories, discount advertisement and account maintenance”

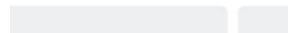


(B) reuse candidate (i.e., requirements phrase) =
“UI for user profile”

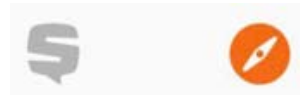


(C) reuse candidate (i.e., requirements phrase) =
“Country code listing”

My Interests



(D) reuse candidate (i.e., requirements phrase) =
“Weekday digest for meal planning”



Your reuse choice is (choose only ONE of A, B, C, or D):

Your own UI design inspired by your chosen reuse candidate (*describe and/or draw – make sure to highlight the revisions; the revisions can be on the UI itself, the requirements phrase, or both*):

Scenario 2's original UI image (given to the LEFT) and its four options (given to the RIGHT):

(A) reuse candidate (i.e., requirements phrase) =
“Country code listing”

SIGN IN

(B) reuse candidate (i.e., requirements phrase) =
“signup with facebook login option”

SIGN IN

(C) reuse candidate (i.e., requirements phrase) =
“Body care products”

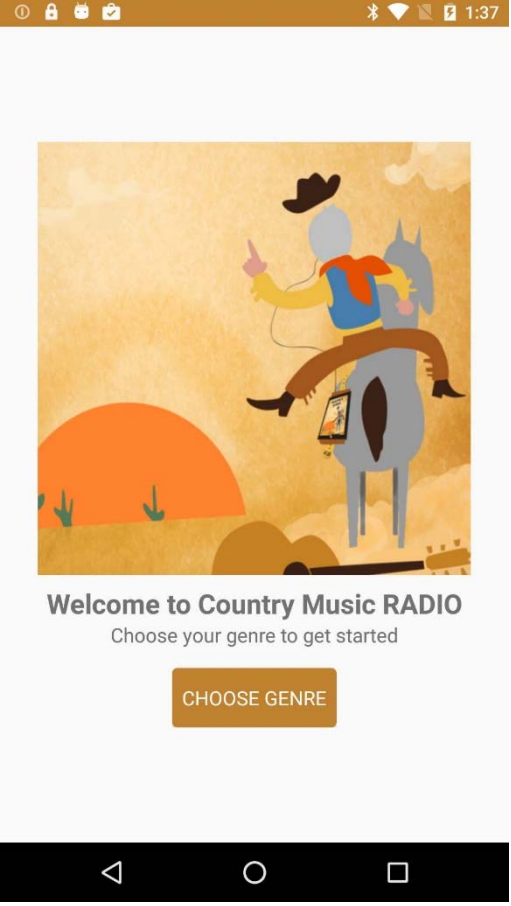
CREATE A HUNGRY PROFILE

(D) reuse candidate (i.e., requirements phrase) =
“information description with login button”

Your reuse choice is (*choose only ONE of A, B, C, or D*):

Your own UI design inspired by your chosen reuse candidate (*describe and/or draw – make sure to highlight the revisions; the revisions can be on the UI itself, the requirements phrase, or both*):

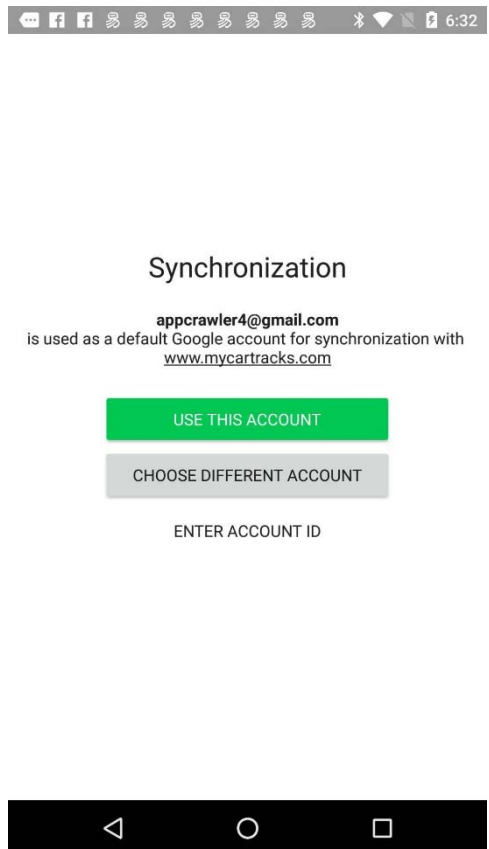
Scenario 3's original UI image (given to the LEFT) and its four options (given to the RIGHT):

