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Description of The Development Environment

Add Typescript Elements to Web Page

1. The version of Node.js: v16.16.0
2. The browser used to test: Chrome, 106.0.5249.119(arm64)
3. Operating system: macOS Monterey, version 12.6 (21G115), Darwin(21.6.0)

4. A short description of how to test the code:

- ✧ Open Visual Studio and open **m5_typescript_as** file
- ✧ Open Terminal, command line navigate to the current directory
- ✧ Type in "**node app.js**" to run the app.js file
- ✧ Open Chrome browser, **type in url: localhost:3000**
- ✧ Then you can see the Webpage
- ✧ **Click "Boot a Trip" in the Navigator Bar**
- ✧ Open the **developer console** in Google Chrome
- ✧ Type in "**personal information**" in the "Make a reservation here Form"
- ✧ Click "**Submit**" button, and you will see "personal information" consoled, an alert to showcase new guest's name
- ✧ Click "**See our tour guide**", and you will see an alert to showcase the tour guide's name

5. A list of typescript features I used:

- ✧ Classes and Properties: Person
- ✧ Module: Interface IGuide_Person, Class GuidePerson and its properties and methods (greet())
- ✧ Import module from module.tx to script.tx
- ✧ Arrow Function: Listen to button "click" event
- ✧ document.getEventById("")
- ✧ Types used: string, number, Array

Use Webpack and Apply It to Create a Basic Project

A short description of how to test the code:

- ✧ Open Visual Studio and open **webpack_basic_project** file
- ✧ Open Terminal, command line navigate to the current directory
- ✧ **Open ./dist/index.html file with Live Server** (Chrome), then we will see an alert to show the sum of two numbers respectively from module1 and module2.
- ✧ Open the **developer console** in Google Chrome, we will see the order in which the functions in the two modules are called.