Simian Army

Singleton

Singleton Class

MonkeyRunner

```
public enum MonkeyRunner {
    /** The instance. */
    INSTANCE;
    /** The Constant LOGGER. */
    private static final Logger LOGGER = LoggerFactory.getLogger(MonkeyRunner.class);
     * Gets the single instance of MonkeyRunner.
     * @return single instance of MonkeyRunner
    public static MonkeyRunner getInstance() {
        return INSTANCE;
```

Client

BasicMonkeyServer

```
public class BasicMonkeyServer extends HttpServlet {
   private static final Logger LOGGER = LoggerFactory.getLogger(BasicMonkeyServer.class);
   private static final MonkeyRunner RUNNER = MonkeyRunner.getInstance();
```

```
@Override
public void init() throws ServletException {
    super.init();
    configureClient();
    addMonkeysToRun();
    RUNNER.start();
}
```

Role of MonkeyRunner

In charge of Monkeys

```
* Start all the monkeys registered with addMonkey or replaceMonkey.
public void start() {
   for (Monkey monkey : monkeys) {
       LOGGER.info("Starting " + monkey.type().name() + " Monkey");
       monkey.start();
* Stop all of the registered monkeys.
public void stop() {
   for (Monkey monkey : monkeys) {
       LOGGER.info("Stopping " + monkey.type().name() + " Monkey");
       monkey.stop();
```

Enum Singleton

- Easy to write
- Lazy loaded
- Thread-safe
- Automatically handle serialization