# Задача

* Изучить документацию Xsolla Promotions API.
* Выбрать соответствующий инструмент для тестирования API.
* Написать тест план.
* Протестировать некоторые функции, указанные в документации с использованием предоставленных ключей.
  + Проверить соответствие ожидаемых статус-кодов полученным.
  + Проверить соответствие ожидаемых http-ответов полученным.

# Выбор инструмента для написания тестов

При поиске инструментов для тестирования API и написания тестов встал выбор между Postman и Fiddler.

Fiddler позволяет отслеживать, менять и повторно использовать HTTP-запросы. С его помощью можно проводить дебаг веб-сайтов, а при помощи расширения APITest можно сильно расширить возможности Fiddler по проверке поведения web-API.

Postman же можно использовать для отправки POST-запросов к серверу и получения ответов. Он позволяет настроить заголовки и временные файлы. Имеет удобный интерфейс, интуитивно понятный пользователю. Также справочные сведения по Postman понятней, именно поэтому выбор пал на него.

# Тест план

Реальный результат вычисляется в соответствии с документацией по Xsolla Promotions API. Успешным является тест, обнаруживший несоответствие реального результата ожидаемому. Запросы GET представлены более подробно, чем другие, так как эксперементировать с версиями API, аутентификацией, merchant\_id, promotion\_id можно до бесконечности перебором потому что полностью оттестировать API чисто физически невозможно (в теории может быть «костыль», позволяющий для определённого набора данных получить ответ, который не был запланирован разработчиком).

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| --- | --- | --- | --- | --- | --- | --- |
| № теста | Запрос | Тело запроса | Ожидаемый результат | Реальный результат | Успешен | Комментарии |
| 1. | GET https://api.xsolla.com/merchant/v2/merchants/22174/promotions/12908 | - | Status 200 OK{"id": 12908,"project\_id": 15861,"technical\_name": "promotion\_5971c4f5bc970","label": null,"name": { "en": "name" },"description": { "en": "description" },"read\_only": false,"enabled": false} | Status 200 OK{"id": 12908,"project\_id": 15861,"technical\_name": "promotion\_5971c4f5bc970","label": null,"name": { "en": "name" },"description": { "en": "description" },"read\_only": false,"enabled": false} | - | Promotion с id 12908 был предварительно созданUsername: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v2 |
| 2. | GET https://api.xsolla.com/merchant/v2/merchants/22174/promotions/129012 | - | Status 404 Not Found{"http\_status\_code": 404,"message": "Not found","extended\_message": null,"request\_id": "aef8bea"} | Status 404 Not Found{"http\_status\_code": 404,"message": "Not found","extended\_message": null,"request\_id": "aef8bea"} | - | Promotion с id 129012 не был предварительно созданUsername: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v2 |
| 3. | GET https://api.xsolla.com/merchant/v2/merchants/22174/promotions/12908 | - | Status 401 Anauthorised | Status 401 Anauthorised | - | Promotion с id 12908 был предварительно созданAuth type: NoneMerchant\_id: 22174Версия API: v2 |
| 4. | GET https://api.xsolla.com/merchant/v2/merchants/22174/promotions/129012 | - | Status 401 Anauthorised | Status 401 Anauthorised | - | Promotion с id 129012 не был предварительно созданAuth type: NoneMerchant\_id: 22174Версия API: v2 |
| 5. | GET https://api.xsolla.com/merchant/v2/merchants/22175/promotions/12908 | - | Status 403 Forbidden | Status 403 Forbidden | - | Promotion с id 12908 был предварительно созданUsername: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22175Версия API: v2 |
| 6. | GET https://api.xsolla.com/merchant/v2/merchants/22175/promotions/12908 | - | Status 401 Anauthorised | Status 401 Anauthorised | - | Promotion с id 12908 был предварительно созданAuth type: NoneMerchant\_id: 22175Версия API: v2 |
| 7. | GET https://api.xsolla.com/merchant/v2/merchants/22175/promotions/129012 | - | Status 403 Forbidden | Status 403 Forbidden | - | Promotion с id 129012 не был предварительно созданUsername: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22175Версия API: v2 |
