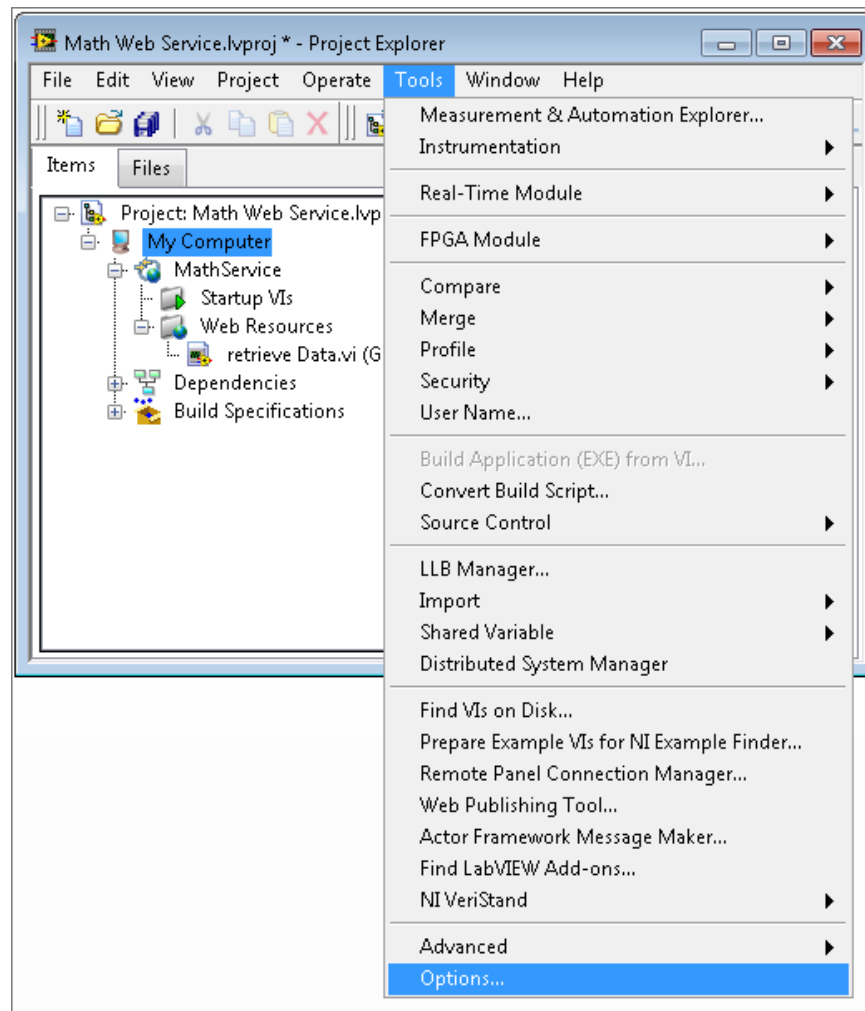


Creating a Cross-Platform App for Remote Data Analysis – Accelerometer

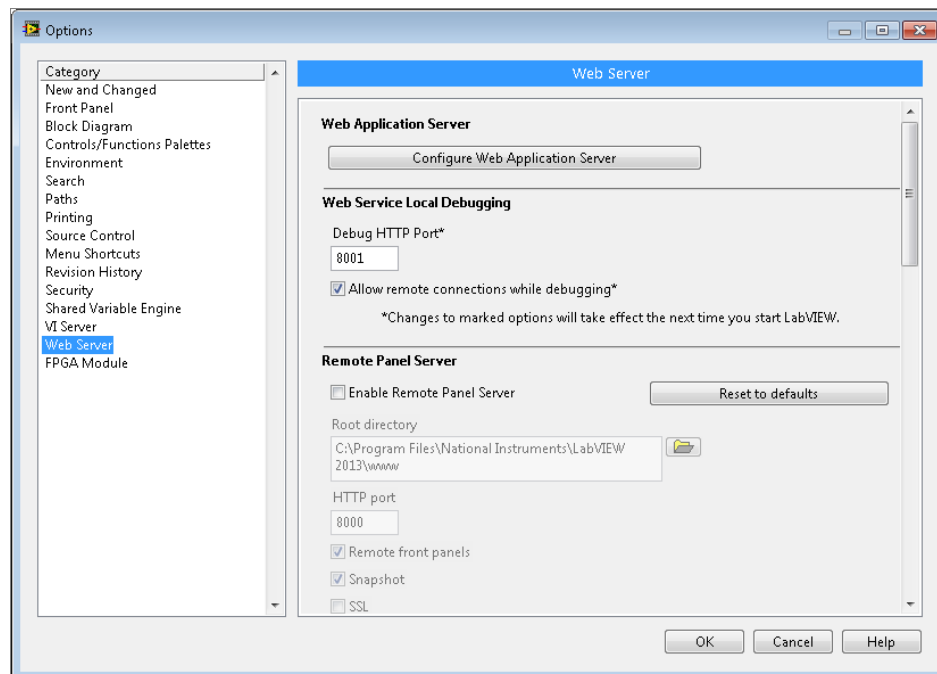
Our goal in this ELP project was to create a “cross-platform app which displays accelerometer data that can be analyzed using LabVIEW.” We had two components to this project. Joel Maupin was in charge of writing the code to create and install the Cross-Platform App on