

ST10460792

CLDV6212

POE Part 2

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Group 3

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Links

URL of Deployed Web Application

<https://abcretailers20250828210027.azurewebsites.net/>

GitHub Link for Web Application Source Code

<https://github.com/MtamboGoshen/CLDV6212part2.git>

YouTube video

<https://youtu.be/GN7-uZSYZGE>

Screenshots

Screenshot of Customer View (Web Application UI)

AbcRetailers Home Privacy

Customers

Create New Customer

First Name	Last Name	Username	Email	Shipping Address	Actions
Ja	Morant	jawick	jm@gmail.com	Memphis	<div>DetailsEditDelete</div>
Lebron	James	kingjames	lj@gmail.com	LA	<div>DetailsEditDelete</div>
James	Harden	thebeard	jh@gmail.com	LA	<div>DetailsEditDelete</div>
lamar	davies	ld	ld@gmail.com	Ruimsig	<div>DetailsEditDelete</div>
Stephen	Curry	chefcurry	sc@gmail.com	San Francisco	<div>DetailsEditDelete</div>

Screenshot of Customer Table Store (Azure Portal)

Tables > Customer

Authentication method: Access key (Switch to Microsoft Entra user account)

Add filter





Showing all 5 items

	PartitionKey	RowKey	Timestamp	Name	Surname
	Customer	62d2a5048dd845f5bb57c...	2025-10-06T10:19:08.4252...	Ja	Morant
	Customer	7fc57dc08fca4f9480730bf...	2025-10-06T10:18:00.5436...	Lebron	James
	Customer	b10fca06db1946d4ad11ef...	2025-10-06T10:17:29.4682...	James	Harden
	Customer	bc275b9ac9df416687031b...	2025-10-06T08:20:59.8312...	lamar	davies
	Customer	e0c379616feb45ca89acb8...	2025-10-06T10:18:41.3502...	Stephen	Curry


Surname	Username	Email	ShippingAddress
Morant	jawick	jm@gmail.com	Memphis
James	kingjames	lj@gmail.com	LA
Harden	thebeard	jh@gmail.com	LA
davies	ld	ld@gmail.com	Ruimsig
Curry	chefcurry	sc@gmail.com	San Francisco












