

SuperMap iClient for Leaflet

Modular Development

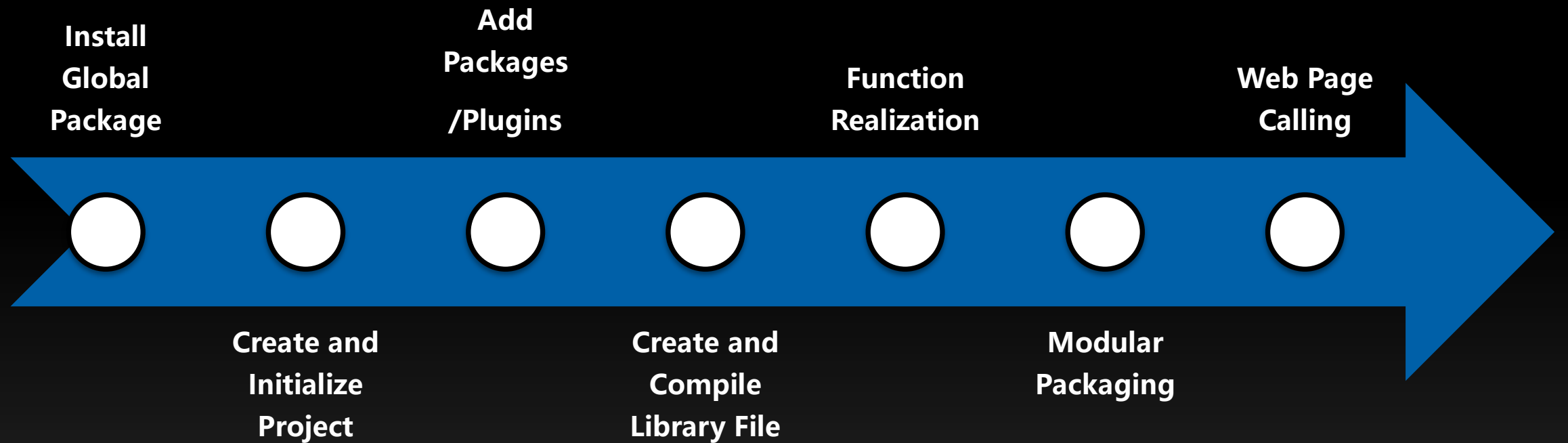
SuperMap Software Co., Ltd.

Course Objectives

- Perform modular development to achieve the following result



Steps



Install Global Package

- Start CMD (run as administrator)
 - Input the following command in cmd

```
npm install babel -g  
npm install webpack -g
```

Create and Initialize Project

- Create a leafletMap folder
- Enter the leafletMap path in the console
- Initialize using npm init

```
npm init //Initialize
```

- Verification: A package.json file will be generated in the root directory

Add Necessary Packages/Plugins

- Enter the following command at the console to load the required modules in the project

```
npm install webpack --save-dev
```

```
npm install babel-core
```

```
npm install babel-loader
```

```
npm install babel-preset-es2015
```

```
npm install css-loader
```

```
npm install url-loader
```

```
npm install @supermap/iclient-leaflet@9.0.1
```

Create and Compile Library

- Create webpack.config.js and add the following code

```
var webpack = require('webpack');
var path = require('path');
module.exports = {
  context: __dirname,
  entry: './main.js',
  resolve: {
    extensions: ['.js', '.json', '.css']
  },
  module: {
  },
  output: {
    path: __dirname,
    filename: "bundle.js"
  }
}
```

```
module: {
  rules: [{
    // 加载图片，图片小于80k采用base64编码
    test: /\.?(png|jpg|jpeg|gif|woff|woff2|svg|eot|ttf)$/,
    use: [{
      loader: 'url-loader',
      options: {
        limit: 80000
      }
    }]
  }, {
    // 加载css文件
    test: /\.css$/,
    use: ['css-loader']
  }, {
    // 使用babel-loader将ES6语法转换为ES5
    test: /\.js$/,
    include: [
      path.resolve(__dirname, "node_modules/@supermap/iclient-common"),
      path.resolve(__dirname, "node_modules/@supermap/iclient-leaflet"),
      // 由于iClient对Elasticsearch的API进行了封装，并且Elasticsearch也使用了ES6的语法，因此这里也要对
      // Elasticsearch的API进行标准转换
      path.resolve(__dirname, "node_modules/elasticsearch"),
    ],
    loader: 'babel-loader',
    options: {
      presets: ['es2015']
    }
  }
]}
}
```

Modular Function Implementation

- Create main.js and compile the function for loading the map

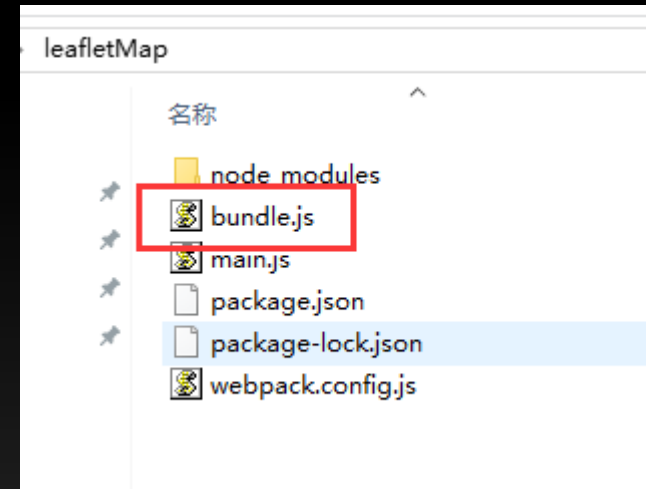
```
import L from 'leaflet';
import '@supermap/iclient-leaflet';

var url="http://localhost:8090/iserver/services/map-China/rest/maps/China";
var map=L.map('map',{crs: L.CRS.EPSG3857,
  center: [0, 0],
  maxZoom: 18,
  zoom: 1 });
L.supermap.tiledMapLayer(url).addTo(map);
```


Modular Packaging webpack

- Enter the following command in the console to package the module and generate bundle.js
 - Run webpack directly in the current folder path

```
E:\leafletMap>webpack
Hash: 03809648e5ac4ca6e917
Version: webpack 3.10.0
Time: 18208ms
   Asset      Size  Chunks             Chunk Names
bundle.js  10.6 MB          0  [emitted]  [big]  main
   [40] (webpack)/buildin/global.js 509 bytes {0} [built]
   [212] (webpack)/buildin/module.js 517 bytes {0} [built]
   [409] (webpack)/buildin/amd-options.js 82 bytes {0} [built]
   [610] ./main.js 281 bytes {0} [built]
+ 1313 hidden modules
```



Page Calling

- Create index.html

```
<html >
  <head>
    <link href="http://cdn.bootcss.com/leaflet/1.2.0/leaflet.css" rel="stylesheet">
    <title>SuperMap iClient for Leaflet</title>
  </head>
  <body >
    <div id="map" style="width: 100%;height: 100%"></div>
    <script src="./bundle.js"></script>
  </body>
</html>
```

Map Browsing

- Access [index.html](#)



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Thank you

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