

Exercises: MVP Framework

Make a copy of the GwtMVP2 Eclipse project and name it “ExercisesMVP2” (or some such – my solution set is called GwtMVP2Excercises).

- 1.** I explained during lecture time that the view should ideally not save any state. However, the Google-provided example violates this practice. The `HelloViewImpl.java` stores the ‘name’ as a local instance variable. Fix this. Remember it’s the Presenter’s responsibility to cache data (i.e., to contain state). Remember that in GWT MVP framework, the Presenter interface is defined by the view and implemented by the Activity associated with that view.
- 2.** Create a button inside the `HelloView`. On click of that button, an alert box should pop up showing a random number within some hardcoded range. Once that random number is shown, any subsequent clicks on the button should show the *same* number as it showed the first time, i.e., no new random number should be generated.
- 3.** Create a new Place called `SameRandomNumberPlace`. It should know how to interpret a single token string that will be a range within which to generate a random number. Create `SameRandomView` and its `UiBinder`-based implementation. The view should be very simple: just a place to display a number, nothing more. Place an `Anchor` widget into the `HelloView`. When that anchor is clicked, it should go to the `SameRandomNumberPlace`, passing it the range that’s currently stored in `HelloActivity`. The end result should be such that the `SameRandomView` is displayed with the random number within the passed-in range.

Where did you save the random number for the `SameRandomNumberActivity`?
What can you do such that every time you navigate to the `SameRandomNumberActivity`, the random number generated once stays the same?

Even if you copy/paste the same logic from #2 and make the number stay the same (by doing whatever), when you refresh the page, a new random number will show up. Why is that?

- 4.** Create a button in the `SameRandomView` with the caption “Show Range”. Upon clicking on that button, an alert should pop up showing the user the range within which the random number was created.
- 5.** Test the project in production mode and deployed mode.