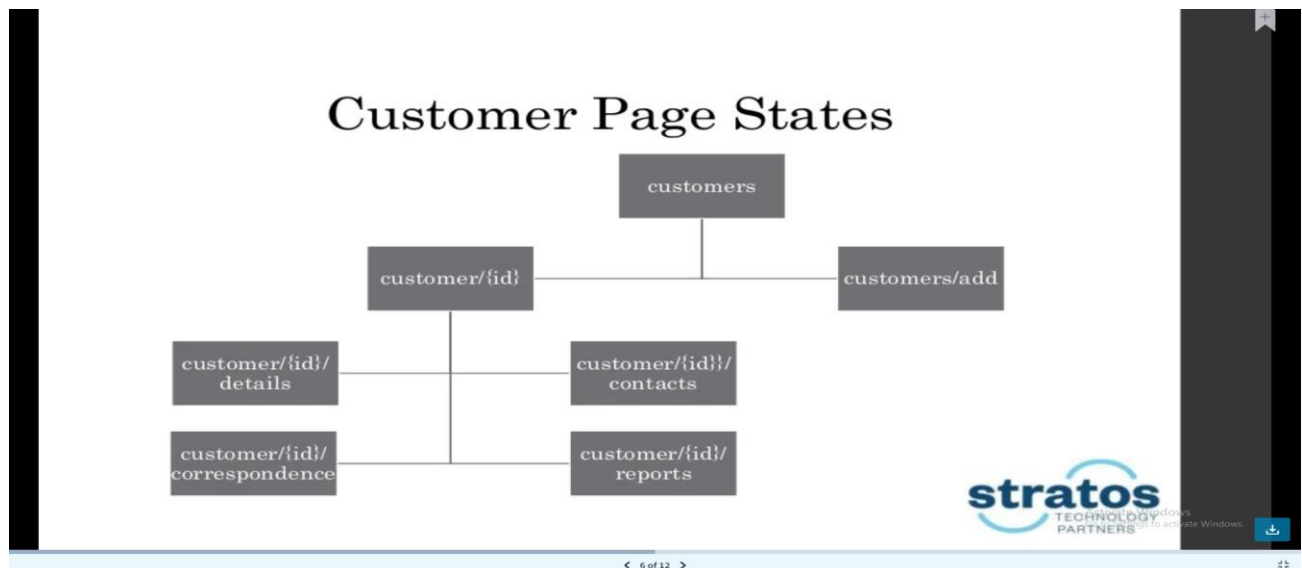


Case Study on Angular

Case Study: Customer Page States



Objective:

To streamline the navigation and user interaction on the customer management platform by organizing customer-related pages into a structured hierarchy.

Hierarchy Overview:

1. Main Customer States:

- **customers:** The main page that lists all customers.
 - **customers/add:** A dedicated page for adding a new customer to the system.
2. **Customer-Specific Pages:** Each customer has a unique ID, represented as {id}, and their information is accessible via specific states:
- **customer/{id}:** The main dashboard or overview page for a specific customer.
 - **Child States of customer/{id}:**
 - **customer/{id}/details:** Provides detailed information about the customer.
 - **customer/{id}/contacts:** Lists the customer's associated contacts.
 - **customer/{id}/correspondence:** Displays correspondence or communication history.
 - **customer/{id}/reports:** Shows reports related to the customer.
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Use Case Scenarios:

1. **Customer Management:**
 - A user navigates to the customers page to view all registered customers.
 - If a new customer needs to be added, the user transitions to customers/add.
 2. **Accessing Customer Information:**
 - Clicking on a specific customer navigates the user to customer/{id}.
 - From there, users can dive deeper into:
 - Viewing customer-specific **details**.
 - Managing customer **contacts**.
 - Reviewing customer **correspondence** for historical communication logs.
 - Analyzing **reports** for insights.
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Benefits of the Page Structure:

1. **User-Friendly Navigation:** The hierarchy ensures clear, intuitive paths for users to follow based on their specific needs (e.g., adding customers or viewing reports).
2. **Scalability:** Adding new customer-specific functionalities (like billing or orders) is straightforward, as new states can seamlessly branch from customer/{id}.

3. **Separation of Concerns:** The structure isolates different concerns, like details, contacts, and reports, reducing complexity on individual pages and improving performance.
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Challenges and Considerations:

1. **Data Loading:** Ensure efficient data fetching for child states (details, contacts, etc.) to avoid performance lags.
 2. **Access Control:** Implement role-based access to ensure users only view or edit customer data they're authorized for.
 3. **Consistency:** Maintain consistent UI/UX patterns across states for a smooth user experience.
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