EJS

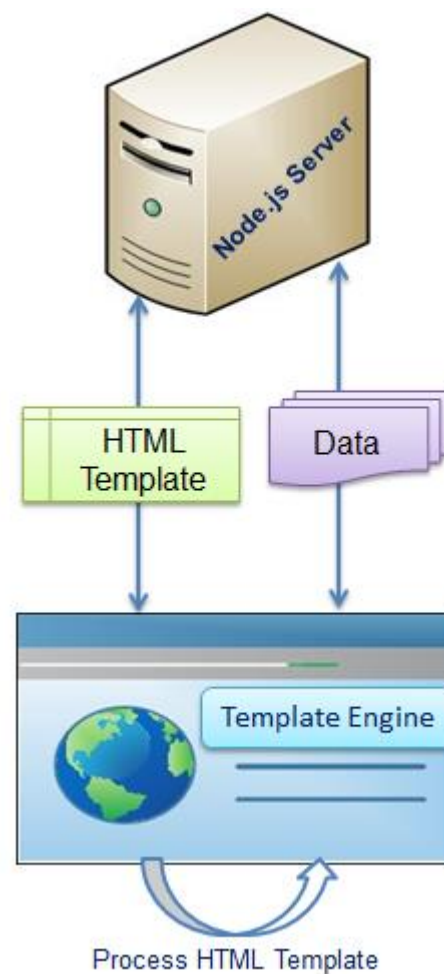## Maktab Sharif
Ramin Afhami

What is Template engine?

Template engine helps us to create an HTML template with minimal code. Also, it can inject data into HTML template at client side and produce the final HTML.
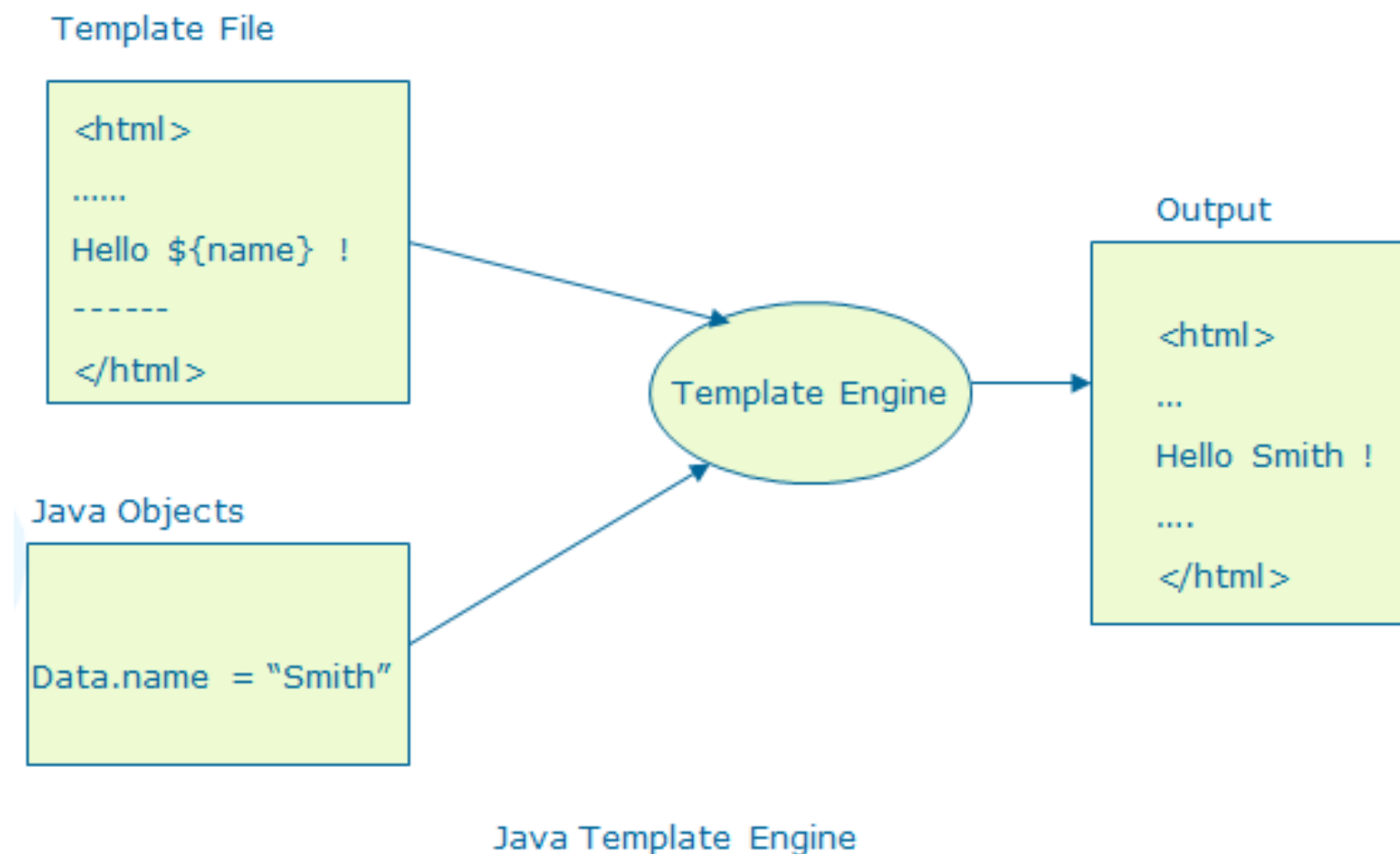
What is Template engine?

