

# Session Beans

- 1.** Install JBoss or Glassfish and configure Eclipse to recognize it. Start the server in Eclipse and access <http://localhost:8080/>.
- 2.** Make an EJB project with an interface `RandomNumber` and a concrete class `RandomNumberBean`. Give it two methods: `findNum` (no arguments, returns random number between 0 and 1) and `findNumInRange` (takes a double as an argument and returns a number between 0 and that number). Make it a remotely-accessible stateless session bean. Deploy the project to your app server.
- 3.** Make a standalone client that can access the bean. Test out both methods. Use a Dynamic Web project so that you can later add servlets to it. But this client should just have a “main”, and can be executed from within Eclipse (R-click, Run As, Java Application) without deploying the project.
- 4.** Add a new class to your EJB project called `RandomNumber2`. Make it a stateful session bean. Give it four methods:
  - `setupNum(range)`: sets the initial value to be a number in that range
  - `currentValue()`: returns the current value of the number
  - `doubleNum()`: doubles the stored number
  - `done()`: tells app server to gc (garbage collect) the object
- 5.** Test your bean from a standalone client.
- 6.** Test your bean from a servlet.