| 8. | GET https://api.xsolla.com/merchant/v2/merchants/22175/promotions/129012 | - | Status 401 Anauthorised | Status 401 Anauthorised | - | Promotion с id 129012 не был предварительно созданAuth type: NoneMerchant\_id: 22175Версия API: v2 |
| 9. | GET https://api.xsolla.com/merchant/v3/merchants/22174/promotions/12908 | - | Status 200 OK{"id": 12908,"project\_id": 15861,"technical\_name": "promotion\_5971c4f5bc970","label": null,"name": { "en": "name" },"description": { "en": "description" },"read\_only": false,"enabled": false} | Status 200 OK{"id": 12908,"project\_id": 15861,"technical\_name": "promotion\_5971c4f5bc970","label": null,"name": { "en": "name" },"description": { "en": "description" },"read\_only": false,"enabled": false} | - | Promotion с id 12908 был предварительно созданUsername: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v3 |
| 10. | GET https://api.xsolla.com/merchant/v3/merchants/22174/promotions/129012 | - | Status 404 Not Found{"http\_status\_code": 404,"message": "Not found","extended\_message": null,"request\_id": "aef8bea"} | Status 404 Not Found{"http\_status\_code": 404,"message": "Not found","extended\_message": null,"request\_id": "aef8bea"} | - | Promotion с id 129012 не был предварительно созданUsername: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v3 |
| 11. | GET https://api.xsolla.com/merchant/v3/merchants/22174/promotions/12908 | - | Status 401 Anauthorised | Status 401 Anauthorised | - | Promotion с id 12908 был предварительно созданAuth type: NoneMerchant\_id: 22174Версия API: v3 |
| 12. | GET https://api.xsolla.com/merchant/v3/merchants/22174/promotions/129012 | - | Status 401 Anauthorised | Status 401 Anauthorised | - | Promotion с id 129012 не был предварительно созданAuth type: NoneMerchant\_id: 22174Версия API: v3 |
| 13. | GET https://api.xsolla.com/merchant/v3/merchants/22175/promotions/12908 | - | Status 403 Forbidden | Status 403 Forbidden | - | Promotion с id 12908 был предварительно созданUsername: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22175Версия API: v3 |
| 14. | GET https://api.xsolla.com/merchant/v3/merchants/22175/promotions/12908 | - | Status 401 Anauthorised | Status 401 Anauthorised | - | Promotion с id 12908 был предварительно созданAuth type: NoneMerchant\_id: 22175Версия API: v3 |
| 15. | GET https://api.xsolla.com/merchant/v3/merchants/22175/promotions/129012 | - | Status 403 Forbidden | Status 403 Forbidden | - | Promotion с id 129012 не был предварительно созданUsername: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22175Версия API: v3 |
| 16. | GET https://api.xsolla.com/merchant/v3/merchants/22175/promotions/129012 | - | Status 401 Anauthorised | Status 401 Anauthorised | - | Promotion с id 129012 не был предварительно созданAuth type: NoneMerchant\_id: 22175Версия API: v3 |
| 17. | GEThttps://api.xsolla.com/merchant/v4/merchants/22174/promotions/12908 | - | Status 404 Not Found | Status 404 Not Found | - | Версия API: v4Четвёртой версии по-видимому нет ☹ |
| 18. | POST https://api.xsolla.com/merchant/v2/merchants/22174/promotions | {"technical\_name": "Sample Promotion","label": {"en": "50% SAVE"},"name": {"en": "60% PayPal Discount"},"description": {"en": "70% PayPal Discount Sample"},"project\_id": 15861} | 201 Created{"id": 13714} | 201 Created{"id": 13714} | - | Username: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v2 |
| 19. | GET https://api.xsolla.com/merchant/v2/merchants/22175/promotions/13714 | - | 200 OK{"id": 13714,"project\_id": 15861,"technical\_name": "Sample Promotion","label": {"en": "50% SAVE"},"name": {"en": "60% PayPal Discount"},"description": {"en": "70% PayPal Discount Sample"},"read\_only": false,"enabled": false} | 200 OK{"id": 13714,"project\_id": 15861,"technical\_name": "Sample Promotion","label": {"en": "50% SAVE"},"name": {"en": "60% PayPal Discount"},"description": {"en": "70% PayPal Discount Sample"},"read\_only": false,"enabled": false} | - | Promotion с id 13714 был предварительно создан в тесте 18.Username: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v2 |
| 20. | POST https://api.xsolla.com/merchant/v2/merchants/22174/promotions | {"technical\_name": "Sample Promotion","name": {"en": "60% PayPal Discount"},"description": {"en": "70% PayPal Discount Sample"},"project\_id": 15861} | 201 Created{"id": 13715} | 201 Created{"id": 13715} | - | Username: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v2Параметр label в body опущен |
