Creating a Remote Panel Steps (with NXG)

1. Configure the NI web server on your hosting device with desired security level: [Configuring NI Web Server - NI Web Server 18.2 and Later Manual](https://www.ni.com/documentation/en/ni-web-server/latest/manual/configuring-ni-web-server/)
2. Create a project with a web service. Create a new web resource VI that creates a connection with the web server. This is the main VI which takes inputs and sends out outputs. A url is created automatically based on the connector pane of the VI. See the following for details: [Tutorial: Creating and Accessing a LabVIEW Web Service (Real-Time, Windows) - LabVIEW](https://zone.ni.com/reference/en-XX/help/371361R-01/lvhowto/build_web_service/)
3. Can test to see if everything is working by starting the project web service and inputting the VI url into a browser with values for the inputs.
4. When everything is working, publish the web service. The url should now be able to be called at any time. See the following for specific publishing cases: [Publishing a Web Service (Real-Time, Windows) - LabVIEW](https://zone.ni.com/reference/en-XX/help/371361R-01/lvconcepts/ws_distributing/)
5. Create a new NXG WebVI, design the front panel to display the desired outputs/inputs. Use the HTTP GET function to input the main VI url (with input variables defined) to get the output of the main VI.
6. When finished, run the Web VI in NXG to test if it works. If it's ready, create a build of the VI by going to SystemDesigner, right-clicking on the Web VI, and selecting build.
7. Copy the built folder into **C:\Program Files\National Instruments\Shared\Web Server\htdocs**. The html code is now accessible in a browser by inputting **http://<ipaddress>:<portnumber>/<Folder name inside htdocs>/<HTML file name.html>** into your browser url. This should load a working remote panel. See the following for details on this process: [NXG WebVI : Develop, Deploy and Host a Simple Web Game](https://forums.ni.com/t5/Example-Code/NXG-WebVI-Develop-Deploy-and-Host-a-Simple-Web-Game/ta-p/3925438?profile.language=en)
8. Possible route for deploying the code on a cRIO: [Hosting a LabVIEW Web Service and an NXG Web VI in a Remote System](https://knowledge.ni.com/KnowledgeArticleDetails?id=kA00Z000000kHTbSAM&l=en-US)

You can use my code at [GitHub: Remote Panel Example](https://github.com/Acquire-Data-Solutions/Remote-Panel-Example) to try the process.