

Ex. No.: 05	Settings up the HTML framework with Jade templates and Bootstrap
Date : 21/08/2024	

Aim:

To create a simple web application using Express.js and Pug as the template engine that renders a Bootstrap-styled webpage, displaying a title and message.

Procedure:**1. Set Up the Environment:**

- Ensure Node.js and Visual Studio Code are installed on your system.
- Open Visual Studio Code and create a new project directory.

2. Initialize the Project:

- Open a terminal in VS Code.
- Run the command `npm init -y` to create a package.json file.

3. Install Required Dependencies:

- Install Express and Pug by running:

```
bash
npm install express pug
```

Source Code:

```
doctype html
html
  head
    title #{title}
    meta(charset="UTF-8")
    meta(name="viewport" content="width=device-width, initial-scale=1")
    link(rel="stylesheet",
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css")
  body
    .container
      .row
        .col-md-12.text-center
```

```
h1= title  
p= message  
button.btn.btn-primary Click Me
```

```
const express = require("express");  
const path = require("path");  
const app = express();  
const port = 8000;  
  
// Set Pug as the template engine  
app.set("view engine", "pug");  
  
// Set views directory  
app.set("views", path.join(__dirname, "views"));  
  
// Serve static files (e.g., CSS, JS)  
app.use(express.static(path.join(__dirname, "public")));  
  
// Route to render the Pug template  
app.get("/", (req, res) => {  
  res.render("index", { title: "Bootstrap & Pug", message: "Welcome to Lab 5!" });  
});  
  
// Start the server  
app.listen(port, () => {  
  console.log(Server is running on http://localhost:${port});  
});
```

Output:**Result:****Upon successful execution of the application:**

- A webpage is rendered that uses Bootstrap for styling, displaying a centered title ("Bootstrap & Pug") and a welcome message ("Welcome to Lab 5!").
- A button labeled "Click Me" is present on the page.