

Roars part 2:



Receiving a roar from the app to the Internet

Note : for better undersanding of this lesson, the tutorial on JSON should be fresh in your mind

String roars = "https://roar.firebaseIO.com/listofroars.json";

The website where we will get the roars from

ConnectionRequest request = new ConnectionRequest();
request.setUrl(roars);
request.setPost(false);
request.setHttpMethod("GET");
request.setContentType("application/json");

The object « ConnectionRequest » in the box « request », with all actions necessary to connect to the website above

NetworkManager.getInstance().addToQueueAndWait(request);

ByteArrayInputStream allRoarsInBytes = new ByteArrayInputStream(request.getResponseData());

This line actually gets the data from the Internet

String responseInString = Util.readToString(allRoarsInBytes, "UTF-8");

Converting the data received to text

JSONObject allRoarsInJsonFormat = new JSONObject(responseInString);

Converting the text into a JSON object, which is is a list of roars

The JSON object we received looks like that (here, the example of receiving just 2 roars):

JSONArray listOfRoarIds = allRoarsInJsonFormat.names();

Collecting all the names (or « titles ») of the roars.

So listOfRoarlds contains: -JywLB4G80ErGN3dsI_c and -JywNGfPCEUDmGxJ3AXw

Form wallScreen = this.getComponentForm();

"this" -> the box containing the button were the user just clicked.

"getComponentForm()" -> action that picks the screen where the
button is situated. So, that's Screen3!

We put this screen in a box to use it later

Container myContainerForAllRoars = new Container(); Layout myLayout = new BoxLayout(BoxLayout.Y_AXIS); myContainerForAllRoars.setLayout(myLayout); Creating a Container, creating a Box Y Layout, then saying that the Container should have this layout This container is going to contain all roars.

Now, we are going to take each of the roars we received and put them on screen.

#





In simple words, the lines of code below are doing the following:

"We'll start counting roars we received from Internet, starting at roar number zero.
2 While our counter of roars is lower than the total number of roars,
Get the title corresponding to the roar (so, for the 1 st roar that is -JywLB4G80ErGN3dsI_c)
4 - Get the JSON object corresponding to this title. So, for the 1 st roar that is
{"author": "seinecle",
"roar": "This is an example of a roar"}
Get the value corresponding to the title "author" ("seinecle" for the 1 st roar), put it in a box "author"
Get the value corresponding to the title "roar" ("This is an example of a roar" for the 1 st roar), put it in box "roa
- Create a container
8 - Create a label with the text of the box "author"
Oreate a label with the text of the box "roar" Oreate a label with the text of the box "roar"
Put these labelsin the container we just created
 Add the container to the container "myContainer" created on the previous page (see #)
Move on to the next roar by adding 1 to our counter of roars
When we have finished looping through all the roars we have received,
Add the bigger container (now containing all the labels representing the roars and their authors) to the
screen. We add it in the last position, which is position "number of components already present on the
screen". This number is obtained with the method getComponentCount() from the screen
- Refresh the screen so that the roars we added can appear"
Nerresh the screen so that the roars we added can appear
1 Integer counterOfDears - 0
1) Integer counterOfRoars = 0;
2) while (counterOfRoars < allRoarsInJsonFormat.length()) {
String idOfOneRoar = listOfRoarlds.getString(counterOfRoars);
JSONObject oneRoarInJsonFormat = (JSONObject) allRoarsInJsonFormat.get(idOfOneRoar);
33011031jeet onerloarmisom ormat (33011031jeet) amtoursmissom ormatiget(1001011eitour),
String author = oneRoarInJsonFormat.getString("author");
String roarText = oneRoarInJsonFormat.getString("roar");
Container myRoarContainer = new Container();
8 Label myLabelForAuthor = new Label(author);
Label myLabelForAuthor = new Label(author); Label myLabelForRoar = new Label(roarText);
Label my Labell of Noal - new Labell Text),
myRoarContainer.addComponent(myLabelForAuthor);
myRoarContainer.addComponent(myLabelForRoar);
myContainerForAllRoars.addComponent(myRoarContainer);
counterOfRoars = counterOfRoars + 1;
} End of loop, go back to 2
wallScreen.addComponent(wallScreen.getComponentCount(), myContainerForAllRoars);

wallScreen.revalidate();