Amazon Q

PROMPT TO DEVELOP AWS LAMBDA FUNCIONS

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01

POST METHOD LAMBDA FUNCTION PROMPT

Generate an AWS Lambda function in Python that puts an item into a DynamoDB table. The table name should be retrieved from an environment variable called TABLE_TABLE_NAME. The function should accept an HTTP POST request via API Gateway, with the item id specified as a path parameter and item details (name, price, category) provided in the request body. The function should handle the following:

- Retrieve the table name from the environment variable.
- Parse the id from the path parameters.
- Parse the item details (name, price, category) from the request body.
- Convert the price to a Decimal type to handle DynamoDB's number type.
- Put the item into the DynamoDB table.
- Return a 200 status code if the item is updated, or a 201 status code if the item is created.
- Return a 500 status code with an error message if any exception occurs.

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02

GET METHOD LAMBDA FUNCTION PROMPT

Generate an AWS Lambda function in Python that deletes an item from a DynamoDB table. The table name should be retrieved from an environment variable called TABLE_TABLE_NAME. The function should accept an HTTP DELETE request via API Gateway, with the item id specified as a path parameter. The function should handle the following:

- Retrieve the table name from the environment variable.
- Parse the id from the path parameters and convert it to an integer.
- Delete the item from the DynamoDB table using the id as the key.
- Return a 200 status code with a message if the item is deleted successfully.
- Return a 404 status code with a message if the item is not found.
- Return a 500 status code with an error message if any exception occurs.

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03

DELETE METHOD LAMBDA FUNCTION PROMPT

Generate an AWS Lambda function in Python that deletes an item from a DynamoDB table. The table name should be retrieved from an environment variable called TABLE_TABLE_NAME. The function should accept an HTTP DELETE request via API Gateway, with the item id specified as a path parameter. The function should handle the following:
- Retrieve the table name from the environment variable.
- Parse the id from the path parameters and convert it to an integer.
- Delete the item from the DynamoDB table using the id as the key.
- Return a 200 status code with a message if the item is deleted successfully.
- Return a 404 status code with a message if the item is not found.
- Return a 500 status code with an error message if any exception occurs.

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