

# #2

## Splitting

Applications



# Prerequisites

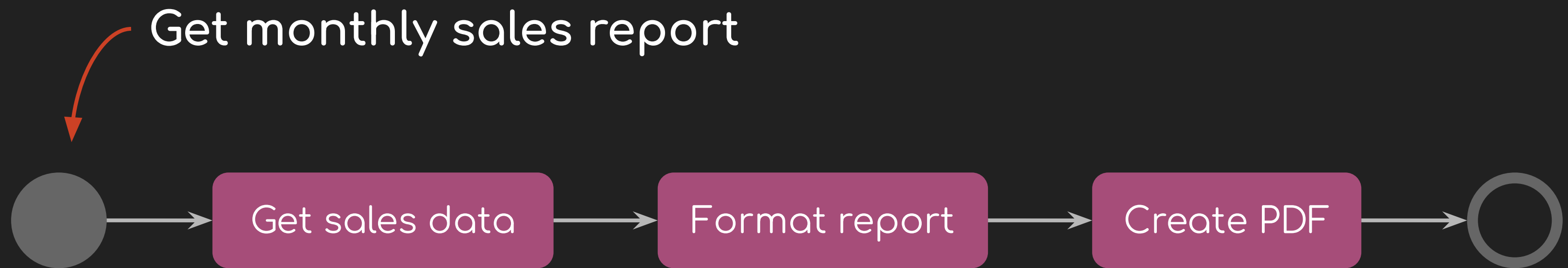


JavaScript  
runtime

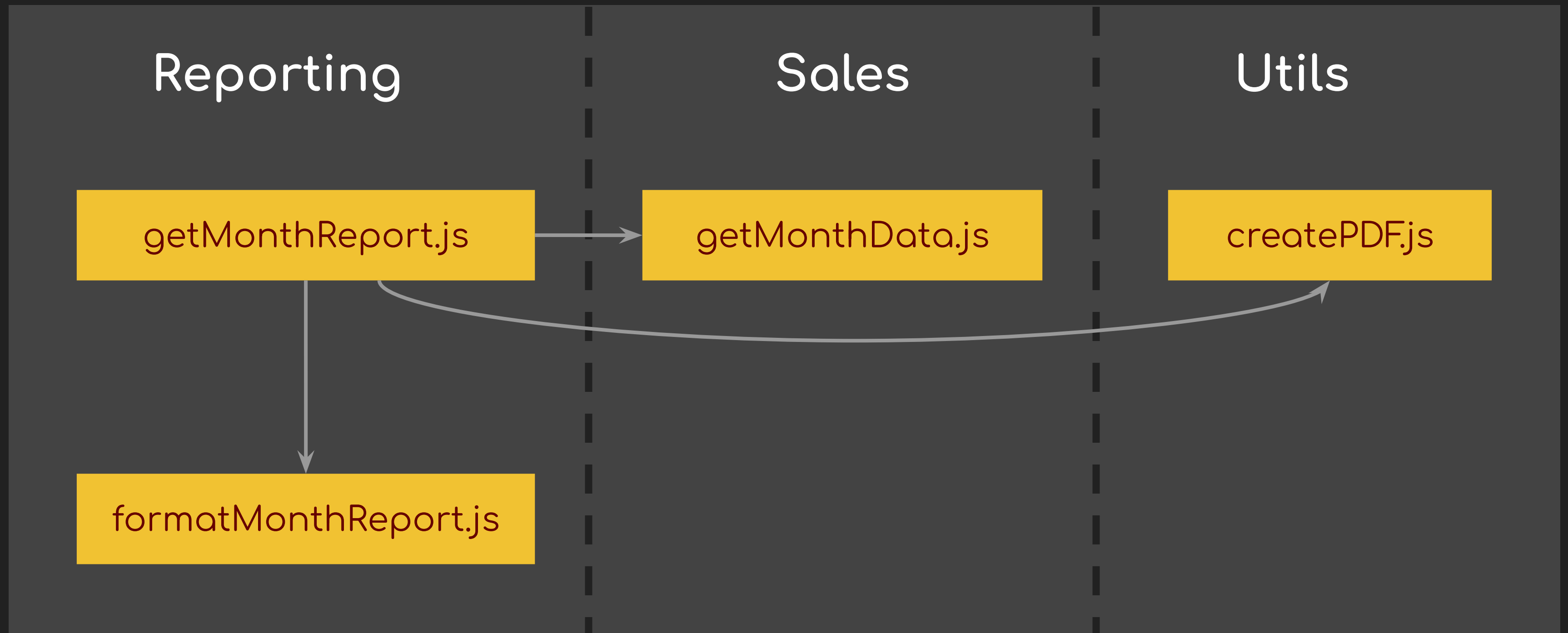


ECMAScript  
modules

# The application



# Application structure



# Process implementation

```
// reporting/getMonthReport.js

import createPDF from '../utils/createPDF.js';
