This example illustrates how common modules from deep ancestors of an entry point can be split into a separate common chunk

- pageA and pageB are dynamically required
- pageC and pageA both require the reusableComponent
- pageB dynamically requires PageC

You can see that webpack outputs five files/chunks:

- output.js is the entry chunk and contains
 - the module system
 - o chunk loading logic
 - the entry point example.js
- 0.output.js is an additional chunk
 - module reusableComponent
- 1.output.js is an additional chunk
 - module pageB
- 2.output.js is an additional chunk
 - module pageA
- 3.output.js is an additional chunk
 - module pageC

example.js

```
var main = function() {
   console.log("Main class");
   require.ensure([], () => {
      const page = require("./pageA");
      page();
   });
   require.ensure([], () => {
      const page = require("./pageB");
      page();
   });
   main();
```

pageA.js

```
var reusableComponent = require("./reusableComponent");

module.exports = function() {
   console.log("Page A");
   reusableComponent();
};
```

pageB.js

```
module.exports = function() {
    console.log("Page B");
    require.ensure([], ()=>{
        const page = require("./pageC");
        page();
    });
};
```

pageC.js

```
var reusableComponent = require("./reusableComponent");

module.exports = function() {
   console.log("Page C");
   reusableComponent();
};
```

reusableComponent.js

```
module.exports = function() {
    console.log("reusable Component");
};
```

webpack.config.js

```
"use strict";
const path = require("path");

module.exports = {
    // mode: "development || "production",
    entry: {
        main: ["./example.js"]
    },
    optimization: {
        splitChunks: {
            minSize: 0 // This example is too small, in practice you can use the defaults
        },
        chunkIds: "deterministic" // To keep filename consistent between different
```

```
modes (for example building only)
},
output: {
    path: path.resolve(__dirname, "dist"),
    filename: "output.js"
}
};
```

dist/output.js

 \blacktriangleright /* webpack runtime code */

```
var __webpack_exports__ = {};
/*!******************
 !*** ./example.js ***!
 \*******/
/*! unknown exports (runtime-defined) */
/*! runtime requirements: __webpack_require__, __webpack_require__.e,
__webpack_require__.* */
var main = function() {
   console.log("Main class");
   Promise.all(/*! require.ensure */[__webpack_require__.e(421),
__webpack_require__.e(366)]).then((() => {
       const page = __webpack_require__(/*! ./pageA */ 1);
       page();
   }).bind(null, __webpack_require__)).catch(_webpack_require__.oe);
   \_webpack_require\_.e(/*! require.ensure */ 588).then((() => {
       const page = __webpack_require__(/*! ./pageB */ 3);
       page();
   }).bind(null, __webpack_require__)).catch(__webpack_require__.oe);
};
main();
/*****/ }) ()
```

dist/366.output.js

```
(self["webpackChunk"] = self["webpackChunk"] || []).push([[366],[
/* 0 */,
/* 1 */
/*!************!*\
```

```
!*** ./pageA.js ***!
    \*****************
/*! unknown exports (runtime-defined) */
/*! runtime requirements: module, __webpack_require__ */
/*! CommonJS bailout: module.exports is used directly at 3:0-14 */
/***/ ((module, __unused_webpack_exports, __webpack_require__) => {

var reusableComponent = __webpack_require__(/*! ./reusableComponent */ 2);

module.exports = function() {
    console.log("Page A");
    reusableComponent();
};

/***/ })
]]);
```

dist/588.output.js

```
(self["webpackChunk"] = self["webpackChunk"] || []).push([[588],{
/***/ 3:
/*!***************
 !*** ./pageB.js ***!
 \*********
/*! unknown exports (runtime-defined) */
/*! runtime requirements: module, __webpack_require__, __webpack_require__.e,
webpack require .* */
/***/ ((module, __unused_webpack_exports, __webpack_require__) => {
module.exports = function() {
  console.log("Page B");
  Promise.all(/*! require.ensure */[__webpack_require__.e(421),
__webpack_require__.e(145)]).then((()=>{
      const page = __webpack_require__(/*! ./pageC */ 4);
   }).bind(null, __webpack_require__)).catch(__webpack_require__.oe);
};
/***/ })
}]);
```