There are many template engines available for Node.js. Each template engine uses a different language to define HTML template and inject data into it.
Jade
Vash
EJS
Dust.js

Template File
```
<html>
......
Hello ${name} !
------
</html>
```

Java Objects
```
Data.name = "Smith"
```

Template Engine

Output
```
<html>
...
Hello Smith !
....
</html>
```

Java Template Engine

EJS

For applications that need quick templating, there are many options that we can use. Jade comes as the view engine for Express by default. EJS is one alternative does that job well and is very easy to set up.

- Create HTML markup with simple JavaScript code.
- Fast and easy debugging makes it perfect for everyone!

<%= EJS %>

Embedded JavaScript templating.

File Structure

Here are the files we'll need for our application.

```
- public
- tools
- routers
- views
----- partials
---------- head.ejs
----- pages
---------- index.ejs
- package.json
- app.js
```

skeleton

Setup

All we will need is Express and EJS.

use res.render to load up an ejs view file.

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

// set the view engine to ejs
app.set('view engine', 'ejs');

// index page
app.get('/', function(req, res) {
    res.render('pages/index');
});

app.listen(8080);
```

app.js

EJS Partials

Like a lot of the applications we build, there will be a lot of code that is reused.

```html
<meta charset="UTF-8">
<title>Super Awesome</title>

<link rel="stylesheet" href="//maxcdn.bootstrapcdn.com/bootstrap/3.2.0/css/bootstrap.min.css">
<style>
    body     { padding-top:50px; }
</style>
```
head.ejs

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <%- include('../partials/head') -%>
</head>
<body class="container">

</body>
</html>
```
index.ejs

Passsing Data to Views

A- Pass data res.render

```javascript
app.get('/', function(req, res) {
    const drinks = [
        { name: 'Bloody Mary', drunkness: 3 },
        { name: 'Martini', drunkness: 5 },
        { name: 'Scotch', drunkness: 10 }
    ];
    const tagline = "String var";

    res.render('pages/index', {
        drinks: drinks,
        tagline: tagline
    });
});
```

app.js

Passsing Data to Views

B- Use data in .ejs files

1- Single variables

```
<h2>Variable</h2>                                    Index.ejs
<p><%= tagline %></p>
```

2- Looping over data

```
<h2>Loop</h2>

<ul>                                                 Index.ejs
    <% drinks.forEach(function(drink) { %>
        <li><%= drink.name %> - <%= drink.drunkness %></li>
    <% }); %>
</ul>
```

Finished

Ramin Afhami
afhami.ramin@yahoo.com

Maktab Sharif