any iOS, Android, Windows device. His goal was to “POST” data to a given IP address or Computer Port. He completed his code given a template from PhoneGapp. Vik Parthiban was in charge of receiving the accelerometer data from the smart phone app, and analyze it using LabVIEW HTTP service request.

Component 2:

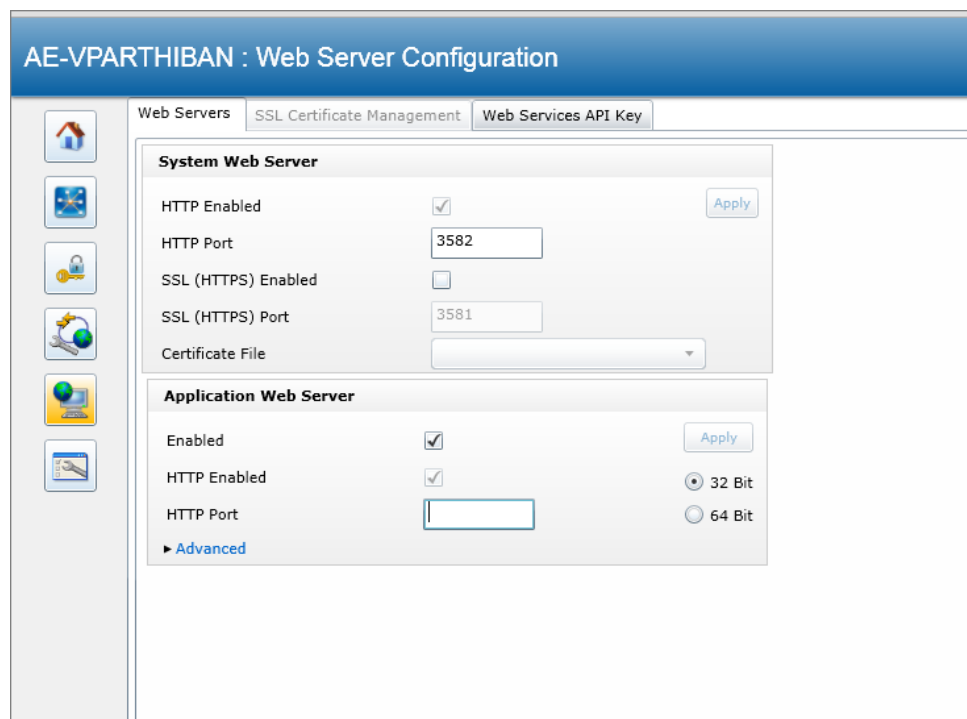
Open **Math Web Service.lvproj** in LabVIEW. Go to **Tools->Options..**



