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Mr Buggy 7 – API Testing TEST REPORT

Tester: Jan Kowalski

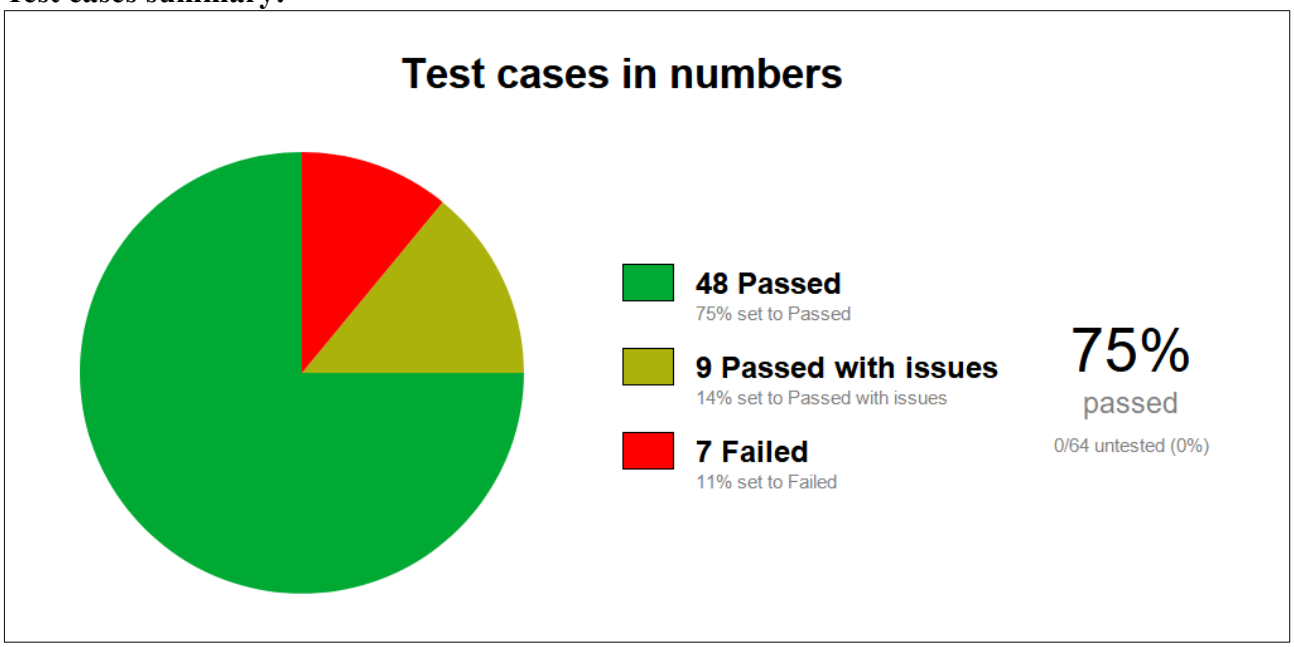
Total estimated time: 21h (3x 7h sessions over 3 days)
API testing with Postman: 17h
Reporting: 4h

