Quality Assurance Testing

Application Portfolio Website Backend

Version 1.0

Environment Development/Production E2E

Date Tested 7.31.2023

Performance Test Plan

PortfolioWebsite_Backend_Performance.jmx

Performance Testing:

Small Load Test

Purpose: To verify if the system can handle the minimum expected user load.

Parameters:

Number of Threads (Users): 50

Ramp-Up Period (in seconds): 20

Loop Count: 10

Screenshot:

Label	# Samples	Average	Median	90% Line	95% Line	99% Line	Min	Maximum	Error %	Throughput	Received KB/sec
Register User R											0.20
Delete User Req		7899		10669							0.11
Login User Req								10044			0.33
Get Users Requ											0.56
Update User Re		9548									0.33
Refresh Token								9946			0.32
Forgot Passwor			9046								0.12
Reset Password								9486			0.26
Reset Password		6062			9487	9941				26.7/min	0.12
Logout User					9486	9947				26.7/min	0.18
Get Contacts R					9435						0.17
Get Contacts B						9940					0.18
Get Contacts B								9964			0.18
Get Contacts B											0.12
Add Contact											0.19
Update Contact								14042			0.19
Delete Contact					10341						0.14
TOTAL				9946							3.56

Medium Load Test

Purpose: To verify if the system can handle the minimum expected user load.

Parameters:

Number of Threads (Users): 100

Ramp-Up Period (in seconds): 40

Loop Count: 10

Screenshot:

Label	# Samples	Average	Median	90% Line	95% Line	99% Line	Min	Maximum	Error %	Throughput	Received KB/sec
Register User R						28420					
Delete User Req										26.4/min	
Login User Req				14417						26.3/min	
Get Users Requ											
Update User Re						28680					
Refresh Token		10240								26.4/min	
Forgot Passwor		18641	18489			28419				26.4/min	
Reset Password					16849					26.4/min	
Reset Password										26.4/min	
Logout User				16408						26.4/min	
Get Contacts R								20407			
Get Contacts B					18346						
Get Contacts B				15862						26.7/min	
Get Contacts B		10064									
Add Contact											
Update Contact								138008			
Delete Contact		16680	15869					146688			
TOTAL		13242	12780	19650	22156	27170	808	146689	0.00%	7.4/sec	

Heavy Load Test

Purpose: To verify if the system can handle the minimum expected user load.

Parameters:

Number of Threads (Users): 200

Ramp-Up Period (in seconds): 80

Loop Count: 10

Screenshot:

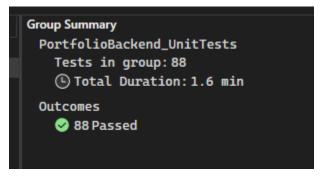
			Median					Throughput	
Register User R									
Delete User Req						49084			
Login User Req									
Get Users Requ								26.7/min	
Update User Re									
Refresh Token									
Forgot Passwor				46492				26.4/min	
Reset Password								26.4/min	
Reset Password								26.4/min	
Logout User		20401							
					34494	38482			
								26.7/min	
Add Contact		34679			49434	54601		26.7/min	
Update Contact					46806		166623		
Delete Contact					44814		157400		
TOTAL	34000			39163		50840		7.4/sec	

Service Tests:

ATTDs

Group Summary PortfolioBackend_ATDDs Tests in group: 37 ⑤ Total Duration: 1.4 min Outcomes Ø 37 Passed

Unit Tests



Code Coverage

		•								
Co	verage	Summary	Risk Hotspots	Coverage Log						
	Assemblies:		3	3						
	Classe	es:	74	74						
	Files:		74							
	Covered lines: Uncovered lines: Coverable lines:		3133							
			728							
			3861	3861						
	Total	lines:	5905							
	Line o	overage:	81.1% (3133	of 3861)						
	Covered branches: Total branches: Branch coverage:		338							
			558							
			60.5% (338 c	of 558)						

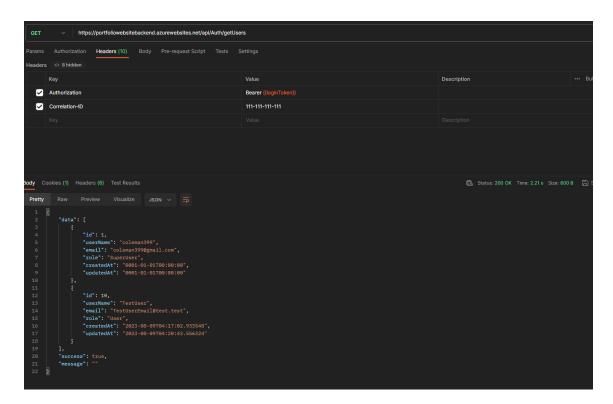
Production End to End:

1. Log in

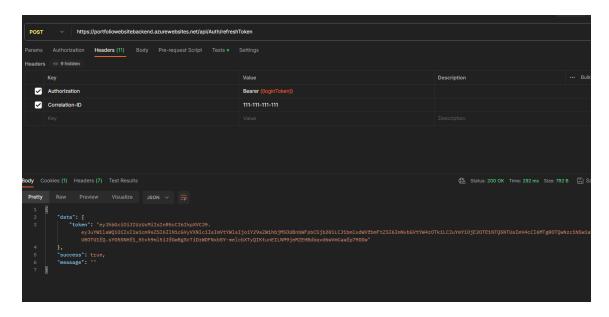
2. Register User

3. Update User

4. Get Users



5. Refresh Token



6. Forgot Password

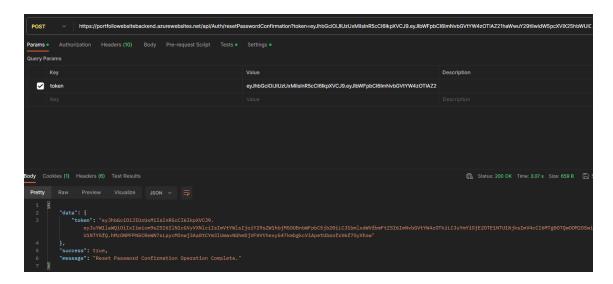
```
Post v https://portfollowebitebackend.azurewebsites.net/api/Auth/forgotPassword

Params Authorization Headers (11) Body Pre-request Script Tests Settings

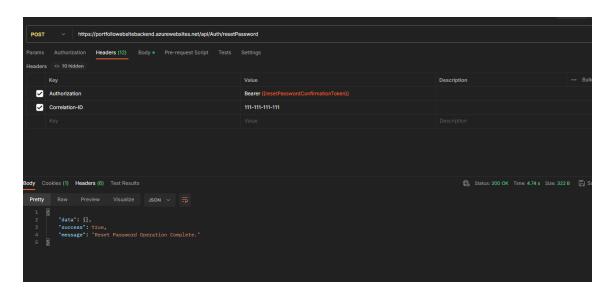
none form-data xwww-form-unfenceded raw binary GraphQL JSON v

Last Settings Setti
```

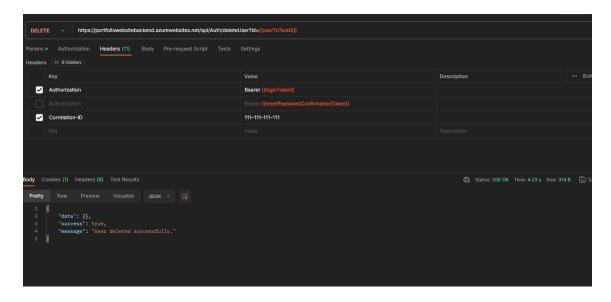
7. Reset Password Confirmation



8. Reset Password



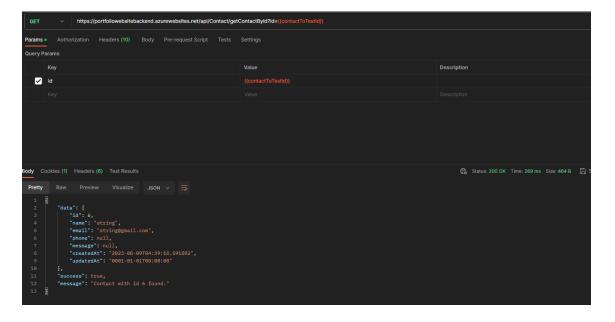
9. Delete User



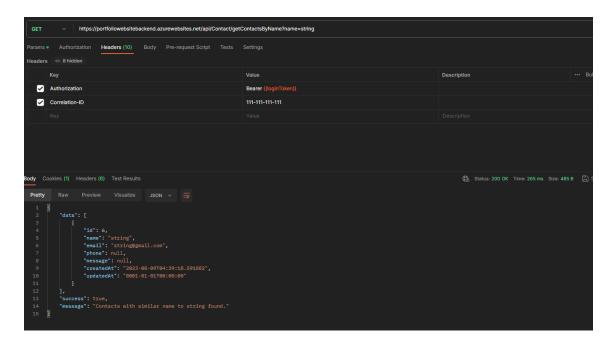
10. Get Contacts

11. Add Contact

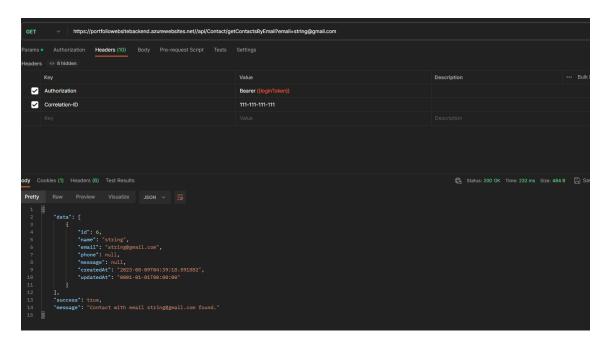
12. Get Contact by Id



13. Get Contact by Name

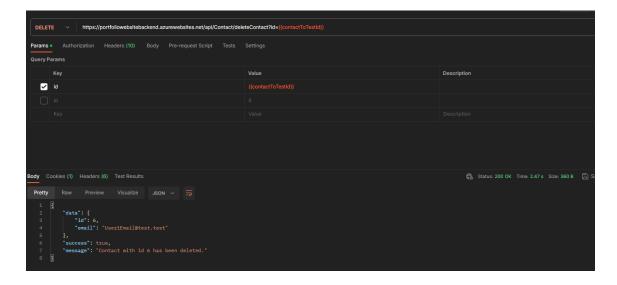


14. Get Contact by Email

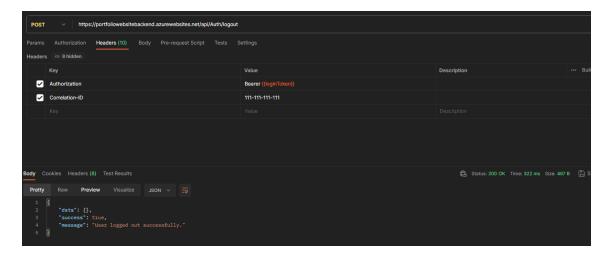


15. Update Contact

16. Delete Contact



17. Logout User



18. Health Check

