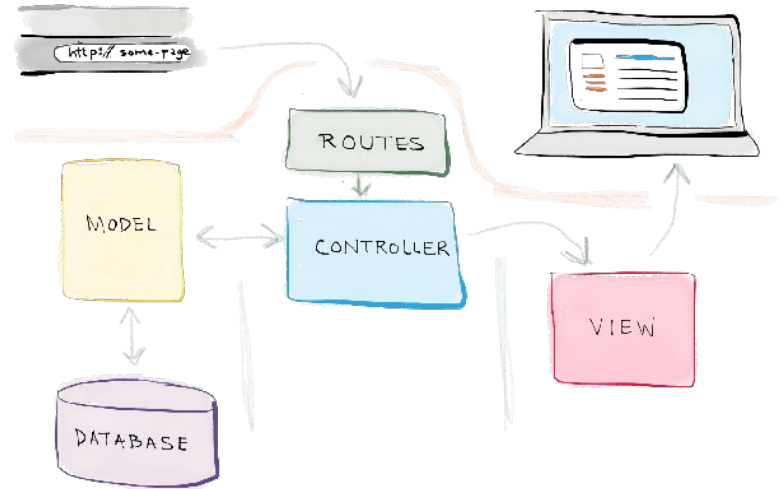
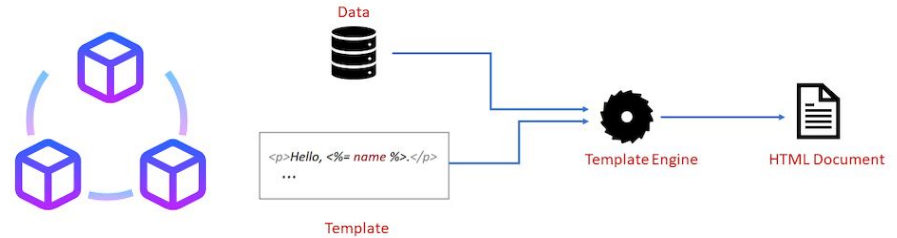


# Modules, Routes and HTML Template Rendering



*module  $\approx$  Package*

## What is Express?

Express is a back end web application framework for building RESTful APIs with Node.js. It is designed for building web applications and APIs.

```
npm install express
```



# Creating a server with Express

## Your first Express Script

```
const express = require('express');  
const app = express(); ]- method for initializing Server  
const port = 3000;  
→ Home Route  
app.get('/', (req, res) => {  
  res.send('Hello World!');  
});  
  
app.listen(port, () => {  
  console.log(`Example app listening on port ${port}`);  
});
```

# Routing with Express

## Basic routing with Express

```
app.get('/', (req, res) => {  
  res.send('Hello World!')  
});
```

```
app.post('/login', (req, res) => {  
  res.send('Login form')  
});
```

```
app.put('/modify', (req, res) => {  
  res.send('Update details')  
});
```

```
app.delete('/removeAccount', (req, res) => {  
  res.send('Delete Account')  
});
```

# Route Parameters → Additional Details

Route parameters are named URL segments that are used to capture the values specified at their position in the URL.

Route path: /users/:userId/books/:bookId  
Request URL: http://localhost:3000/users/17/books/1234  
req.params: { "userId": "17", "bookId": "1234" }  
  
app.get('/users/:userId/books/:bookId', (req, res) => {  
 res.send(req.params)  
});

Route path: /flights/:from-:to  
Request URL: http://localhost:3000/flights/BOM-NAG  
req.params: { "from": "BOM", "to": "NAG" }  
  
app.get('/flights/:from-:to', (req, res) => {  
 res.send(req.params);  
});



*/users/:userId*

# HTML Template Rendering

## The `sendFile()` function

```
app.get('/', (req,res) {  
  res.sendFile('index.html');  
});
```

# HTML Template Rendering

⇒ Static

## Putting everything together

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

app.get('/', (req, res) {
  res.sendFile(path.join(__dirname + '/index.html'));
});

app.get('/about', (req, res) {
  res.sendFile(path.join(__dirname + '/about.html'));
});

router.get('/contact', (req, res) {
  res.sendFile(path.join(__dirname + '/contact.html'));
});

app.listen(3000);
```