
Testing

EMBEDDING ELECTRON-JS INSIDE QT APPLICATION

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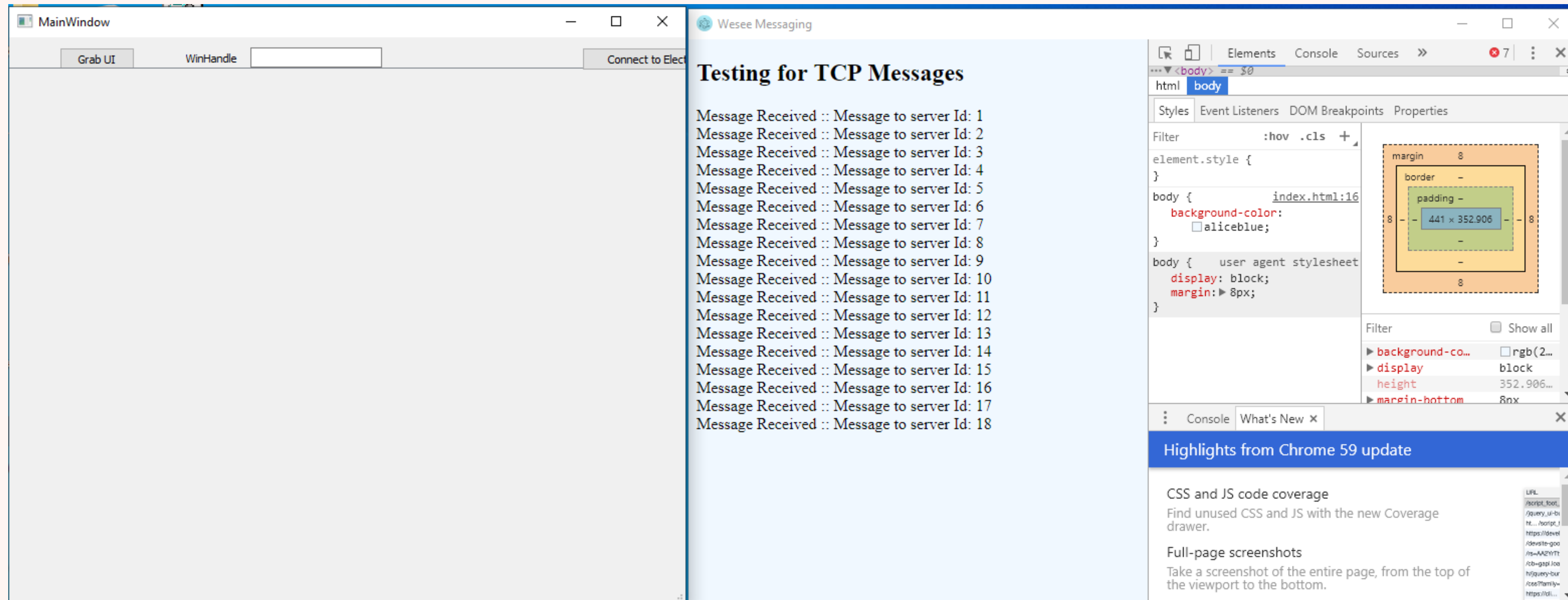
REASON FOR EXPERIMENT

- **Since most of the application/module Interact with each other via Socket Connection.**
 - **Client in Electron as individual unit of application utilises ports like 27017, 6379 to communicate to MongoDB & Redis.**
 - **Will it be able to communicate with these modules/services after it gets embedded inside QT Application?**
 - **Will Any TCP Client Outside the QT Application I.e from the Host Machine will be able to connect to the TCP server hosted inside the Electron Application?**
 - **If Electron Application & Client outside the QT Application can Communicate with each other over TCP connection, then we can assume that Electron will work inside QT embedded as it works like an Individual Application.**
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APPROACH FOLLOWED

