### Dynamic UI ::::::;



# 12.1 Need of Dynamic UI



- Personalized Content: Tailors responses based on user profiles, preferences, or behaviors to enhance user experience.
- Dynamic Data Delivery: Provides real-time information that updates with each request, such as live scores or stock prices.
- Security and Access Control: Delivers different content based on user authentication and authorization levels.
- Localization and Internationalization: Adjusts responses to accommodate different languages, cultures, or regional settings.
- · API Versatility: Supports multiple client types (web, mobile, IoT) by providing appropriate data formats and structures.



# 12.2 Sharing using Global Variables <%



```
const homes = [];
 // POST path
 router.post('/add-home', (req, res, next) => {
  homes.push({houseName: req.body.houseName});
  res.redirect('/');
 });
exports.hostRouter = router;
 exports.homes = nomes;
const {homes} = require('../routes/host');
userRouter.get('/', (req, res, next) => {
 console.log('homes', homes);
  res.sendFile(path.join(rootDir, 'views', 'user.html'));
});
```

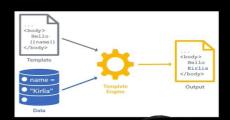
Variables are shared across



### , 12.3 What is EJS



- HTML with JS: EJS lets you embed JavaScript code within HTML.
- Simple Syntax: Uses <% %> for control flow and <%= %> for output.
- Easy to Learn: Familiar to those who know HTML and JavaScript.
- Template Reuse: Supports partials for reusing code snippets.
- Flexible Logic: Allows full JavaScript expressions in templates.





### 12.4 Installing EJS



```
prashantjain@Prashants-Mac-mini air-bnb % npm install --save ejs
added 6 packages, and audited 232 packages in 879ms
```

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

```
app.set('view engine', 'ejs');
app.set('views', 'views');
```



# 12.5 Using EJS Templates



```
// Local Modules
 views
                   const {homes} = require('../routes/host');
   ■ 404.html
   add-home.html
                   userRouter.get('/', (req, res, next) => {

∃ input.css

                     res.render('user', { homes: homes });
   4% user.ejs
                   });
<main class="container mx-auto ■bg-white shadow-lg rounded-lg p-8 mt-10 max-w-xl">
 <h2 class="text-5xl  text-gray-800 font-bold text-center mb-6">
  Available Homes
 </h2>
 <% homes.forEach(function(home) { %>
      <%= home.houseName %>
     <% }); %>
 </main>
```

### 12.6 Working with Partials <!DOCTYPE html> √ Image views <html lang="en"> <head> partials <meta charset="UTF-8" /> <meta name="viewport" content="width=device-width, initial-scale=1.0" /> head.ejs <title><%= title %></title> <link rel="stylesheet" href="/output.css" /> nav.ejs **4**% 404.eis 4% add-home.eis input.css user.ejs

## 12.6 Working with Partials



```
<header class="■bg-red-500 ■text-white p-4 shadow-md">

✓ Image views

 <nav class="container mx-auto flex justify-between items-center">

∨ □ partials

     <
                                                                             4% head.eis
      <a
        href="/"
                                                                            nav.ejs
        class="■hover:bg-red-400 py-2 px-4 rounded transition duration-300"
        >Go to Home</a
                                                                           4% 404.ejs
                                                                           4% add-home.ejs
     <a
        href="/host/add-home"
        class="■hover:bg-red-400 py-2 px-4 rounded transition duration-300"
        >Add Home</a
     </nav>
</header>
```

# 12.6 Working with Partials

