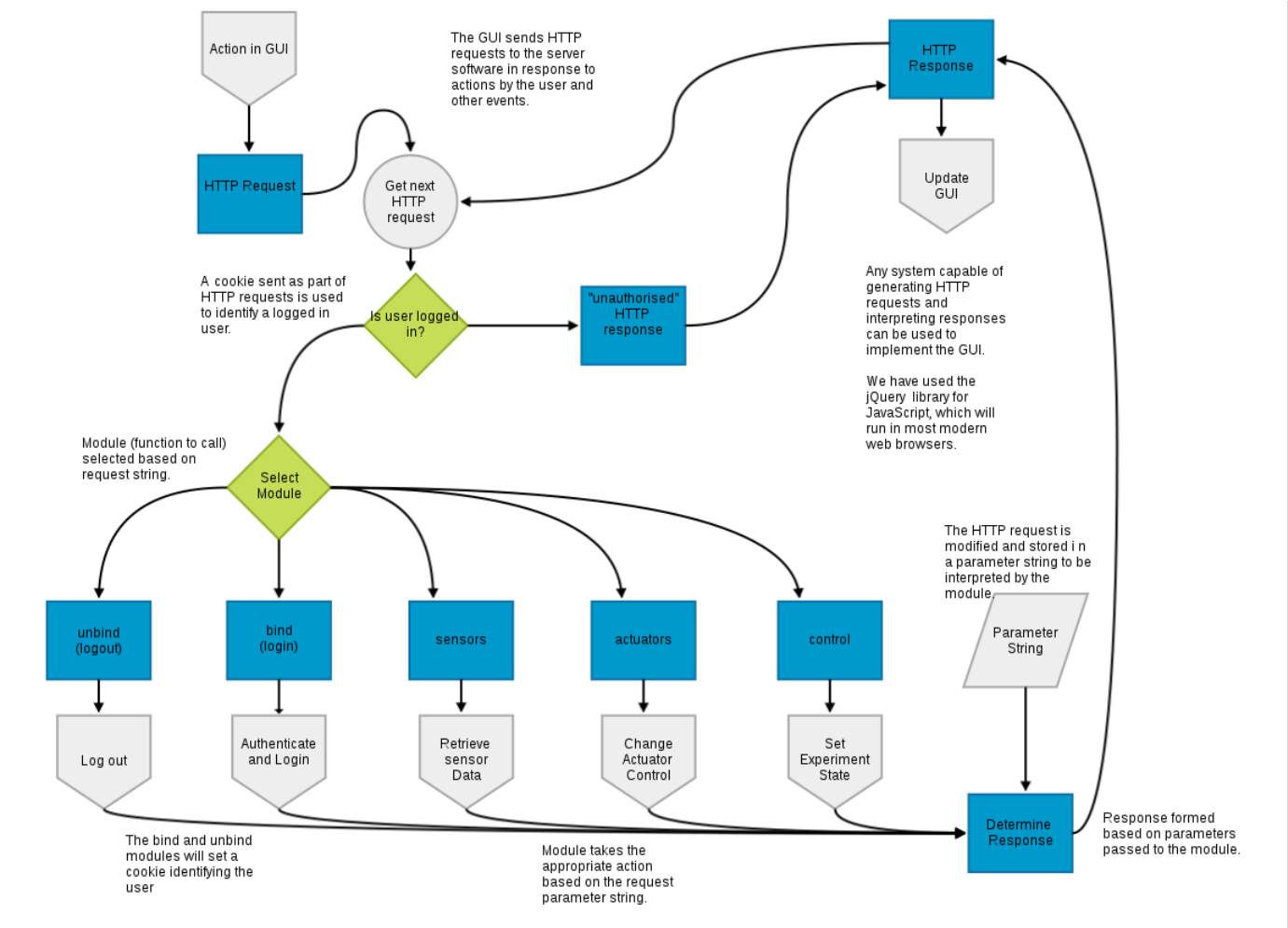
Action in GUI
The GUI sends HTTP requests to the server software in response to actions by the user and other events.
HTTP Response
HTTP Request
Get next HTTP request
Update GUI
A cookie sent as part of HTTP requests is used to identify a logged in user.
Is user logged in?
"unauthorised" HTTP response
Any system capable of generating HTTP requests and interpreting responses can be used to implement the GUI.
We have used the jQuery library for JavaScript, which will run in most modern web browsers.
Module (function to call) selected based on request string.
Select Module
The HTTP request is modified and stored i n a parameter string to be interpreted by the module.
unbind (logout)
bind (login)
sensors
actuators
control
Parameter String
Log out
Authenticate and Login
Retrieve sensor Data
Change Actuator Control
Set Experiment State
Determine Response
Response formed based on parameters passed to the module.
The bind and unbind modules will set a cookie identifying the user
Module takes the appropriate action based on the request parameter string.