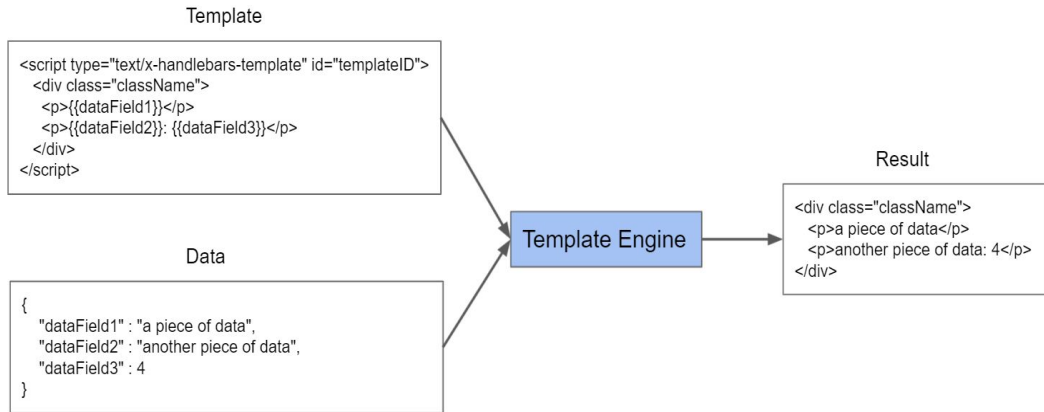




# Lab 7 - Templating

# Templating Engines

- Enables you to use **static template files** in your application.
- At runtime, the template engine replaces variables in a template file with actual values, and transforms the template into an HTML file sent to the client.



We will use [Handlebars](#) templating language for this lab

# Pages



*index.js ( server-side code )*

```
app.get('/', (req, res) => {  
  res.render('pages/home.hbs', { message: 'Welcome!' })  
});
```

*views/pages/home.hbs ( client-side web pages )*

```
<div class="container">  
  <h1>{{message}}</h1>  
</div>
```

# Partials



Partials are used to reuse the same HTML across multiple views.

***Partials: views/partials/footer.hbs***

```
<footer class="text-center text-muted w-100 mt-auto fixed-bottom">
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"
  <p>
    This is a footer
  </p>
</footer>
</body>
</html>
```

***Layout: views/partials/main.hbs***

```
1  {{>head}}
2  {{{body}}}
3  {{>footer}}
4
5
6
```

# Handlebars 101



## {{myVariable}}

- Variables and expressions placed inside these braces will be replaced with their corresponding values when the template is rendered.

Example:

```
<h1>Welcome, {{name}}!</h1>
<p>Your email address is: {{email}}</p>
<p>Your age is: {{age}}</p>
```

## {{#if}} and {{else}}

- Variables and expressions placed inside these braces will be replaced with their corresponding values when the template is rendered.

Example:

```
{{#if isAdmin}}
  <p>Welcome, Admin!</p>
{{else}}
  <p>Welcome, User!</p>
{{/if}}
```

# Handlebars 101



## {{#each}}

- It allows you to render a block of content for each item in the array or each key-value pair in the object.

Example:

```
<ul>
  {{#each items}}
    <li>{{this}}</li>
  {{/each}}
</ul>
```

## {{{body}}}

- It's typically used in layouts or templates that include other templates or partials.

Example:

```
<html>
  <head>
    <title>My Website</title>
  </head>
  <body>
    {{{body}}}
  </body>
</html>
```



## Q/A

Difference between render and redirect?