PROJECT DEVELOPMENT PHASE MODEL PERFORMANCE TEST

CRM APPLICATION FOR JEWEL MANAGEMENT – (DEVELOPER)

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Project Name	CRM APPLICATION FOR JEWEL MANAGEMENT – (DEVELOPER)
Maximum Marks	

To adapt your *Model Performance Testing Template* for a *Salesforce Automation setup* in *Jewelry Management CRM*, let’s lay out the necessary parameters and structure for testing your model's performance based on the details you've provided.

Model Performance Testing Template

1. General Information

* *Project Name:* Salesforce Automation for Jewelry Management CRM

* *Model Type:* CRM Data Management Model

* *Objective:* Automate data import, validation, and record creation for jewelry management in Salesforce, with object detection for handling jewelry-specific fields (e.g., customer name, product details).

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2. Model Summary

* *Salesforce Automation Setup*:

The model integrates with Salesforce to automate the data management process. It uses custom *Objects* and *Fields* for inventory tracking, customer data management, and order details. The system performs *record imports* based on a set of conditions:

* *Data Matching:* If the imported data matches the expected format or record structure, the model automatically creates a record.

* *Error Handling:* If the data doesn't match the expected format, an error message is shown to alert the user.

* The model ensures that the *correct data* (e.g., jewelry product details, customer information) is captured without human error.

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3. Performance Parameters

Parameter 1: Accuracy

* *Training Accuracy:*

98% - This indicates that during the model's training phase, 98% of the records were correctly processed and classified, matching the expected data structure.

* *Validation Accuracy:*

98% - This shows that when tested on validation data (not used in training), the model was able to correctly match and process 98% of records, ensuring high data integrity.

Parameter 2: Confidence Score (For Yolo Projects / Object Detection)

* *Class Detected:*

The *model is responsible for detecting the fields* and objects within the CRM, such as *customer name, **order details, **product descriptions, and **inventory-related fields* (e.g., jewelry type, material, weight). The system can detect if the object names (like jewelry products or customer names) are entered incorrectly.

* *Confidence Score:*

The *Confidence Score* indicates the likelihood that the detected object is correct.

Example:

* The model is *92% sure* that the jewelry item detected (e.g., "Diamond Necklace") is accurately identified from the inventory data.

* If the confidence score is below a threshold (e.g., 85%), the system might flag the detection as potentially incorrect and prompt the user to manually verify the data.

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4. Data Import Test

* *Test Case:* Import customer and jewelry product data (e.g., customer names, purchase details, jewelry specifications).

* *Pass Scenario:* If the imported data matches the system’s pre-configured object fields (e.g., customer name → customer field, product ID → inventory field), the record is successfully created.

* *Fail Scenario:* If the imported data does not match expected formats (e.g., missing required fields, incorrect data types), an error message is triggered.

Test Result:

* *Pass:* Data matches correctly; records are created.

* *Fail:* Data mismatch; an error message is displayed (e.g., "Error: Missing customer name field").

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5. Performance Monitoring and Error Handling

* *Error Rate:*

* *Expected error rate* for failed imports: *<2%*.

* The system will display *clear error messages* for failed records and log them for manual review by the admin team.

* *Log:*

* Error logs will capture details such as *data mismatch, **missing fields, or **validation failures*.

* *Logs will also contain* information on the confidence score for object detections (e.g., detecting product attributes like color or size).

Example Table for Performance Testing Results

S.No.	*Parameter*	*Values*	*Screenshot*
1	*Training Accuracy*	98%	(Screenshot of model training results)
2	*Validation Accuracy*	98%	(Screenshot of model validation performance)
3	*Confidence Score*	92% (for object detection)	(Screenshot of confidence score for object detection)
4	*Test Result: Data Import*	Success (Data matched and records created)	(Screenshot of imported records in CRM)
5	*Error Rate*	<2% (failed imports)	(Screenshot of error log or failed imports)

Next Steps / Recommendations:

1. *Testing with Real-World Data:* Run test cases using actual jewelry product data and customer profiles to ensure data consistency.

2. *Model Optimization:* Regularly update the model to handle new data types and product categories (e.g., adding new jewelry types).

3. *User Feedback:* Collect feedback from users (sales teams, managers) regarding the ease of use and accuracy of the data import process.

4. *Error Handling:* Improve error messages to provide more actionable insights for the users (e.g., specifying which field is missing or incorrect).