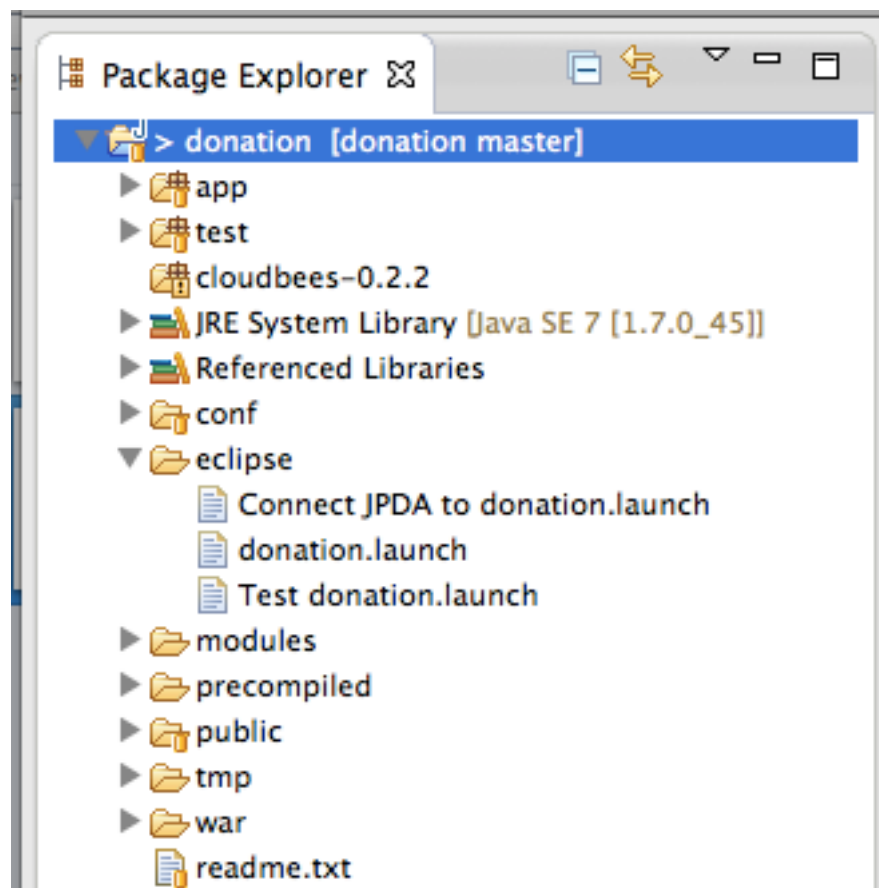
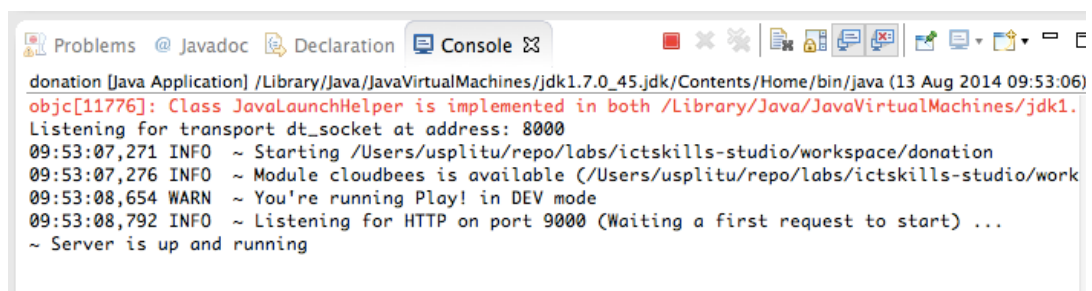
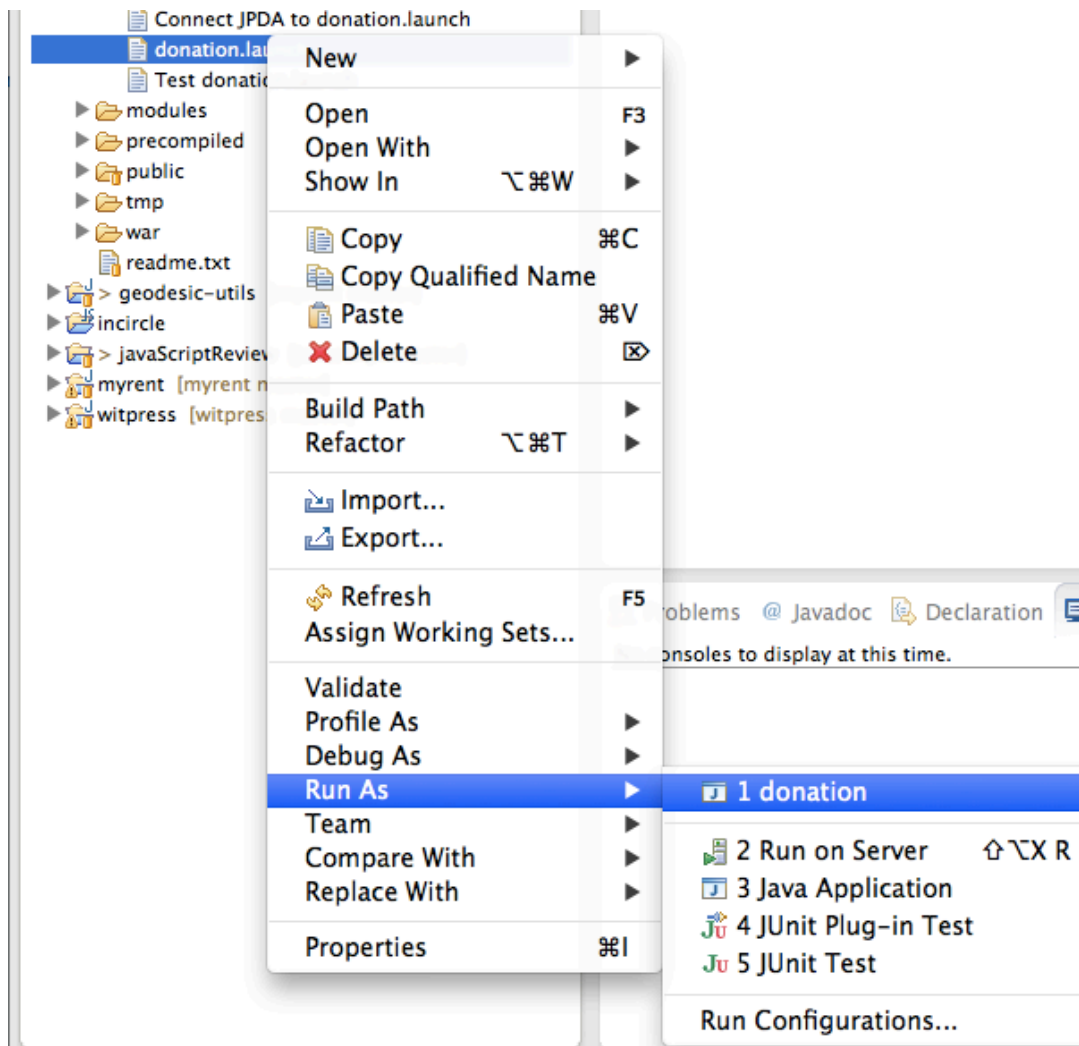


