

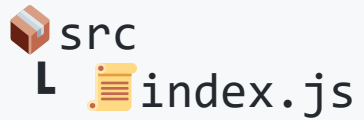
# **Web Application Development for Industrial Engineers**

**การพัฒนาแอปพลิเคชันสำหรับวิศวกรอุตสาหกรรม**

# Module bundler



```
mkdir webpack-demo  
cd webpack-demo  
npm init -y  
npm install webpack webpack-cli --save-dev
```

- Create `src` folder and `src/index.js` file



```
src
├── index.js
```

- Create `dist` folder and `dist/index.html` file

 `dist`  
 `index.html`

- Setup a default template.
- Add to the header.

```
<script src="main.js" defer></script>
```

- This is the final `HTML` content.

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <script src="main.js" defer></script>
    <title>Document</title>
  </head>
  <body></body>
</html>
```

- Create `./webpack.config.js`

```
const path = require('path');

module.exports = {
  entry: './src/index.js',
  output: {
    filename: 'main.js',
    path: path.resolve(__dirname, 'dist'),
  },
  resolve: {
    modules: [path.resolve(__dirname, 'src')],
  },
};
```

- create `./jsconfig.json`

```
{
  "compilerOptions": {
    "baseUrl": "./src"
  },
  "include": ["src"],
  "exclude": ["node_modules"]
}
```



```
const pEle = document.createElement('p');  
pEle.textContent = 'This is a text!';  
document.body.appendChild(pEle);
```

- Run command

```
npx webpack --config webpack.config.js
```

- or just

```
npx webpack
```

# Import

- Create another file `src\lib\utilities.js`



```
src
├── lib
│   └── utilities.js
└── index.js
```

- `utilities.js`

```
const data = 10;  
export { data };
```

- `index.js`

```
import { data } from 'lib/utilities';  
  
// ... old stuff  
  
console.log({ data });
```