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# Web Applications Development

Step 1: TypeScript + Webpack

# Setting up basic things

NodeJS

Application Package

TypeScript

Webpack

Configuration

Coding

# Webpack dev server.

```
npm install webpack-dev-server@2.2.0-rc.0 --save
```

Update webpack.config to include “.js”

# 3<sup>rd</sup> party library integration

```
npm install jquery @types/jquery --save
```

Simple case of using the library

# Custom modules

- Implement Calculator module
- Use it in application

# Bundled application result

- Result is inside “dist” folder
- All modules are bundled to app.js

# Debugging

- Enable source maps in WebPack
- Use Dev Tools in your browser
- Attach to Chrome from your IDE through remote debugging protocol

# Styling

- CSS
- `npm install style-loader css-loader -save`
- Update “webpack.config”



# Questions

-What is next?

- TypeScript in depth (interfaces, generics)
- Unit tests (mocha, chai, karma) + Code coverage
- Promises, RxJS, async/await
- ReactJS
- Production bundling
- CSS modules
- NodeJS backend application server