

Sprint-7

Backlog	Estimation in hours (per person)	Total working hours	Status
Learning LUA Scripting	15	75	Done
Interface Eclipse And V-Rep	25	125	Done

Considering this is a short sprint we are given two things to deal with

- 1.getting more involved into LUA scripting
- 2.Interface between Eclipse and V-REP.

We learnt LUA scripting as we need to understand the code which is given and we known where can we insert the command to start the Remote API.

The interface between V-REP and Eclipse is done in the following steps:

- We have taken pioneer 3d robot as assertion and as it will have the pre defined code which will follow its own properties
- We inserted new cuboid to enable our Remote API with the command "simExtRemoteApiStart(19999)".
- And this is associated as a child script for the pioneer 3d robot and the functionality of the robot is disabled
- Now we have checked interface with a program which can count the number of objects in the given scene.we wrote the corresponding code in Eclipse
- After finishing when we start the robot in V-REP and once we run the program in Eclipse,we observed in the console Interface is successful.
- And the output is observed with the number of objects in the scene

Issues occurred:

The main issue occurred in this sprint is regarding .dll files inclusion.

once after installing V-REP we got the library files which will support their respective programming languages,in this case we got Java,Matlab,Python(path:C:\Program Files (x86)\V-REP3\V-REP_PRO_EDU\programming\remoteApiBindings\java\lib).

We can find remoteapi.dll and remoteapijava.dll. we should include these files in order to get the interface working.

We have to add these files to our workspace(path:C:\users\account name\workspace) in Eclipse,then we can see our interface working.