**Objective:** Create an advanced BPMN process in Camunda to handle an order processing workflow with external integrations, complex decision logic, and error handling.

**Requirements:**

1. **Process Definition:**
   * Create a BPMN process named OrderProcessingWorkflow.
   * The process should have the following steps:
     1. **~~Start Event~~**~~: The process starts when an order is placed.~~
     2. **~~User Task~~**~~: Validate the order details.~~
     3. **Service Task**: Check inventory availability by integrating with an external inventory system.
     4. **~~Exclusive Gateway~~**~~: Decision point to determine if the order can be fulfilled.~~
     5. **~~Service Task~~**~~: If inventory is available, place the order in the external order management system.~~
     6. **~~Parallel Gateway~~**~~: Parallel tasks for:~~
        + **~~Service Task~~**~~: Send an order confirmation email.~~
        + **~~Service Task~~**~~: Update order status in the CRM system.~~
     7. **Boundary Event**: Handle errors during the inventory check and order placement.
     8. **User Task**: Manual intervention in case of errors.
     9. **~~End Event~~**~~: The process ends after all tasks are completed.~~
2. **~~Form Fields:~~**
   * ~~For the~~**~~Validate Order Details~~**~~user task, create a form with fields for:~~
     + ~~Order ID~~
     + ~~Customer Name~~
     + ~~Product List~~
     + Order Total
3. **External Integrations:**
   * Implement the service tasks to integrate with external systems (mock integrations are acceptable):
     + Inventory System
     + Order Management System
     + CRM System
4. **Decision Logic:**
   * Implement decision logic in the exclusive gateway to route the flow based on inventory availability.
5. **Error Handling:**
   * Use boundary events to handle potential errors during the inventory check and order placement.
   * Implement a user task for manual intervention in case of errors.
6. **Testing:**
   * Provide instructions on how to deploy and test the process in a local Camunda instance.
   * Include sample data and mock services for testing.

**Deliverables:**

1. The BPMN model file.
2. Spring boot – External task Java classes for the service tasks and error handling.
3. Instructions for deploying and testing the process.
4. A brief explanation of the decision logic and error handling.