Azure Table Storage

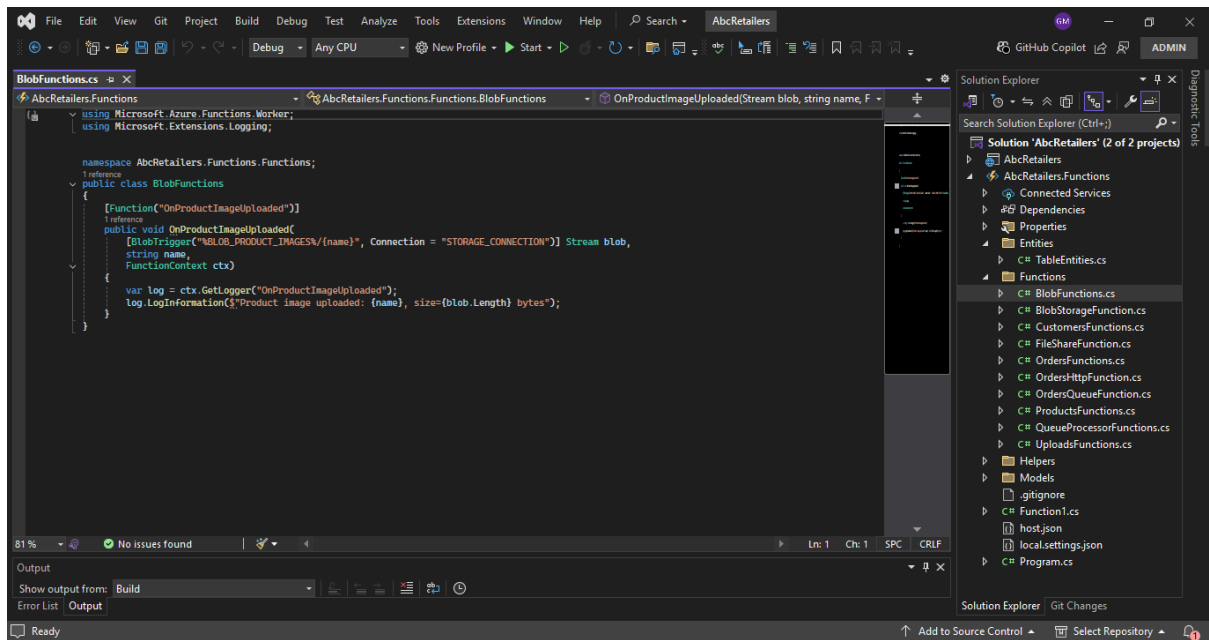
Showing all 4 items

<input type="radio"/>	Name	Url
<input type="radio"/>	 Customer	https://cldv6112poe.table.core.windows.net/Customer
<input type="radio"/>	 Order	https://cldv6112poe.table.core.windows.net/Order
<input type="radio"/>	 Product	https://cldv6112poe.table.core.windows.net/Product
<input type="radio"/>	 Upload	https://cldv6112poe.table.core.windows.net/Upload

Azure Blob Storage

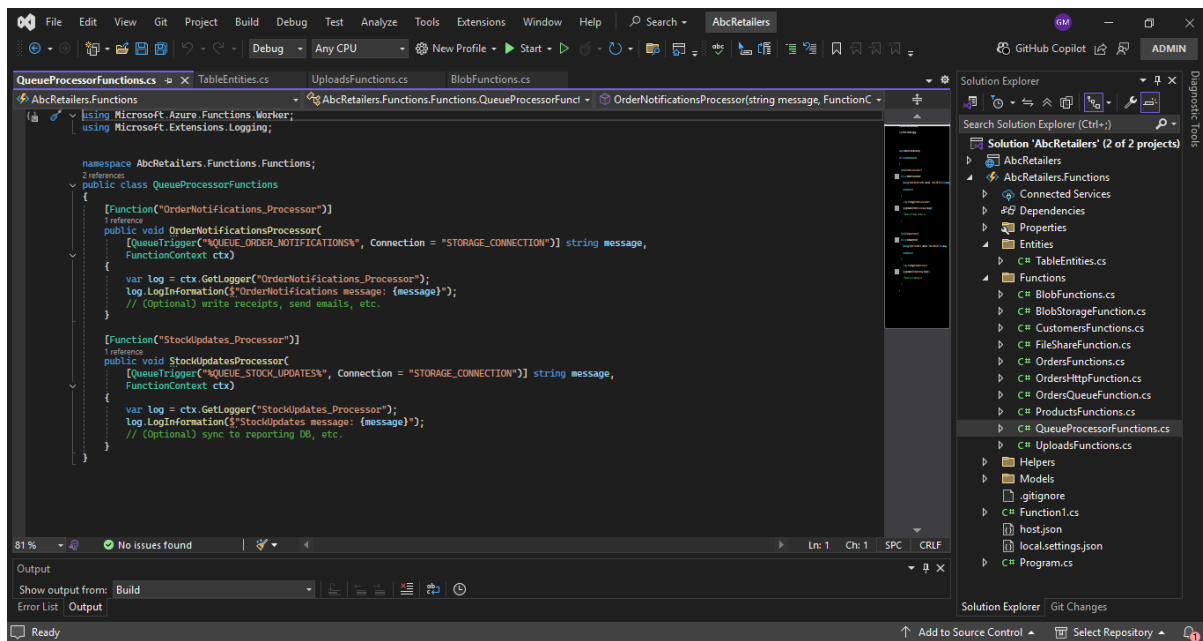
 Blob containers

<input type="text" value="Search containers by prefix"/>					<input type="text" value="Only show active containers"/>	
Showing all 5 items						
<input type="radio"/>	Name	Last modified	Anonymous access level	Lease state		
<input type="radio"/>	 \$logs	10/2/2025, 5:20:49 PM	Private	Available		
<input type="radio"/>	 azure-webjobs-hosts	10/4/2025, 9:50:30 PM	Private	Available		
<input type="radio"/>	 azure-webjobs-secrets	10/4/2025, 9:49:25 PM	Private	Available		
<input type="radio"/>	 payment-proofs	10/5/2025, 6:57:41 PM	Private	Available		
<input type="radio"/>	 product-images	10/6/2025, 1:22:40 PM	Blob	Available		