| 21. | GET https://api.xsolla.com/merchant/v2/merchants/22175/promotions/13714 | - | 200 OK{"id": 13715,"project\_id": 15861,"technical\_name": "Sample Promotion","label": null,"name": {"en": "60% PayPal Discount"},"description": {"en": "70% PayPal Discount Sample"},"read\_only": false,"enabled": false} | 200 OK{"id": 13715,"project\_id": 15861,"technical\_name": "Sample Promotion","label": null,"name": {"en": "60% PayPal Discount"},"description": {"en": "70% PayPal Discount Sample"},"read\_only": false,"enabled": false} | - | Promotion с id 13714 был предварительно создан в тесте 20.Username: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v2 |
| 22. | POST https://api.xsolla.com/merchant/v2/merchants/22174/promotions | {"technical\_name": "Sample Promotion","name": {"en": "60% PayPal Discount"},"project\_id": 15861} | {"http\_status\_code": 422,"message": "An error has occurred while processing your request, make sure your data is valid","extended\_message": {"global\_errors": [],"property\_errors": {"description": ["description : array must not be empty\r"]}},"request\_id": "951110e"} | {"http\_status\_code": 422,"message": "An error has occurred while processing your request, make sure your data is valid","extended\_message": {"global\_errors": [],"property\_errors": {"description": ["description : array must not be empty\r"]}},"request\_id": "951110e"} | - | Username: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v2Параметры label и description в body опущены |
| 23. | POST https://api.xsolla.com/merchant/v2/merchants/22174/promotions | {} | {"http\_status\_code": 422,"message": "An error has occurred while processing your request, make sure your data is valid","extended\_message": {"global\_errors": [],"property\_errors": {"project\_id": ["This value should not be blank."],"technical\_name": ["This value should not be blank."],"name": ["name : array must not be empty\r"],"description": ["description : array must not be empty\r"]}},"request\_id": "a4692db"} | {"http\_status\_code": 422,"message": "An error has occurred while processing your request, make sure your data is valid","extended\_message": {"global\_errors": [],"property\_errors": {"project\_id": ["This value should not be blank."],"technical\_name": ["This value should not be blank."],"name": ["name : array must not be empty\r"],"description": ["description : array must not be empty\r"]}},"request\_id": "a4692db"} | - | Username: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v2В body отсутствуют параметры |
| 23. | POST https://api.xsolla.com/merchant/v2/merchants/22174/promotions | {"description": {"en": "70% PayPal Discount Sample"},"technical\_name": "Sample Promotion","label": {"en": "50% SAVE"},"project\_id": 15861 ,"name": {"en": "60% PayPal Discount"}} | 201 Created{"id": 13725} | 201 Created{"id": 13725} | - | Username: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v2В body параметры представлены в другом порядке (name в конце, description в начале) |
| 24. | GET https://api.xsolla.com/merchant/v2/merchants/22174/promotions/13725 | - | 200 OK{"id": 13725,"project\_id": 15861,"technical\_name": "Sample Promotion","label": {"en": "50% SAVE"},"name": {"en": "60% PayPal Discount"},"description": {"en": "70% PayPal Discount Sample"},"read\_only": false,"enabled": false} | 200 OK{"id": 13725,"project\_id": 15861,"technical\_name": "Sample Promotion","label": {"en": "50% SAVE"},"name": {"en": "60% PayPal Discount"},"description": {"en": "70% PayPal Discount Sample"},"read\_only": false,"enabled": false} | - | Promotion с id 13725 был предварительно создан в тесте 23.Username: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v2 |
| 25. | POST https://api.xsolla.com/merchant/v2/merchants/22174/promotions | {"technical\_name": "Sample Promotion","label": {"en": "50% SAVE"},"name": {"en": "60% PayPal Discount"},"description": {"en": "70% PayPal Discount Sample"},"name": {"en": "70% PayPal Скидка"},"project\_id": 15861} | 201 Created{"id": 13726} | 201 Created{"id": 13726} | - | Username: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v2В body параметры дублируются (2 “name”) |