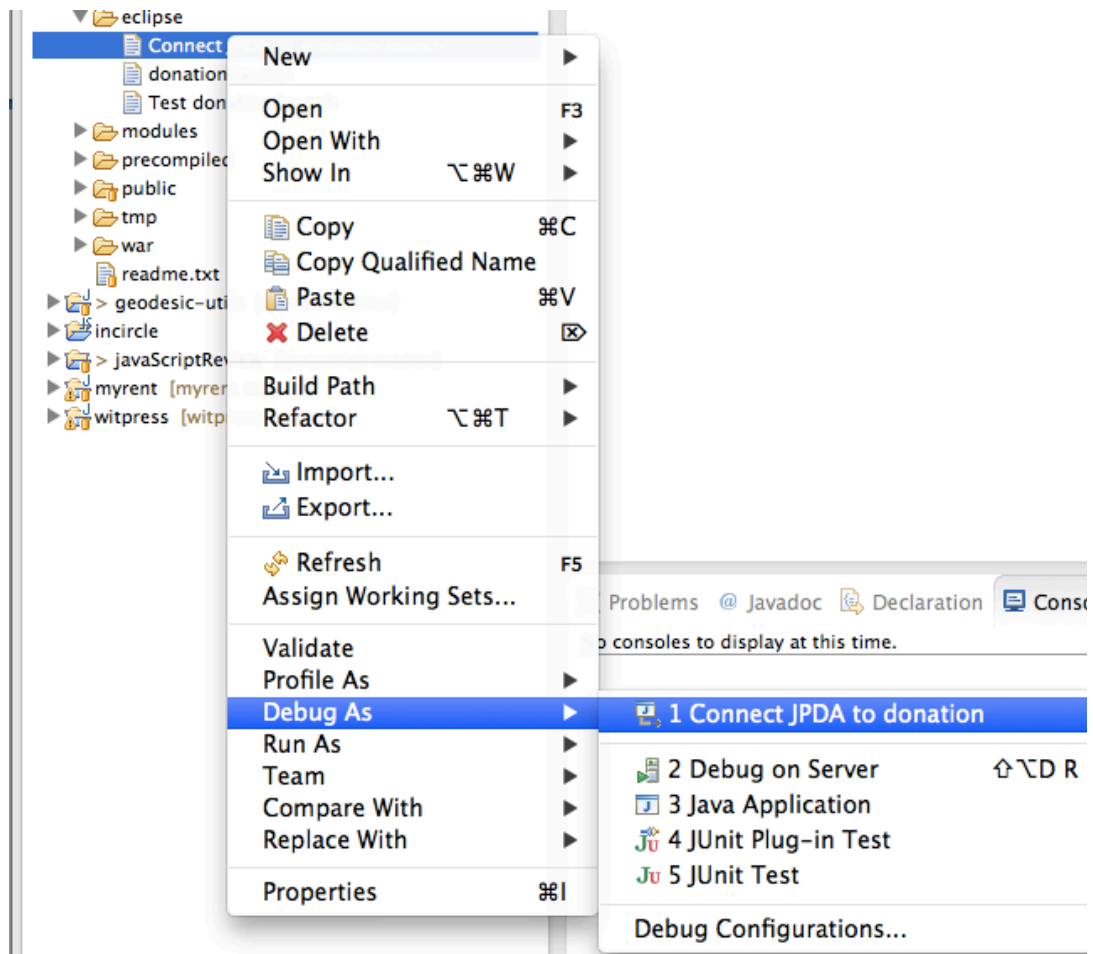
## How to use Eclipse debugger with Play framework