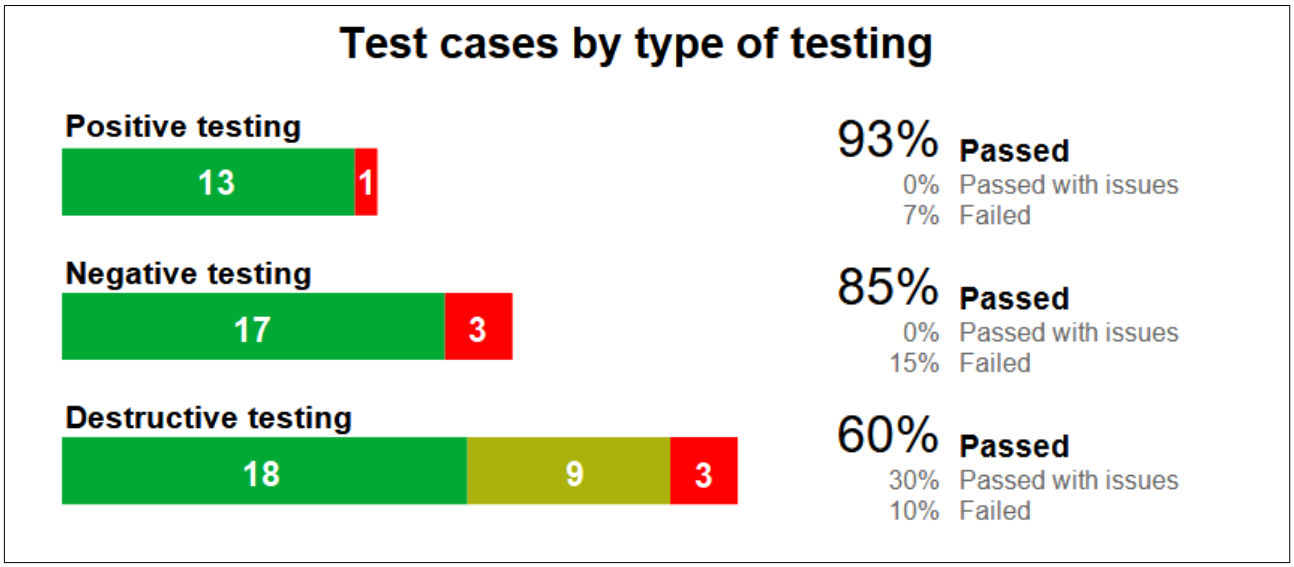
Summary:
Following API testing has been based on pre-made Test Cases delivered by the Test Lead. The main goal of the sessions was to methodically check every resource of the USER group by conducting positive, negative and destructive scenarios, using valid and invalid methods, different levels of access and authentication, as well as diversifying possible data sets to check validation methods and overall API reliability.

Environment	**Tools:**
Lenovo ThinkPad T440p • Intel(R) Core(TM) i7-4712MQ CPU @ 2.30GHz • Intel(R) HD Graphics 4600 • 8.00 GB RAM • 1920x1080 Display • Windows 10 Pro 64-bit, version 21H2, build 19044.1826	• Postman v9.29.0 • ShareX 14.1 • Lightshot 5.5.0.4 • LibreOffice 7.2.7.2 • Git with GitHub integration

Tested areas	**Untested areas**
• USER endpoints functionalities • authorisation at USER endpoints • valid/invalid methods at USER endpoints • validation of USER endpoints forms	• UNIT endpoints • PROVIDER endpoints • CR endpoints

Test cases summary:





Reported issues (by priority):

Priority	Amount	ID
Critical	1	MB7-A01
High	3	MB7-A04, MB7-A06, MB7-A07
Medium	1	MB7-A03
Low	2	MB7-A02, MB7-A05
Total:	**7**	

Reported issues (by type):

Type	Amount	ID
Crash	2	MB7-A01, MB7-A04
Validation	2	MB7-A02, MB7-A03
Permissions	2	MB7-A06, MB7-A07
Status	1	MB7-A05

Conclusion:
The majority of the test cases were marked as ‘passed’, confirming high reliability of the API’s USER endpoints branch. Resources approached with valid HTTP requests were responding with correct headers and finalised payloads, which was especially evident among positive and negative cases, representing common scenarios based on nominal application usage.

However, one of the issues detected during most basic checks was marked as ‘critical’ and requires urgent action, posing an external threat to the system’s stability after deployment to the client. Two issues marked as ‘high’ could potentially bring similar harm to the application, but both are strictly connected to the admin-leveled accounts and require actions impossible for external or even internal users with lesser permissions. Other issues were mostly based around minor validation issues and response inconsistencies. All test cases marked with the ‘passed with issues’ status will be changed to ‘passed’ status after resolution of one of the cosmetic issues, potentially bringing total percentage of successful cases from 75% to 89%.