

Initialization

npm init

Entry point: main.js

Description

Author

npm install --save-dev electron

Replace in package.json

```
{  
  "scripts": {  
    "start": "electron ."  
  }  
}
```

npm start

Create main.js

Window with JS

CREATE index.html

//INDEX.HTML

<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<!-- https://developer.mozilla.org/en-US/docs/Web/HTTP/CSP -->

<meta http-equiv="Content-Security-Policy" content="default-src 'self'; script-src 'self'">

<title>Hello World!</title>

</head>

<body>

<h1>Hello World!</h1>

We are using Node.js ,

Chromium ,

and Electron .

</body>

</html>

Main.js

```
const { app, BrowserWindow } = require('electron')

const createWindow = () => {
  const win = new BrowserWindow({
    width: 800,
    height: 600
  })

  win.loadFile('index.html')
}

app.whenReady().then(() => {
  createWindow()
})

app.on('window-all-closed', () => {
  if (process.platform !== 'darwin') app.quit()
})

app.whenReady().then(() => {
  createWindow()

  app.on('activate', () => {
    if (BrowserWindow.getAllWindows().length === 0) createWindow()
  })
})
```

CREATE preload.js

```
window.addEventListener('DOMContentLoaded', () => {
  const replaceText = (selector, text) => {
    const element = document.getElementById(selector)
    if (element) element.innerText = text
  }

  for (const dependency of ['chrome', 'node', 'electron']) {
```

```

    replaceText(`${dependency}-version`, process.versions[dependency])
  }
})

```

main.js

```

const path = require('path') //ADD TO TOP

// modify your existing createWindow() function
const createWindow = () => {
  const win = new BrowserWindow({
    width: 800,
    height: 600,
    webPreferences: {
      preload: path.join(__dirname, 'preload.js')
    }
  })

  win.loadFile('index.html')
}

```

Switching Windows

CREATE about.html

```

<!DOCTYPE html>
<html>
  <head>
    <meta charset="UTF-8" />
    <link
      rel="stylesheet"

href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/css/bootstrap.min.css"

integrity="sha384-rbsA2VBKQhggwzxH7pPCaAqO46MgnOM80zW1RWuH61DGLwZJE
dK2Kadq2F9CUG65"

      crossorigin="anonymous"
    />

```

```
        <title>About</title>
    </head>
    <body>
        <h1>About</h1>
        <p>This app is super cool!</p>
        <button class="btn btn-primary" onclick="switchToIndex()">
            Switch to Index Page
        </button>
        <script src="script.js"></script>
    </body>
</html>
```

Index.html (at bottom above body closing tag)

```
<button onclick="switchToAbout()">Switch to About Page</button>
<script src="script.js"></script>
```

CREATE script.js

```
const { ipcRenderer } = require("electron");

function switchToAbout() {
    ipcRenderer.send("switch-to-about");
}

function switchToIndex() {
    ipcRenderer.send("switch-to-index");
}
```

main.js (replace)

```
const { app, BrowserWindow, ipcMain } = require("electron");
const path = require("path");

// Step 1 - hello world
function createWindow() {
    const mainWindow = new BrowserWindow({
        width: 800,
        height: 600,
        webPreferences: {
```

```

        preload: path.join(__dirname, "preload.js"),
        nodeIntegration: true,
        contextIsolation: false,
    },
});

mainWindow.loadFile("index.html");
}

// Step 1 - hello world
app.whenReady().then(() => {
    createWindow();

    app.on("activate", function () {
        if (BrowserWindow.getAllWindows().length === 0) createWindow();
    });
});

// Step 1 - hello world
app.on("window-all-closed", function () {
    if (process.platform !== "darwin") app.quit();
});

//
// Step 2 - Switching between windows
//
ipcMain.on("switch-to-about", (event) => {
    const focusedWindow = BrowserWindow.getFocusedWindow();
    focusedWindow.loadFile("about.html");
});
ipcMain.on("switch-to-index", (event) => {
    const focusedWindow = BrowserWindow.getFocusedWindow();
    focusedWindow.loadFile("index.html");
});

```

PACKAGING AND DISTRIBUTION

npm install --save-dev @electron-forge/cli

npx electron-forge import

npm run make