import getMonthData from '../sales/getMonthData.js';
import formatMonthReport from './formatMonthReport.js';

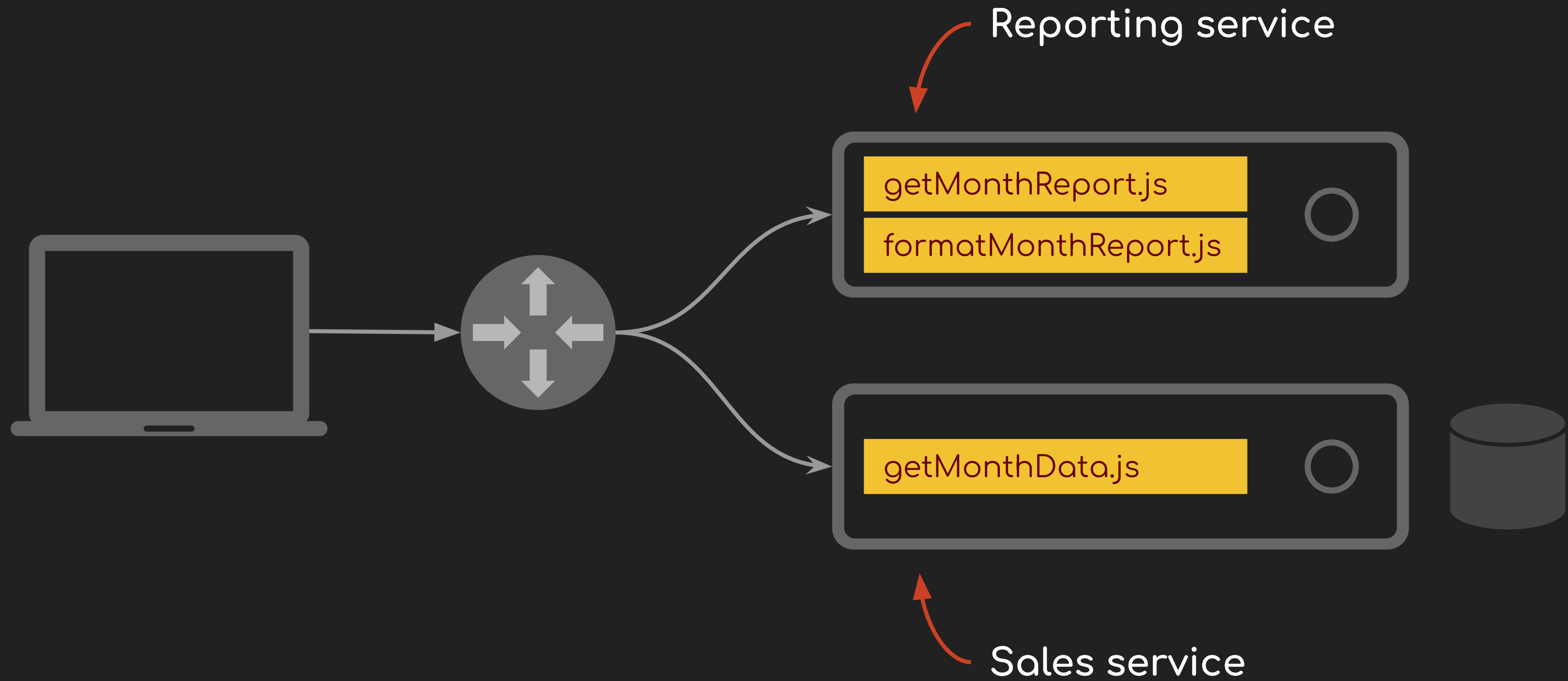
export default async function getMonthReport(year, month)
{
  const data = await getMonthData(year, month);
  const report = await formatMonthReport(data);

  return createPDF(report);
}
```



