

Shimari Project Bot Architecture

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Shimari: 1. n., A simple, strong, flexible, light weight enclosure from which rapid extension is possible in the game of Go; 2. n., A simple, flexible, light weight enclosure for standalone Java applications.

The Shimari Project Bot Framework is a demonstration of the capabilities of the Shimari Project component enclosure. It's free software licensed to under the GNU General Public License (GPL). This document is a brief overview of what you will find in the shimari-m1.zip distribution.

Shimari Framework: `com.shimari.framework`

The Shimari framework on which the bot architecture is implemented mostly contains a simple, light weight software launch and configuration package. Key application elements (beans) are defined in a simple configuration file. The Shimari reads the configuration file and constructs the application. The relationship between components is fully specified in the configuration file; components are able to look each other up by name; and application launch and lifecycle is wholly managed by the framework. But that's it: it's light weight. If you need something heavy weight, install some colossus of a J2EE server.

Justin's Bot: `com.shimari.bot`

The bot architecture is component based, relying heavily on the Shimari Framework: you instantiate a Bot object, and configure it with various handlers, cron tasks, and other components. Then hook them all together via the configuration file, and throw in an IRC connection component or two. The Bot object provided contains the code to select the right handler, stay connected to the IRC servers, and execute periodic tasks as necessary.

Foresight Exchange Protocol: `com.shimari.fxtp`

The sample application packaged with J-Bot is an IRC Bot that connects to the Foresight Exchange: www.ideosphere.com. The Foresight Exchange is an online futures market in which participants invest play money into political and scientific event futures—for example, who will win the next American election, or whether or not P=NP. The FXTP classes implement a client library which can talk to the Foresight Exchange server to get quotes, retrieve the ticker, view user statistics, and place orders. In addition to its use in the sample application, the library may prove useful for anyone developing automated trading agents or GUI tools for the Foresight Exchange.

FXBOT: `com.shimari.fxbot`

Pulling all the above together into a useful and fun demonstration application, **fxbot** provides an IRC interface to the Foresight Exchange game. The bot will alert you of trades you are interested in, allow you to query current market conditions, as well as log in and place orders. Regular users of the Foresight Exchange may find this a more suitable interface to the game than using the traditional web interface.

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