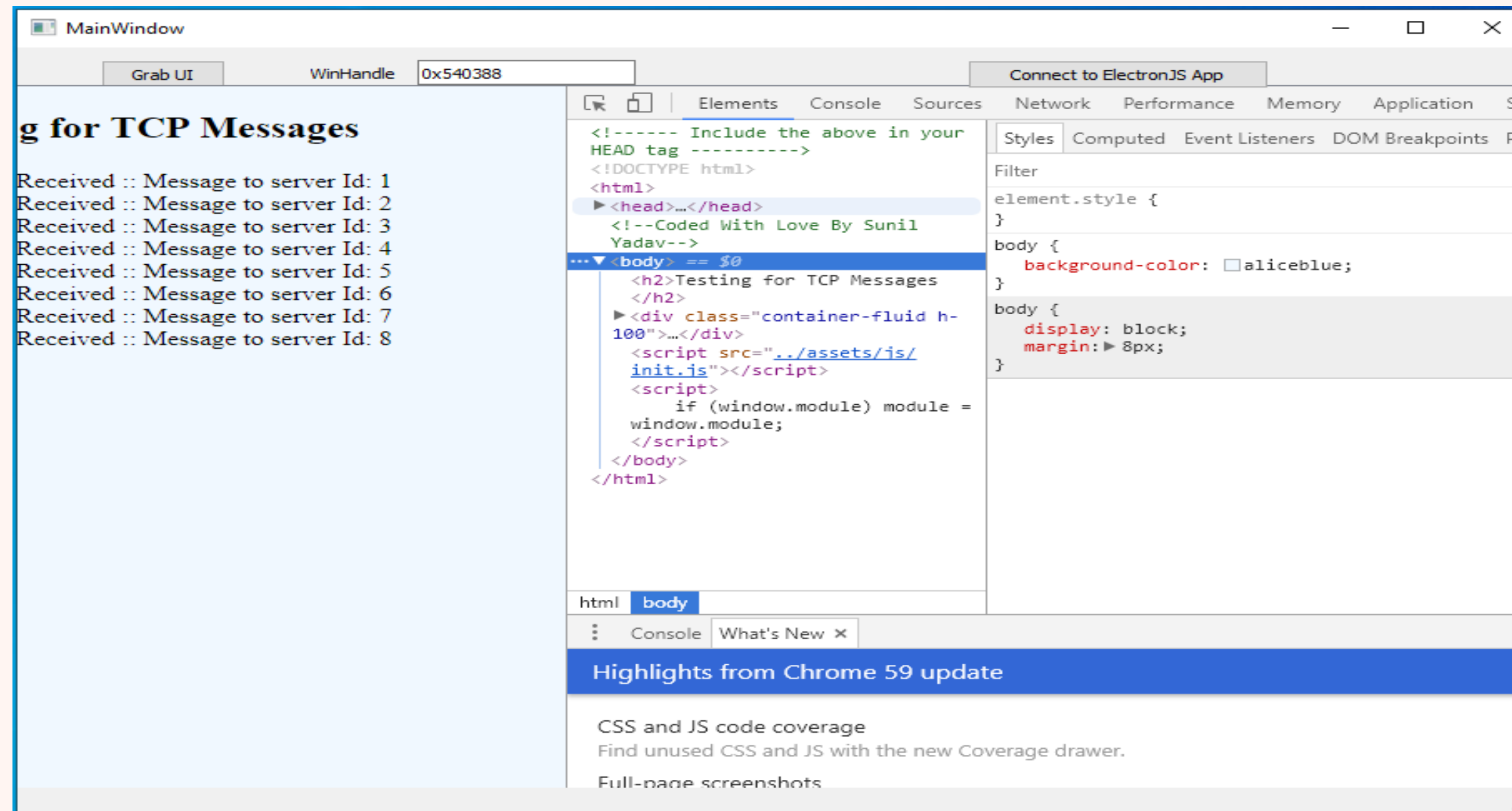
- **Creating an Electron Sample Project, that Opens an TCP Server at Port 1337**
 - **Creating an TCP_Client Module that Sends data to the Port 1337 (TCP)**
 - **Creating an QT Application that Will embed an Electron Application Inside.**
 - **Running QT Application with Electron Init as Embedded**
 - **Running an TCP Client at Host Machine.**
 - **Checking If Server Receives the Data From Client Side.**
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ELECTION APPLICATION INDIVIDUAL



When Qt and ElectronJS application running independently, and TCP client is running in Background

ELECTRON IN QT EMBEDDED



ElectronJS application is Embedded in Qt app, with TCP client running as Daemon.

CONCLUSION

- **Electron Js Application Communicates Over TCP, when Launched as an Individual Application**
 - **Electron Js Application Communicates Over TCP, when Embedded Inside an QT Application.**
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