Local imports

# Distribution plan



# Deployment configuration

```
// reporting.json
{
  "./reporting/getMonthReport.js": {
    "default": {
      "access": "public"
    }
  },
  "./reporting/formatMonthReport.js": {
    "default": {
      "access": "private"
    }
  }
}
```

```
// sales.json
{
  "./sales/getMonthData.js": {
    "default": {
      "access": "protected"
    }
  }
}
```

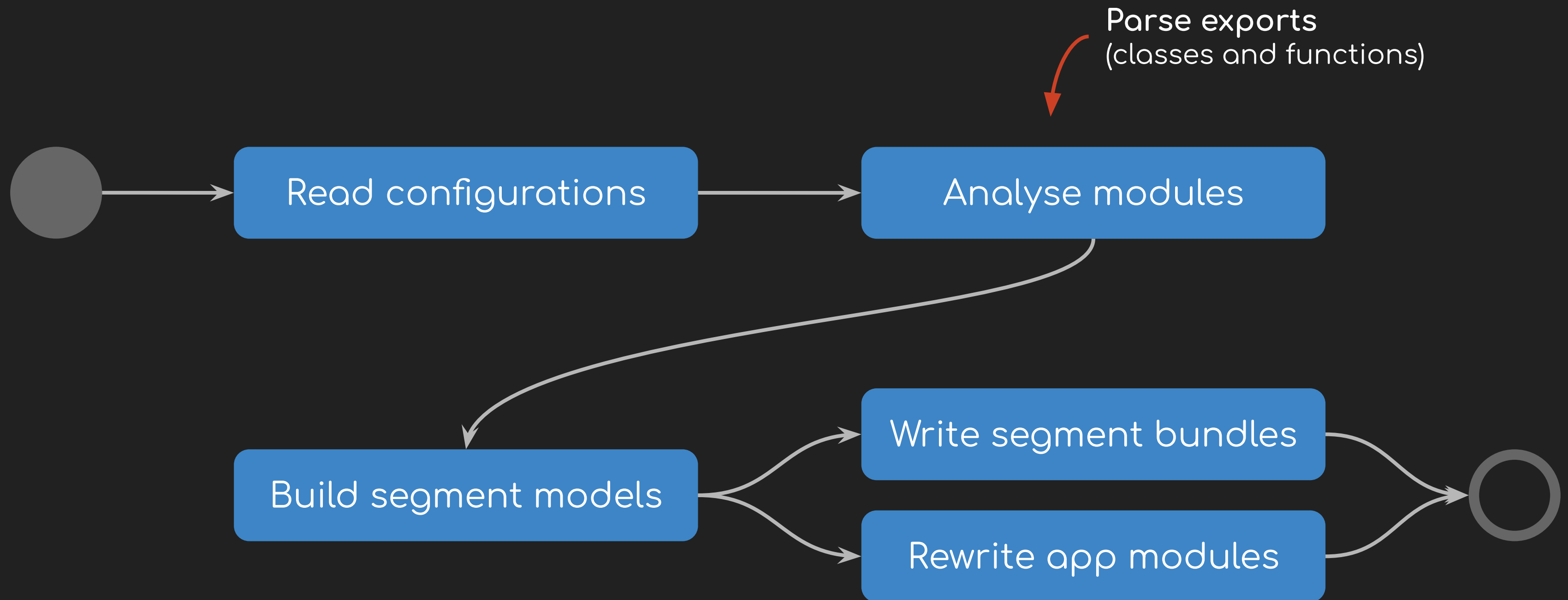
# \$jitar build

## OUTPUT

```
[INFO] Built reporting segment (2 modules, 2 procedures, 0 classes)  
[INFO] Built sales segment (1 modules, 1 procedure, 0 classes)
```




