**Naresh I technologies**

**Test paper**

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Implement a Java web application demonstrating Servlet configuration and context attributes with the following requirements:

1. **Servlet Configuration (15 Marks)**
   * Create ConfigDemoServlet that reads two init parameters from its ServletConfig:
     + defaultUser (default: "Guest")
     + maxAttempts (default: 3)
   * Display these parameters in response with proper formatting
   * Handle missing parameters using default values
2. **Context Attributes (20 Marks)**
   * In ConfigDemoServlet's init() method:
     + Set application-wide attributes in ServletContext:
       - appName = "AttributeDemoApp"
       - startTime = current timestamp
   * Create ContextInfoServlet that:
     + Retrieves and displays these context attributes
     + Calculates & displays application uptime in hours/minutes
3. **Attribute Modification (10 Marks)**
   * In ContextInfoServlet:
     + Update appName attribute to "UpdatedDemoApp"
     + Add new context attribute accessCount that increments with each access
4. **Error Handling (5 Marks)**
   * Handle NumberFormatException for init parameters
   * Implement proper exception handling for null context attributes