	Name	Last modified	Access tier	Blob type	Size
	2909000c...	10/6/2025, 12:50:41 PM	Hot (Inferred)	Block blob	65.37 KiB
	3adc0d016...	10/6/2025, 1:18:14 PM	Hot (Inferred)	Block blob	65.37 KiB
	6529bd898...	10/6/2025, 12:50:30 PM	Hot (Inferred)	Block blob	4.23 KiB
	d7eeae4c9...	10/6/2025, 10:37:13 PM	Hot (Inferred)	Block blob	34.04 KiB
	e8cfa0fa7b...	10/6/2025, 12:05:54 AM	Hot (Inferred)	Block blob	89.4 KiB
	sample-pro...	10/5/2025, 6:57:41 PM	Hot (Inferred)	Block blob	85 B

Azure Queue Storage



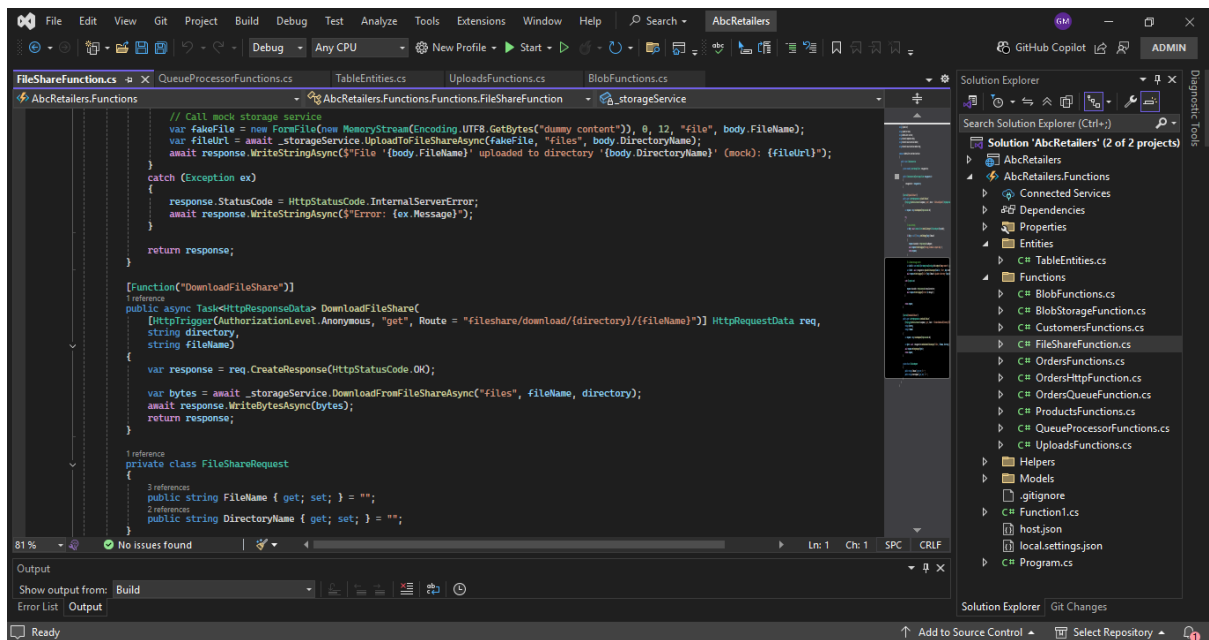
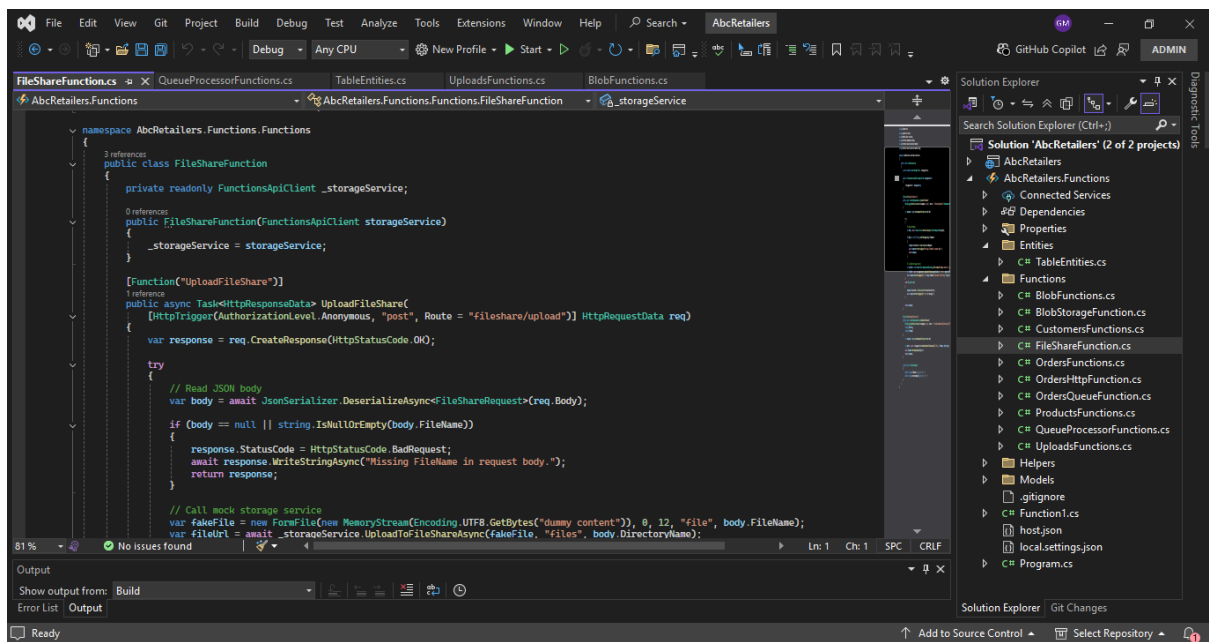
<input type="radio"/>	azure-webjobs-blobtrigger-lab7195...	https://cldv6112poe.queue.core.windows.net/azure-webjobs-blobtrigg	
<input type="radio"/>	order-notifications	https://cldv6112poe.queue.core.windows.net/order-notifications	
<input type="radio"/>	order-notifications-poison	https://cldv6112poe.queue.core.windows.net/order-notifications-poison	
<input type="radio"/>	stock-updates	https://cldv6112poe.queue.core.windows.net/stock-updates	
<input type="radio"/>	stock-updates-poison	https://cldv6112poe.queue.core.windows.net/stock-updates-poison	