| 26. | GET https://api.xsolla.com/merchant/v2/merchants/22174/promotions/13726 | - | 200 OK{"id": 13726,"project\_id": 15861,"technical\_name": "Sample Promotion","label": {"en": "50% SAVE"},"name": {"en": "70% PayPal Скидка"},"description": {"en": "70% PayPal Discount Sample"},"read\_only": false,"enabled": false} | 200 OK{"id": 13726,"project\_id": 15861,"technical\_name": "Sample Promotion","label": {"en": "50% SAVE"},"name": {"en": "70% PayPal Скидка"},"description": {"en": "70% PayPal Discount Sample"},"read\_only": false,"enabled": false} | - | Promotion с id 13726 был предварительно создан в тесте 25.Username: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v2В promotion13726 было записано одно значение “name” (последнее в body теста 25) |
| 27. | POST https://api.xsolla.com/merchant/v2/merchants/22174/promotions | {"technical\_name": "Sample Promotion","label": {"en": "50% SAVE"},"name": {"en": "60% PayPal Discount"},"description": {"en": "70% PayPal Discount Sample"},"label1": {"en": "10% SAVE"},"label2": {"en": "20% SAVE"},"project\_id": 15861} | {"http\_status\_code": 404,"message": "Not found","extended\_message": null,"request\_id": "363c114"} | {"http\_status\_code": 404,"message": "Not found","extended\_message": null,"request\_id": "363c114"} | - | Username: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v2В body добавлены лишние параметры “label1” и “label2” |
| 28. | PUT https://api.xsolla.com/merchant/v2/merchants/22174/promotions/13710 | {"technical\_name": "Sample Promotion","label": {"en": "100% SAVE"},"name": {"en": "100% PayPal Discount"},"description": {"en": "100% PayPal Discount Sample"},"project\_id": 15861} | 204 No Content | 204 No Content | - | Promotion\_id: 13710Username: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v2 |
| 29. | GEThttps://api.xsolla.com/merchant/v2/merchants/22174/promotions/13710 | - | 200 OK{"id": 13710,"project\_id": 15861,"technical\_name": "Sample Promotion","label": {"en": "100% SAVE"},"name": {"en": "100% PayPal Discount"},"description": {"en": "100% PayPal Discount Sample"},"read\_only": false,"enabled": false} | 200 OK{"id": 13710,"project\_id": 15861,"technical\_name": "Sample Promotion","label": {"en": "100% SAVE"},"name": {"en": "100% PayPal Discount"},"description": {"en": "100% PayPal Discount Sample"},"read\_only": false,"enabled": false} | - | Promotion\_id: 13710Username: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v2 |
| 30. | PUT https://api.xsolla.com/merchant/v2/merchants/22174/promotions/13710 | - | {"http\_status\_code": 422,"message": "An error has occurred while processing your request, make sure your data is valid","extended\_message": {"global\_errors": [],"property\_errors": {"project\_id": ["This value should not be blank."],"technical\_name": ["This value should not be blank."],"name": ["name : array must not be empty\r"],"description": ["description : array must not be empty\r"]}},"request\_id": "633af84"} | {"http\_status\_code": 422,"message": "An error has occurred while processing your request, make sure your data is valid","extended\_message": {"global\_errors": [],"property\_errors": {"project\_id": ["This value should not be blank."],"technical\_name": ["This value should not be blank."],"name": ["name : array must not be empty\r"],"description": ["description : array must not be empty\r"]}},"request\_id": "633af84"} | - | Promotion\_id: 13710Username: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v2Body пуст |
| 31. | PUThttps://api.xsolla.com/merchant/v2/merchants/22174/promotions/19999 | {"technical\_name": "Sample Promotion","label": {"en": "100% SAVE"},"name": {"en": "100% PayPal Discount"},"description": {"en": "100% PayPal Discount Sample"},"project\_id": 15861} | {"http\_status\_code": 404,"message": "Not found","extended\_message": null,"request\_id": "168c747"} | {"http\_status\_code": 404,"message": "Not found","extended\_message": null,"request\_id": "168c747"} | - | Promotion\_id: 19999 (несуществующий id)Username: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v2 |