	(A) reuse candidate (i.e., requirements phrase) = "choice of interest" Welcome to Country Music RADIO
	(B) reuse candidate (i.e., requirements phrase) = "Country code listing" 
	(C) reuse candidate (i.e., requirements phrase) = "Filter settings for choosing price range, number of beds and baths" 
	(D) reuse candidate (i.e., requirements phrase) = "Country code listing" Choose your genre to get started CHOOSE GENRE

Your reuse choice is (*choose only ONE of A, B, C, or D*):

Your own UI design inspired by your chosen reuse candidate (*describe and/or draw – make sure to highlight the revisions; the revisions can be on the UI itself, the requirements phrase, or both*):

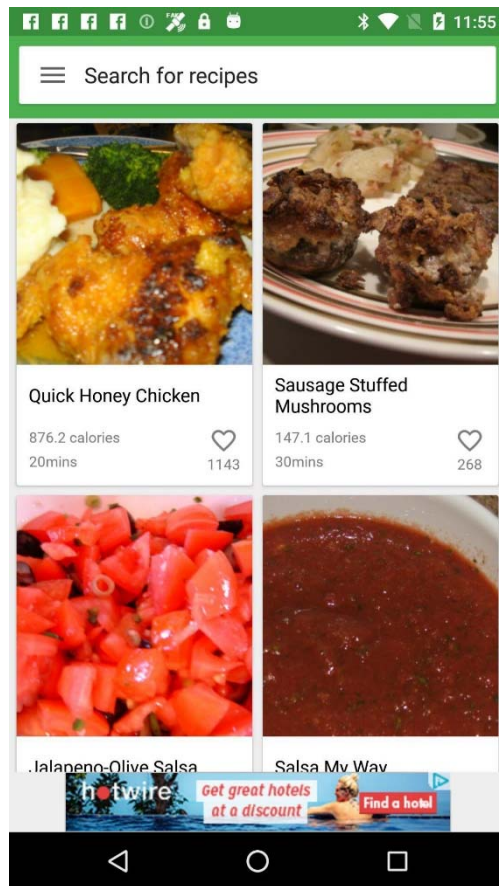
Scenario 4's original UI image (given to the LEFT) and its four options (given to the RIGHT):

	(A) reuse candidate (i.e., requirements phrase) = “a news and an advertisement” Synchronization (B) reuse candidate (i.e., requirements phrase) = “information description with login button” appcrawler4@gmail.com is used as a default Google account for synchronization with www.mycartracks.com (C) reuse candidate (i.e., requirements phrase) = “information description with login button” USE THIS ACCOUNT (D) reuse candidate (i.e., requirements phrase) = “near important places” appcrawler4@gmail.com is used as a default Google account for synchronization with www.mycartracks.com
--	--

Your reuse choice is (*choose only ONE of A, B, C, or D*):

Your own UI design inspired by your chosen reuse candidate (*describe and/or draw – make sure to highlight the revisions; the revisions can be on the UI itself, the requirements phrase, or both*):

Scenario 5's original UI image (given to the LEFT) and its four options (given to the RIGHT):



(A) reuse candidate (i.e., requirements phrase) = **“food recipes”**



(B) reuse candidate (i.e., requirements phrase) = **“Country code listing”**



(C) reuse candidate (i.e., requirements phrase) = **“today storms updates”**



(D) reuse candidate (i.e., requirements phrase) = **“search bar with shopping categories, discount advertisement and account maintenance”**

Search for recipes

Your reuse choice is (choose only ONE of A, B, C, or D):

Your own UI design inspired by your chosen reuse candidate (describe and/or draw – make sure to highlight the revisions; the revisions can be on the UI itself, the requirements phrase, or both):