<u>**User Manual**</u>

System Requirements
To run the application, you should make sure that a Java JDK is installed on Windows. The environment variable PATH must include the path to the bin directory of the Java JDK. Each script must be executed from the project's root directory.

Steps for compiling the code
Run the Compile.bat script to compile the code in the src directory. The class files are generated in the bin directory. The Compile.bat file runs the following commands:

> **del bin***
> **copy src* .\bin**
> **chdir bin**
> **javac Krislet.java**
> **chdir ..**

Note: The del command will need user input [Y/N].

Steps for starting the server and the monitor
Run the StartServerAndMonitor.bat script to initialize the server and monitor. For the server, a command prompt screen opens. For the monitor, the GUI shown below opens.

Figure 1

The StartServerAndMonitor.bat script runs the following commands.

> **chdir rcssserver-14.0.3-win**
> **start rcssserver.exe**
> **timeout /t 3**
> **chdir ..\rcssmonitor-14.1.0-win**
> **start rcssmonitor.exe**

Note: Three second delay is added so that the server can successfully create a socket. If the delay is absent, then the monitor may not initialize properly.

Starting soccer agents

TeamStart.bat script starts ten soccer agents in total. There are two teams. Each team has five agents. In Figure 2, red and yellow circles represent the soccer agents.

Figure 2

The commands mentioned below can be used to start a single soccer agent:

> // Change current directory bin
> **chdir bin**
>
> // The command below starts a soccer agent which will use Krislet's planner (modified) implementation
> **start java Krislet -team Carleton -mode modified**
> **ping localhost**
>
> // The command below starts a soccer agent which will use Krislet's original implementation
> **start java Krislet -team University -mode original**
> **ping localhost**

Note: "ping localhost" adds a 1 second pause so that the agent can connect to the server properly.

Quitting the game

Run the Exit.bat script to exit the server, monitor, soccer agents and the network socket. Exit.bat script runs the following commands:

> **taskkill /F /IM rcssserver.exe**
> **taskkill /F /IM rcssmonitor.exe**
> **taskkill /F /IM java.exe**
> **netsh winsock reset**