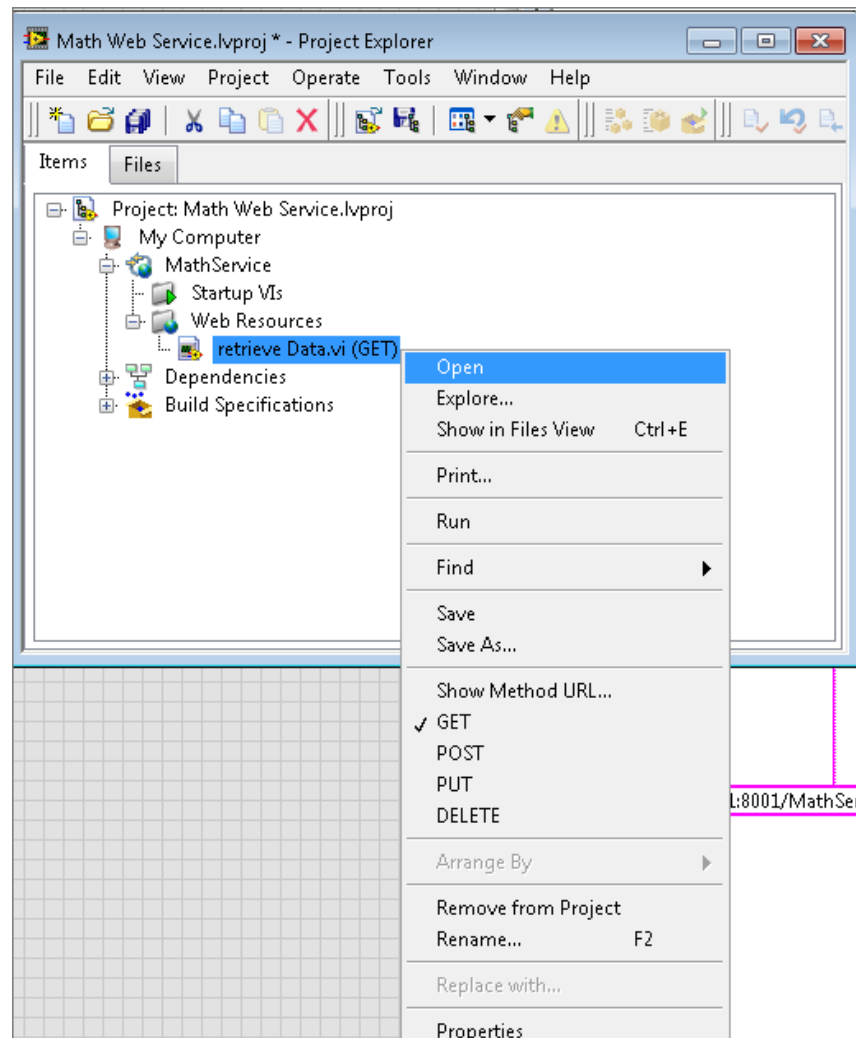
Click on **Web Server** -> **Configure Web Application Server**



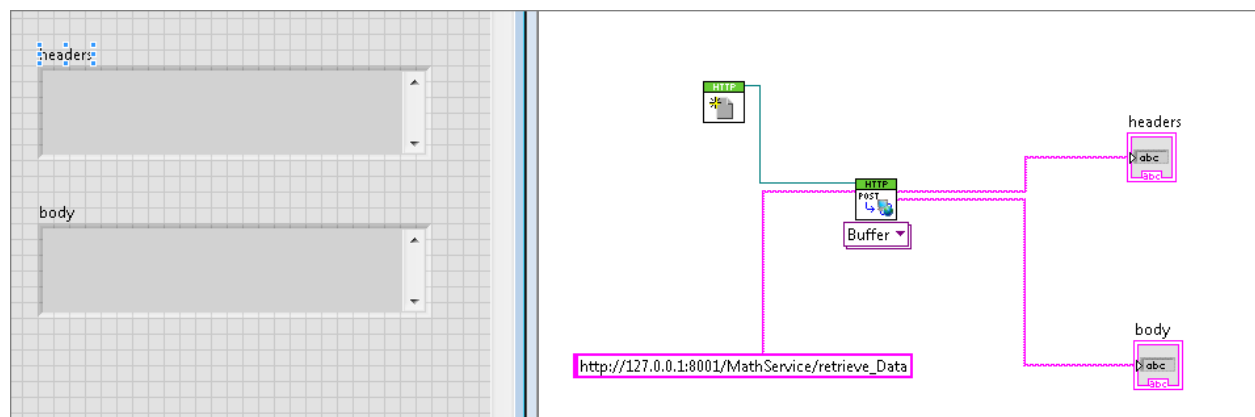
Here you will see configurations for the Web Application Server. In this window, you can configure a **HTTP port** to receive the “POST” data from. Make sure **Application Web Server** is enabled.