| 32. | PUT https://api.xsolla.com/merchant/v2/merchants/22174/promotions/13710 | {"technical\_name": "Sample Promotion","label": {"en": "100% SAVE"},"name": {"en": "100% PayPal Discount"}} | {"http\_status\_code": 422,"message": "An error has occurred while processing your request, make sure your data is valid","extended\_message": {"global\_errors": [],"property\_errors": {"project\_id": ["This value should not be blank."],"description": ["description : array must not be empty\r"]}},"request\_id": "2e233ec"} | {"http\_status\_code": 422,"message": "An error has occurred while processing your request, make sure your data is valid","extended\_message": {"global\_errors": [],"property\_errors": {"project\_id": ["This value should not be blank."],"description": ["description : array must not be empty\r"]}},"request\_id": "2e233ec"} | - | Promotion\_id: 13710Username: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v2Body содержит лишь часть переменных |
| 33. | PUT https://api.xsolla.com/merchant/v2/merchants/22174/promotions/13710 | {"technical\_name": "Sample Promotion","label": {"en": "100% SAVE"},"name": {"en": "100% PayPal Discount"},"description": {"en": "100% PayPal Discount Sample"},"description": {"en": "80% PayPal Discount Sample"},"project\_id": 15861} | 204 No Content | 204 No Content | - | Promotion\_id: 13710Username: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v2В body параметры дублируются (2 “description”) |
| 34. | GEThttps://api.xsolla.com/merchant/v2/merchants/22174/promotions/13710 | - | 200 OK{"id": 13710,"project\_id": 15861,"technical\_name": "Sample Promotion","label": {"en": "100% SAVE"},"name": {"en": "100% PayPal Discount"},"description": {"en": "80% PayPal Discount Sample"},"read\_only": false,"enabled": false} | 200 OK{"id": 13710,"project\_id": 15861,"technical\_name": "Sample Promotion","label": {"en": "100% SAVE"},"name": {"en": "100% PayPal Discount"},"description": {"en": "80% PayPal Discount Sample"},"read\_only": false,"enabled": false} | - | Username: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v2В promotion 13710 было записано одно значение “description ” (последнее в body теста 33) |
| 35. | PUT https://api.xsolla.com/merchant/v2/merchants/22174/promotions/13710 | {"technical\_name": "Sample Promotion","label": {"en": "100% SAVE"},"name": {"en": "100% PayPal Discount"},"description": {"en": "100% PayPal Discount Sample"},"description1": {"en": "80% PayPal Discount Sample"},"project\_id": 15861} | {"http\_status\_code": 422,"message": "An error has occurred while processing your request, make sure your data is valid","extended\_message": {"global\_errors": ["This form should not contain extra fields: \"description1\"."],"property\_errors": []},"request\_id": "9f4ee01"} | {"http\_status\_code": 422,"message": "An error has occurred while processing your request, make sure your data is valid","extended\_message": {"global\_errors": ["This form should not contain extra fields: \"description1\"."],"property\_errors": []},"request\_id": "9f4ee01"} | - | Promotion\_id: 13710Username: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v2В body добавлены лишний параметр “description1” |
| 36. | PUT https://api.xsolla.com/merchant/v2/merchants/22174/promotions/13710 | {"description": {"en": "100% PayPal Discount Sample"},"project\_id": 15861,"technical\_name": "Sample Promotion","label": {"en": "100% SAVE"},"name": {"en": "100% PayPal Discount"}} | 204 No Content | 204 No Content | - | Promotion\_id: 13710Username: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v2В body параметры указаны в нестандартном порядке |
| 37. | GEThttps://api.xsolla.com/merchant/v2/merchants/22174/promotions/13710 | - | 200 OK{"id": 13710,"project\_id": 15861,"technical\_name": "Sample Promotion","label": {"en": "100% SAVE"},"name": {"en": "100% PayPal Discount"},"description": {"en": "100% PayPal Discount Sample"},"read\_only": false,"enabled": false} | 200 OK{"id": 13710,"project\_id": 15861,"technical\_name": "Sample Promotion","label": {"en": "100% SAVE"},"name": {"en": "100% PayPal Discount"},"description": {"en": "100% PayPal Discount Sample"},"read\_only": false,"enabled": false } | - | Promotion\_id: 13710Username: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v2 |