# Build process



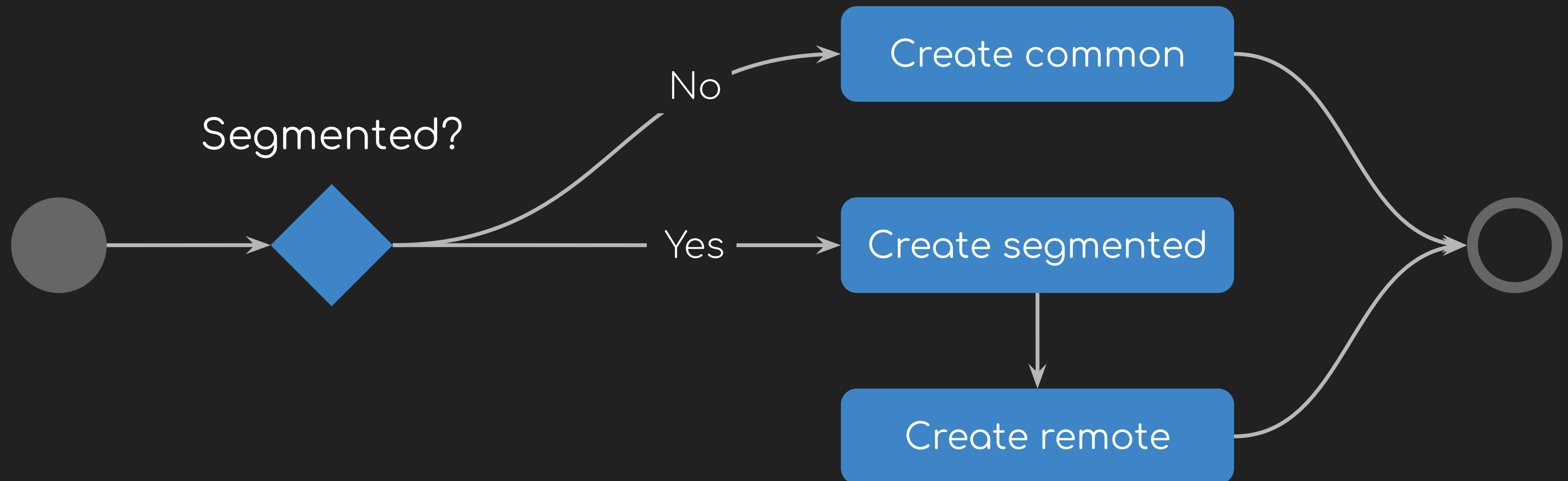
# Segment bundle

```
import {Segment, Procedure, Implementation, Version, NamedParameter} from "jitar";
import $1 from "../reporting/getMonthReport.reporting.js";
import $2 from "../reporting/formatMonthReport.reporting.js";

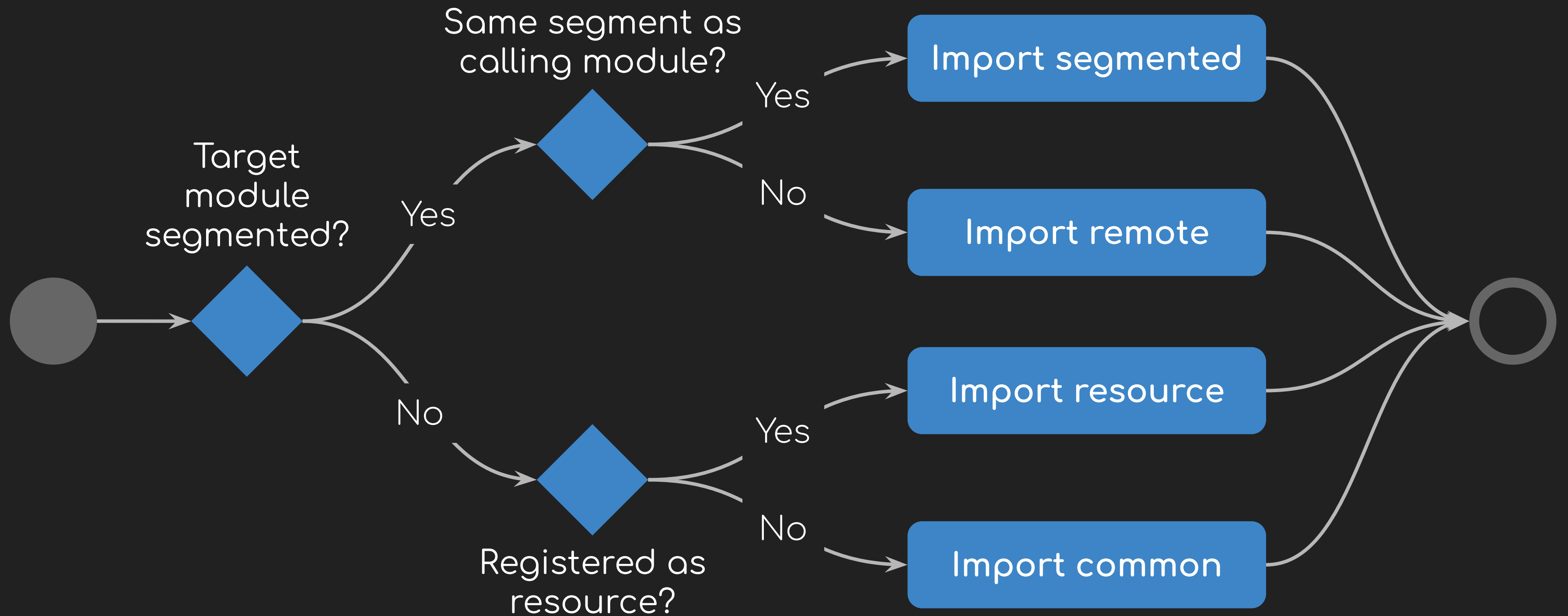
export default new Segment("reporting")
    .addProcedure(new Procedure("reporting/getMonthReport")
        .addImplementation(new Implementation(new Version(0, 0, 0), "public",
            [new NamedParameter("year", false), new NamedParameter("month", false)], $1))
    )
    .addProcedure(new Procedure("reporting/formatMonthReport")
        .addImplementation(new Implementation(new Version(0, 0, 0), "private",
            [new NamedParameter("data", false)], $2))
    )
```

 FQN

# App module rewriting



# Import rewriting



# Segmented module

```
// reporting/getMonthReport.reporting.js
```

```
import createPDF from '../utils/createPDF.js';
```

```
import getMonthData from "../sales/getMonthData.remote.js";
```

```
import formatMonthReport from "./formatMonthReport.reporting.js";
```

```
export default async function getMonthReport(year, month)
```

```
{
```

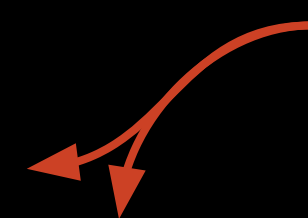
```
  const data = await getMonthData(year, month);
```

```
  const report = await formatMonthReport(data);
```

```
  return createPDF(report);
```

```
}
```

Replaced imports



# Remote module

```
// sales/getMonthData.remote.js

export default async function getMonthData(year, month)
{
  return __run('sales/getMonthData', '0.0.0', {'year':year, 'month':month}, this);
}
```

FQN



Version



Args



Context

