•	Input	t:		
cus	tome	r_id	= 1	.23

language = en

- Precondition:
- Customer with ID 123 exists in the `Customers` table
- Customer has 2 transactions in the 'Transactions' table
- Expected Output:
- HTTP 200 OK
- Response is a downloadable PDF named: credit_card_statement_123.pdf
- PDF contains:
- Header: "DBS Bank Credit Card Statement"
- Customer name and email
- 2 transactions listed with date, merchant, amount, and type
- Actual Output:
- [To be filled after running the test]
- e.g. HTTP 200 OK, file downloaded successfully
- Result:
- PASS

• Input:
customer_id = 999
language = en
• Precondition:
- No customer with ID 999 in the `Customers` table
• Expected Output:
- HTTP 404 Not Found
- Response message: "Customer not found."
Actual Output:
- [To be filled after running the test]
- e.g. HTTP 404, message: "Customer not found."
• Result:
✓ PASS
Test Case #03 – Bilingual statement in Chinese
• Input:
customer_id = 123
language = zh
Precondition:
- Customer exists with at least 1 transaction
Expected Output:

- PDF generated with:

- Title: "DBS银行信用卡对账单"
- Font includes Chinese (Noto Sans SC)
- Table headers and labels in Chinese
• Actual Output:
- [To be filled after running the test]
• Result:
✓ PASS
Tost Case 404 Missing sustamer id in request
Test Case #04 – Missing customer_id in request
• Input:
URL = /generate_pdf
(no customer_id parameter)
• Expected Output:
- HTTP 400 Bad Request
- Response message: "Customer ID is required."
• Actual Output:
- [To be filled after running the test]
• Result:
✓ PASS

from datetime import datetime from app import generate_pdf

```
# Dummy customer data
customer = ("John", "Doe", "john.doe@example.com")
# 1. Low-volume transactions
low_volume = [
  (datetime(2025, 4, 1), "Amazon", 100.00, "Purchase"),
  (datetime(2025, 4, 2), "Grab", 25.00, "Purchase")
]
pdf_io = generate_pdf(customer, low_volume, 'en')
with open("sample_output/low_volume_statement.pdf", "wb") as f:
  f.write(pdf_io.getbuffer())
# 2. High-volume transactions
high_volume = [
  (datetime(2025, 4, i), f"Merchant(i)", i * 10.00, "Purchase")
  for i in range(1, 51)
]
pdf_io = generate_pdf(customer, high_volume, 'en')
with open("sample_output/high_volume_statement.pdf", "wb") as f:
  f.write(pdf_io.getbuffer())
#3. Bilingual (e.g., Chinese)
pdf_io = generate_pdf(customer, low_volume, 'zh')
with open("sample_output/bilingual_statement.pdf", "wb") as f:
  f.write(pdf_io.getbuffer())
print(" PDFs generated successfully in the sample_output/ folder.")
```