Making Web Programming Simpler: a Seaside Tutorial

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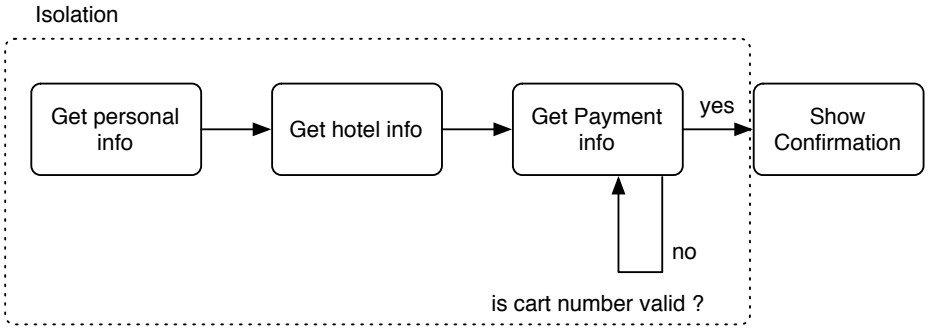
1 RegConf: An Application for Registering to a Conference

The goal of this tutorial is to give you a feeling on creating a web application using Seaside. RegConf is a tool intended to help people to register to a conference.

Four step are necessary to complete such a registration:

1. A participant has to enter some personal data such as firstname, name, the institute where she is attached, and her email address. Then,
2. Some information about the hotel are required. For instance a room can be single or double in an hotel ranked between 1 and 4 stars. A price has then to be computed.
3. Finally informations regarding the payment are required. Once the credit card number, the issue date, and the type are entered,
4. A confirmation screen shows a summary of what was entered.

The flow of the application is described in the following figure.



The dashed rectangle designate the part of the application which is *isolated*. This means that once the flow of the running application leaves this box, there is no way to come back in it, specially using the back button.

2 Application Building Blocks

2.1 The Entry Point: RCMain

The control flow of the application has to be described in a task's go method. This method also represent the entry point of the application. Thus a name like RCMain sounds appropriated (RC stands for RegConf).

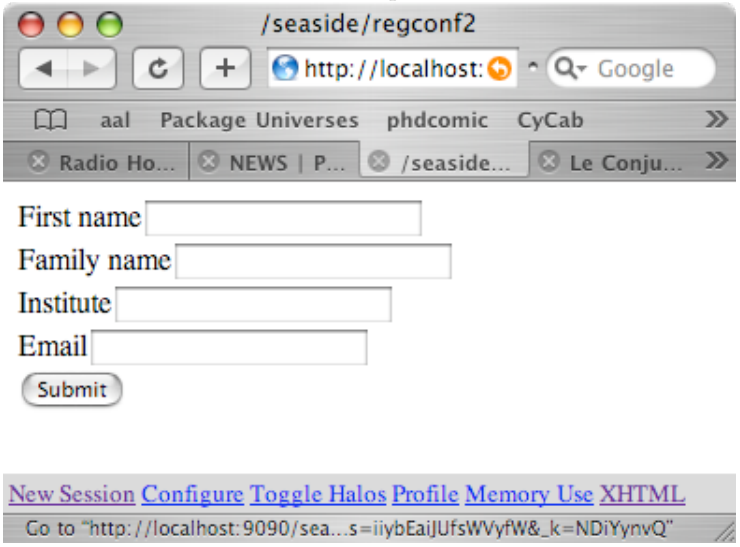
Your job: Create a task RCMain with a go method that describes the control flow of the application.

Your job: Start the web server on by executing WAKom startOn: 9090 .

Your job: Create an initialize method on the class side to register your application in Seaside under the name regconf .

2.2 Getting User Information: RCGetUserInfo

All the control flow is defined in the class you previously defined. Getting user information is implemented as a normal seaside component (i.e., subclass of WAComponent). Instance variables of this class should reflect the structure of a user. Pressing the *submit* button returns to the caller component using answer: . Fetching the participant's informations can be done using text fields and submit button. Here is an example:



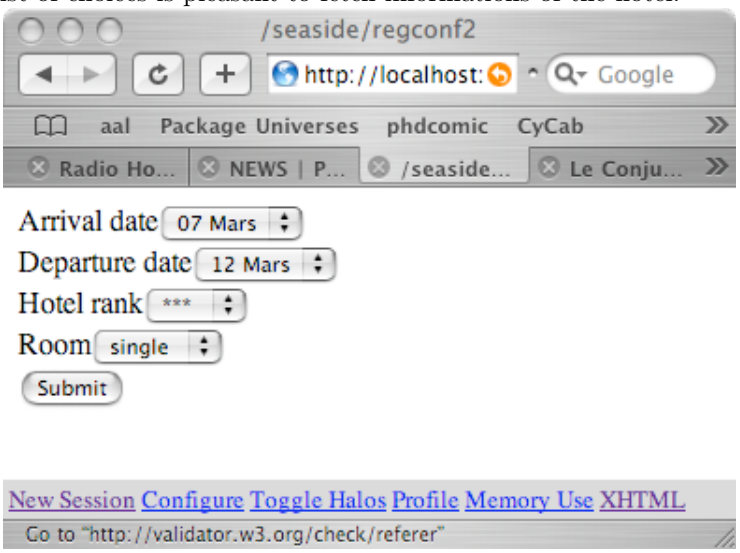
Your job: Write the method renderContentOn: in RCGetUserInfo .

Your job: Try your application using your favorite web browser. Make it point to http://localhost:9090/seaside/regconf .

The information passed around different states of the application can be contained in a dictionary. A more advanced design would require a class User for which an instance is passed around through.

2.3 Getting Hotel Information: RCGetHotelInfo

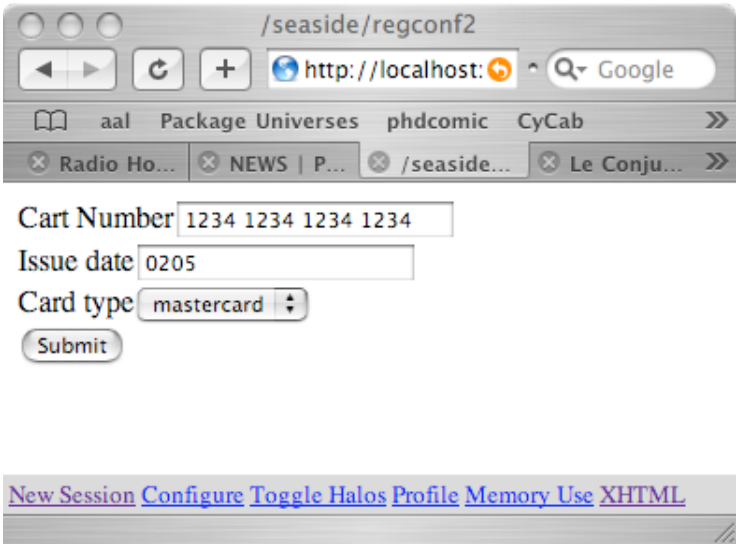
A list of choices is pleasant to fetch informations of the hotel.



Your job: Write the class RCGetHotelInfo

2.4 Payment: RCPayment

The payment is valid only if 16 number was provided and if the issue date is not over.



Your job: Write the class RCPayment

2.5 Confimation: RCConfirmation

Once the payment is done, it is nice to show a summary of what was done.

Your job: Write the class RCConfirmation