dist/145.output.js

```
(self["webpackChunk"] = self["webpackChunk"] || []).push([[145],{
/***/ 4:
/*!***************
 !*** ./pageC.js ***!
 \********
/*! unknown exports (runtime-defined) */
/*! runtime requirements: module, __webpack_require__ */
/*! CommonJS bailout: module.exports is used directly at 3:0-14 ^{*}/
/***/ ((module, unused webpack exports, webpack require ) => {
var reusableComponent = __webpack_require__(/*! ./reusableComponent */ 2);
module.exports = function() {
  console.log("Page C");
   reusableComponent();
};
/***/ })
}]);
```

dist/421.output.js

Info

Unoptimized

```
asset output.js 9.11 KiB [emitted] (name: main)
asset 588.output.js 736 bytes [emitted]
asset 366.output.js 558 bytes [emitted]
asset 145.output.js 552 bytes [emitted]
asset 421.output.js 434 bytes [emitted]
chunk (runtime: main) 145.output.js 136 bytes [rendered]
 > ./pageB.js 3:1-6:3
  ./pageC.js 136 bytes [built] [code generated]
    [used exports unknown]
    cjs require ./pageC ./pageB.js 4:15-33
    cjs self exports reference ./pageC.js 3:0-14
chunk (runtime: main) output.js (main) 220 bytes (javascript) 4.98 KiB (runtime)
[entry] [rendered]
 > ./example.js main
  runtime modules 4.98 KiB 6 modules
  ./example.js 220 bytes [built] [code generated]
    [used exports unknown]
    entry ./example.js main
chunk (runtime: main) 366.output.js 136 bytes [rendered]
  > ./example.js 3:1-6:3
  ./pageA.js 136 bytes [built] [code generated]
   [used exports unknown]
   cjs require ./pageA ./example.js 4:15-33
    cjs self exports reference ./pageA.js 3:0-14
chunk (runtime: main) 421.output.js 69 bytes [rendered] split chunk (cache group:
default)
  > ./example.js 3:1-6:3
  > ./pageB.js 3:1-6:3
  ./reusableComponent.js 69 bytes [built] [code generated]
    [used exports unknown]
    cjs require ./reusableComponent ./pageA.js 1:24-54
    cjs require ./reusableComponent ./pageC.js 1:24-54
    cjs self exports reference ./reusableComponent.js 1:0-14
chunk (runtime: main) 588.output.js 133 bytes [rendered]
  > ./example.js 7:1-10:3
  ./pageB.js 133 bytes [built] [code generated]
    [used exports unknown]
    cjs require ./pageB ./example.js 8:15-33
    cjs self exports reference ./pageB.js 1:0-14
webpack 5.51.1 compiled successfully
```

Production mode

```
asset output.js 1.8 KiB [emitted] [minimized] (name: main)
asset 588.output.js 198 bytes [emitted] [minimized]
asset 145.output.js 134 bytes [emitted] [minimized]
asset 366.output.js 134 bytes [emitted] [minimized]
asset 421.output.js 123 bytes [emitted] [minimized]
```

```
chunk (runtime: main) 145.output.js 136 bytes [rendered]
 > ./pageB.js 3:1-6:3
  ./pageC.js 136 bytes [built] [code generated]
    [used exports unknown]
   cjs require ./pageC ./pageB.js 4:15-33
   cjs self exports reference ./pageC.js 3:0-14
chunk (runtime: main) output.js (main) 220 bytes (javascript) 4.98 KiB (runtime)
[entry] [rendered]
 > ./example.js main
  runtime modules 4.98 KiB 6 modules
  ./example.js 220 bytes [built] [code generated]
   [no exports used]
   entry ./example.js main
chunk (runtime: main) 366.output.js 136 bytes [rendered]
  > ./example.js 3:1-6:3
  ./pageA.js 136 bytes [built] [code generated]
    [used exports unknown]
   cjs require ./pageA ./example.js 4:15-33
   cjs self exports reference ./pageA.js 3:0-14
chunk (runtime: main) 421.output.js 69 bytes [rendered] split chunk (cache group:
default)
 > ./example.js 3:1-6:3
 > ./pageB.js 3:1-6:3
  ./reusableComponent.js 69 bytes [built] [code generated]
    [used exports unknown]
   cjs require ./reusableComponent ./pageA.js 1:24-54
    cjs require ./reusableComponent ./pageC.js 1:24-54
    cjs self exports reference ./reusableComponent.js 1:0-14
chunk (runtime: main) 588.output.js 133 bytes [rendered]
  > ./example.js 7:1-10:3
  ./pageB.js 133 bytes [built] [code generated]
    [used exports unknown]
   cjs require ./pageB ./example.js 8:15-33
   cjs self exports reference ./pageB.js 1:0-14
webpack 5.51.1 compiled successfully
```