

View

Where Pixels Find Their Purpose. Dynamically.

What is MVC

Model (M): (1) Represents the data and business logic of the application.(2) Responsible for data storage, retrieval, and manipulation.(3) Isolated from the user interface (UI) and user interactions.

View (V): (1) Represents the presentation layer.(2) Displays the data to the user.(3) Responds to user input for presentation purposes.

Controller (C): (1) Acts as an intermediary between Model and View.(2) Handles user input and initiates appropriate actions.(3) Updates both Model and View as needed.(4) Maintains the flow of data and application logic.

View engines

Definition: View engines are tools used for dynamic content generation on the server-side.

Purpose: They enable the creation of dynamic HTML pages that can be sent to clients.

Examples of view engines

EJS

Pug

Handlebars

<%= EJS %>

Embedded JavaScript templating.

GET STARTED

<https://ejs.co/>

Initialize ejs in node js - 1

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport"
      content="width=device-width, initial-scale=1.
      0" />
    <title><%= title %></title>
  </head>
  <body>
    <h1><%= title %></h1>
    <p><%= message %></p>
  </body>
</html>
```

Initialize ejs in node js - 2

```
// Import required modules
const express = require('express');
const app = express();

// Set EJS as the view engine
app.set('view engine', 'ejs');

// Define a route that renders an EJS template
app.get('/', (req, res) => {
  // Data to pass to the template (replace with
  // your own data)
  const data = {
    title: 'Hello, EJS!',
    message: 'This is an example of EJS template
    rendering.'
  };

  // Render the EJS template and pass data to it
  res.render('index', data);
});

// Start the server on port 3000
const port = 3000;
app.listen(port, () => {
  console.log(`Server is listening on port ${port}
  `);
});
```

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