Azure File Storage

File shares

Showing all 0 items

<input type="radio"/>	Name	Tier	Modified	Quota
No items found				



Written answers

Question 1

Event Hubs and Event Buses are both used to handle events in distributed systems, but they serve different purposes. An **Event Hub** is designed for high-throughput ingestion of large streams of events, temporarily storing and forwarding them to consumers for real-time processing or analytics. An **Event Bus**, on the other hand, acts as a messaging backbone where events are published and any interested service can subscribe, enabling decoupled communication between components. While Event Hubs focus on scale and speed, Event Buses prioritize integration and system flexibility.

Question 2

In the ABC Retail web app, Event Hubs improve customer experience by processing large streams of user actions in real time, enabling instant recommendations, personalized offers, and timely notifications. Event Buses enhance experience by connecting different systems—like inventory, payment, and delivery—so that actions such as placing an order automatically update stock, confirm payment, and notify customers. Together, they make the app more responsive, reliable, and personalized, ensuring smoother interactions and faster service for users.

References

Microsoft. (2025). Overview of features - Azure Event Hubs. Available at:
<https://learn.microsoft.com/en-us/azure/event-hubs/event-hubs-features>

Microsoft. (2025). Compare Azure messaging services. Available at:
<https://learn.microsoft.com/en-us/azure/service-bus-messaging/compare-messaging-services>

Softweb Solutions. (2023). Azure Service Bus vs Azure Event Hub: A technical guide. Available at: <https://www.softwebsolutions.com/resources/azure-service-bus-vs-event-hub.html>

Stack Overflow. (2020). Message bus vs. Service bus vs. Event hub vs Event grid. Available at: <https://stackoverflow.com/questions/57740782/message-bus-vs-service-bus-vs-event-hub-vs-event-grid>