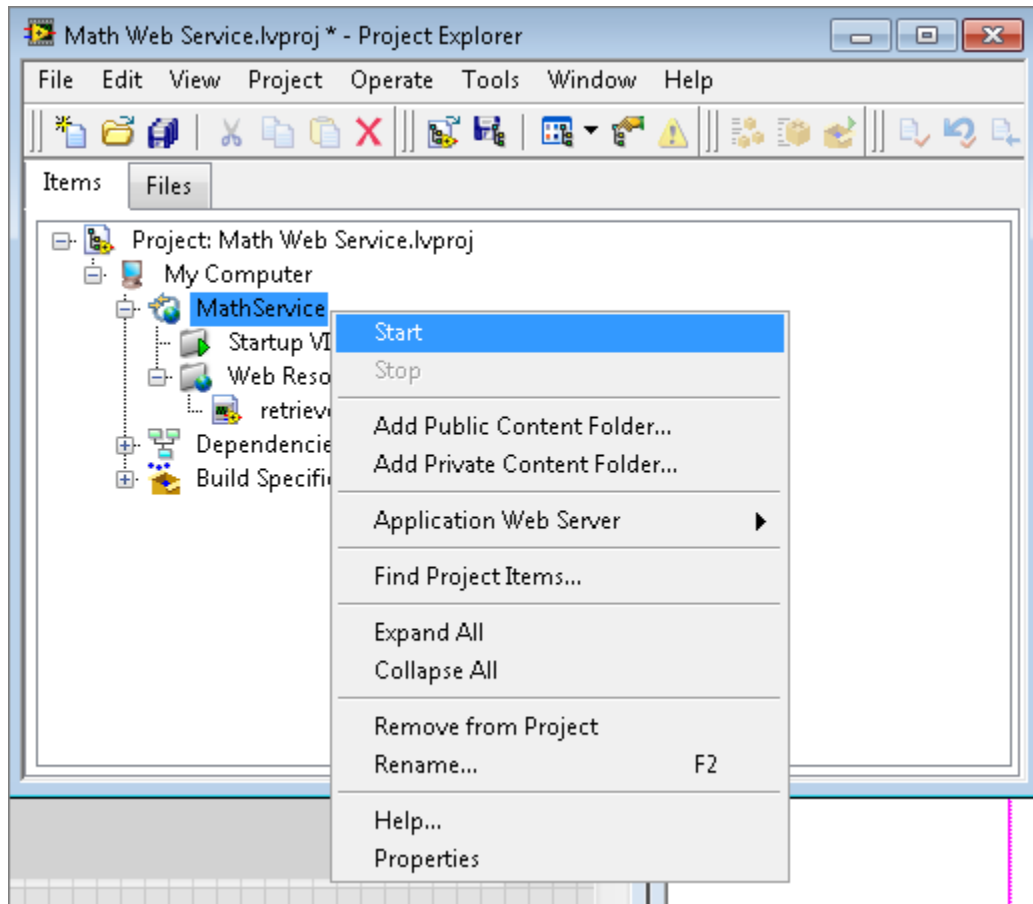
Exit the Browser, and Click **Ok** in the Options Dialog Box. Go back to the **Math Web Service.lvproj** window, **Right Click** retrieve Data.vi (GET) and **change to POST**.



