Team Liza Milestone 3

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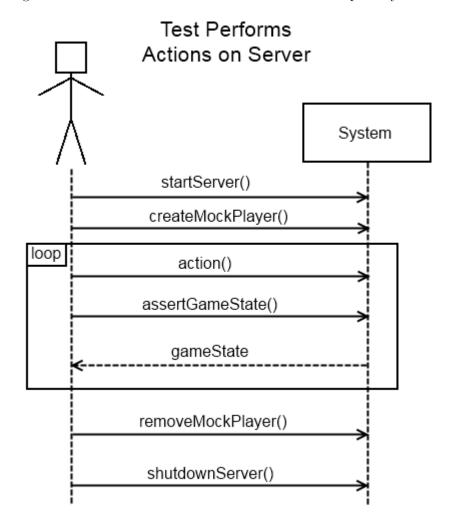
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1 System Sequence Diagrams (SSD)

There are many SSDs that will apply to this project – one for each assertion. However, each of these will follow the exact same format. Instead, we produced a single SSD that details the flow of a test case that a developer may write.



2 Operational Contracts (OC)

There are no operational contracts necessary for our system, as all system calls are simple and often do not create instances of classes.

3 Package Diagram

There exists a degree of separation between our system and Bukkit, in the sense that our system interacts with Bukkit, yet Bukkit is not aware of our system. However, all of the classes in our system will all belong to the same package, due to the high amount of interaction between classes. Because of this, a package diagram is not applicable.

4 Class Diagram

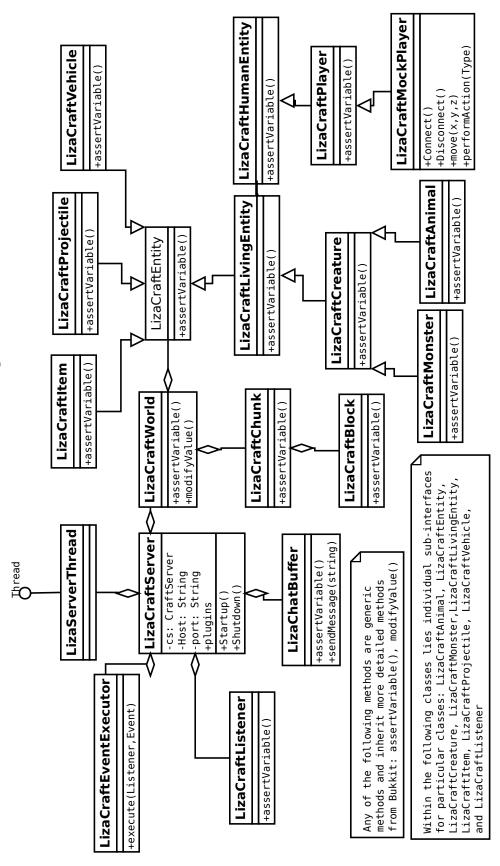
The diagram is found on the following pages.

Bukkit has two main layers: Bukkit, which is a collection of interfaces that a plugin developer utilizes, and CraftBukkit, which is the implementation of those interfaces. Our system will mirror this design. There is Liza, which is a set of interfaces that inherit the Bukkit interfaces, and LizaCraft, which is the implementation of the Liza interfaces and extends the CraftBukkit classes. By extending the existing Bukkit and CraftBukkit, we present the API that the developers are accustomed to, along with any new methods that may be of use for testing, such as asserting properties.

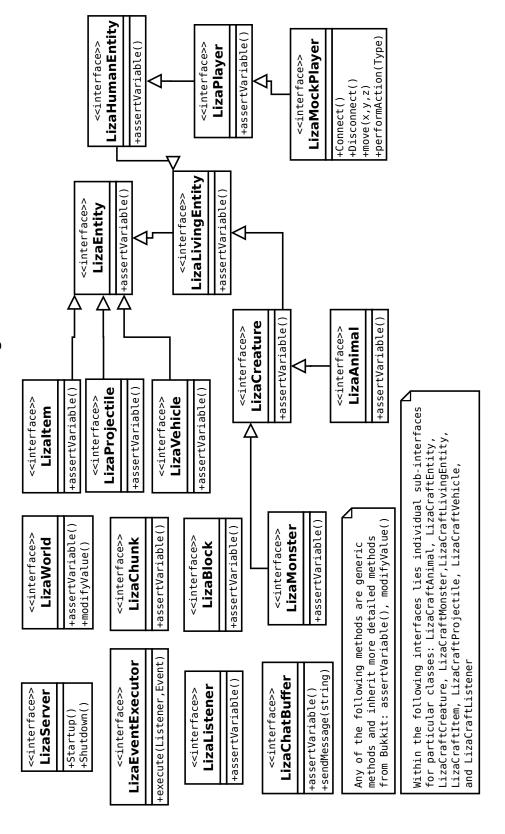
There are a few new classes, however. LizaMockPlayer and its associated implementation represent the automated player that the developer commands. LizaMockPlayer and LizaPlayer are separated because the latter asserts properties of any player, while the former controls only the automated player.

 $\label{lizaListener} \mbox{LizaEventExecutor handle the listening and spoofing of events, respectively.}$

LizaCraft Class Diagram



Interface Class Diagram



5 Prototype

 $The prototype for this milestone is currently available on github online at \ https://github.com/geislekj/Liza$