# Test Plan

I will be testing the REST API in the following 3 ways:

* Manual Testing using Postman
* Unit Testing using Visual Studio
* Build Testing using Github Workflows

# Tests

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| --- | --- | --- | --- | --- | --- |
| Test Number | Description | Type | Expected Result | Actual Result | Pass/Fail |
| 1 | Acquire User information without Authorization Header | Postman | Server to respond with 401 | As expected | Pass |
| 2 | Encrypt a given string, then decrypt it. | Unit | Decrypted string to match the original string. | As expected | Pass |
| 3 | Decrypt a given string, then re-encrypt it. | Unit | Encrypted string to match the original string. | As expected | Pass |
| 4 | Convert string to base64 and back again using extension method | Unit | String converted back from base64 to match original string. | As expected | Pass |
| 5 | Acquire User information with Authorization header | Postman | Server to respond with 200 plus a welcome message. | As expected | Pass |