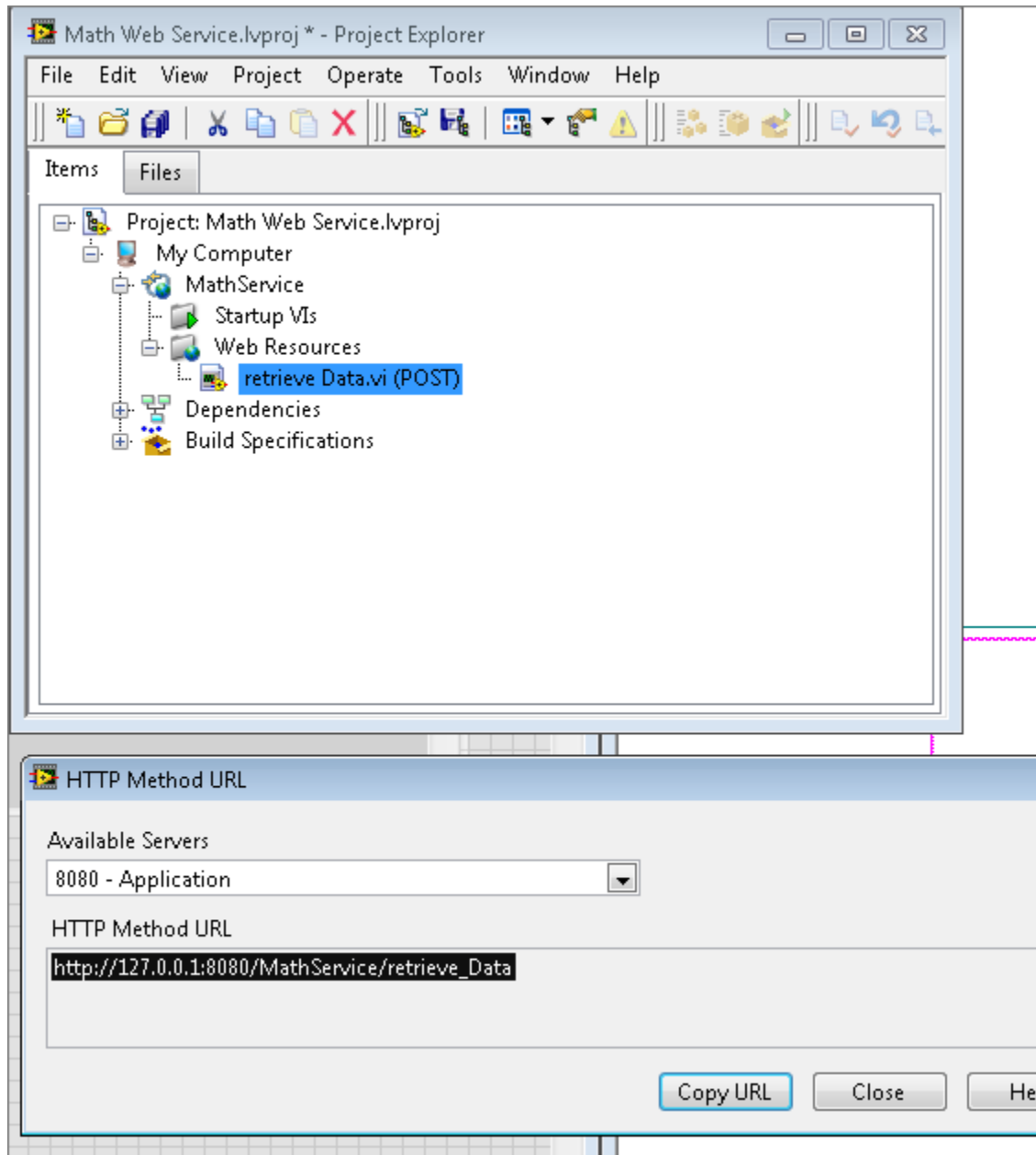
Open the VI to see how LabVIEW processes the HTTP Request.



Go back to the **Math Web Service.lvproj** window. **Right Click** MathService, and Click **Start**.



Right Click “retrieveData.vi (POST)” and Copy Method URL.



Paste the URL in the window, and you will see the Accelerometer Values online.

URL: /MathService/retrieve_Data

Output Terminals

Terminal Name	Terminal Value
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