**Lazy Loading Blog App**

**Level 0: Context Diagram**

**Overview:**

The Lazy Loading Blog App enhances performance by loading pages only when needed. It uses React Lazy & Suspense to dynamically load components, reducing the initial load time.

**Entities & Processes:**

User → Navigates between pages and views blog content.  
 Lazy Loading Blog App (Process 1.0) → Manages lazy loading, navigation, and data fetching.  
 Database (Data Store) → Stores posts, images, and quotes.

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| User |

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| Lazy Loading Blog App |

| (Process 1.0) |

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| Database |

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**Level 1: Detailed Breakdown**

Process 1.1 - Navigation & Routing (React Router): Handles page transitions.  
Process 1.2 - Lazy Loading Components (React Lazy & Suspense): Loads components when needed.  
Process 1.3 - Home Page (Lazy Loaded - Home.js): Displays featured posts.  
Process 1.4 - About Page (Lazy Loaded - About.js): Loads on demand.  
Process 1.5 - Contact Page (Lazy Loaded - Contact.js): Loads only when accessed.  
Process 1.6 - Dynamic Posts (Lazy Loaded - Posts.js): Fetches & loads post details dynamically.  
Process 1.7 - Styled Components (StyledComponents.js): Enhances UI.

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| Process 1.1 - Navigation & |

| Routing (React Router) |

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| Process 1.2 - Lazy Loading |

| (React Lazy & Suspense) |

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| Process 1.3 - Home Page |

| (Lazy Loaded - Home.js) |

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| Process 1.4 - About Page |

| (Lazy Loaded - About.js) |

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| Process 1.5 - Contact Page |

| (Lazy Loaded - Contact.js) |

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| Process 1.6 - Dynamic Posts |

| (Lazy Loaded - Posts.js) |

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| Process 1.7 - Styled Components |

| (StyledComponents.js) |

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**Data Flow:**

Step 1: The User navigates through pages using React Router.  
 Step 2: React Lazy & Suspense load only the required components.  
 Step 3: The Home Page loads when accessed.  
 Step 4: The About Page is lazy-loaded when opened.  
 Step 5: The Contact Page loads only when needed.  
 Step 6: The Posts Page dynamically fetches and displays blog posts, flower images, and quotes.  
 Step 7: Styled Components enhance UI design.