Assume the project name is *donation*.

1. Ensure the project name in the file *application.conf* is *donation*.
2. Ensure *donation* app is not running.
3. Re-run *play eclipsify*.
4. In *donation/eclipse* folder:
  - a. Select *donation.launch*.
    - i. In context menu
      1. *Run As | donation*
      2. Check console window to verify server running
  - b. Select *connect JPDA to donation.launch*.
    - i. In context menu
      1. *Run Debug As | Connect JPDA to donation*
  - c. See screen shots below.
5. Place breakpoints where required in controller & model code.
6. Browse to localhost:9000
  - a. Perform some action, for example, sign in, whose execution path contains breakpoint.
  - b. Program halts at breakpoint. Use function keys or icons to:
    - i. F5 : Step into
    - ii. F6 : Step over
    - iii. F7 : Return from method
    - iv. F8: Run to next breakpoint.







## Log-in

Email

Password

LOGIN

Debug | Package Explorer | Servers

Connect JPD to donation [Remote Java Application]  
Java HotSpot(TM) 64-Bit Server VM [localhost:8000]  
Thread [DestroyJavaVM] (Running)  
Thread [New I/O server boss #1 ([id: 0x664259e4, /0:0:0:0:0:0:0:0:9000])] (Running)  
Thread [New I/O worker #1] (Running)  
Thread [play-thread-1] (Suspended (breakpoint at line 56 in Accounts))

Accounts.authenticate(String, String) line: 56  
NativeMethodAccessorImpl.invoke0(Method, Object, Object[]) line: not avail  
NativeMethodAccessorImpl.invoke(Object, Object[]) line: 57  
DelegatingMethodAccessorImpl.invoke(Object, Object[]) line: 43

Variables | Breakpoints

Name	Value
email	"homer@simpson.com" (id=48)
password	"secret" (id=53)

Accounts.java

```
49     index();
50 }
51
52 public static void authenticate(String email, String password)
53 {
54     Logger.info("Attempting to authenticate with " + email + ":" + password);
55
56     User user = User.findByEmail(email);
57     if ((user != null) && (user.checkPassword(password) == true))
58     {
59         Logger.info("Successful authentication of " + user.firstName + " " + user.lastName);
60         session.put("logged_in_userid", user.id);
61         DonationController.index();
62     }
63     else
64     {
```

Console | Tasks

donation [Java Application] /Library/Java/JavaVirtualMachines/jdk1.7.0\_45.jdk/Contents/Home/bin/java (13 Aug 2014 09:53:06)  
09:53:08,792 INFO ~ Listening for HTTP on port 9000 (Waiting a first request to start) ...  
~ Server is up and running  
09:55:18,535 INFO ~ Connected to jdbc:h2:mem:play;MODE=MYSQL  
09:55:19,750 INFO ~ Application 'donation' is now started !  
09:55:21,246 INFO ~ Landed in Welcome class  
09:55:42,041 INFO ~ Attempting to authenticate with homer@simpson.com:secret