| 38. | GET https://api.xsolla.com/merchant/v2/merchants/22174/promotions/13710/review | - | 200 OK[{"component": "rewards","message": "You didn't select any reward"},{"component": "periods","message": "The time intervals and the subject of the promotion conflict with the promotion Third promotion. Please change the time intervals or the subject."},{"component": "periods","message": "The time intervals and the subject of the promotion conflict with the promotion Second promotion. Please change the time intervals or the subject."}] | 200 OK[{"component": "rewards","message": "You didn't select any reward"},{"component": "periods","message": "The time intervals and the subject of the promotion conflict with the promotion Third promotion. Please change the time intervals or the subject."},{"component": "periods","message": "The time intervals and the subject of the promotion conflict with the promotion Second promotion. Please change the time intervals or the subject."}] | - | Promotion\_id: 13710Username: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v2 |
| 39. | GET https://api.xsolla.com/merchant/v2/merchants/22174/promotions/19999/review | - | {"http\_status\_code": 404,"message": "Not found","extended\_message": null,"request\_id": "8edc146"} | {"http\_status\_code": 404,"message": "Not found","extended\_message": null,"request\_id": "8edc146"} | - | Promotion\_id: 19999 (несуществующий id)Username: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v2 |
| 40. | PUT <https://api.xsolla.com/merchant/v2/merchants/22174/promotions/12908/toggle> | - | 204 No Content | 204 No Content | - | Promotion\_id: 12908Username: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v2 |
| 41. | GET https://api.xsolla.com/merchant/v2/merchants/22174/promotions/12908 | - | {"id": 12908,"project\_id": 15861,"technical\_name": "promotion\_5971c4f5bc970","label": null,"name": {"en": "name"},"description": {"en": "description"},"read\_only": true,"enabled": true} | {"id": 12908,"project\_id": 15861,"technical\_name": "promotion\_5971c4f5bc970","label": null,"name": {"en": "name"},"description": {"en": "description"},"read\_only": true,"enabled": true} | - | Promotion\_id: 12908Username: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v2“enabled”=true |
| 42. | PUT <https://api.xsolla.com/merchant/v2/merchants/22174/promotions/19999/toggle> | - | {"http\_status\_code": 404,"message": "Not found","extended\_message": null,"request\_id": "ed0c000"} | {"http\_status\_code": 404,"message": "Not found","extended\_message": null,"request\_id": "ed0c000"} | - | Promotion\_id: 19999 (несуществующий id)Username: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v2 |
| 43. | PUT <https://api.xsolla.com/merchant/v2/merchants/22174/promotions/12908/toggle> | {} | 204 No Content | 204 No Content | - | Promotion\_id: 12908Username: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v2 |
| 44. | GET https://api.xsolla.com/merchant/v2/merchants/22174/promotions/12908 | - | {"id": 12908,"project\_id": 15861,"technical\_name": "promotion\_5971c4f5bc970","label": null,"name": {"en": "name"},"description": {"en": "description"},"read\_only": true,"enabled": false} | {"id": 12908,"project\_id": 15861,"technical\_name": "promotion\_5971c4f5bc970","label": null,"name": {"en": "name"},"description": {"en": "description"},"read\_only": true,"enabled": false} | - | Promotion\_id: 12908Username: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v2 |
| 45. | PUT <https://api.xsolla.com/merchant/v2/merchants/22174/promotions/12908/toggle> | {"enabled": true } | 204 No Content | 204 No Content | - | Promotion\_id: 12908Username: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v2 |
| 46. | GET https://api.xsolla.com/merchant/v2/merchants/22174/promotions/12908 | - | {"id": 12908,"project\_id": 15861,"technical\_name": "promotion\_5971c4f5bc970","label": null,"name": {"en": "name"},"description": {"en": "description"},"read\_only": true,"enabled": true} | {"id": 12908,"project\_id": 15861,"technical\_name": "promotion\_5971c4f5bc970","label": null,"name": {"en": "name"},"description": {"en": "description"},"read\_only": true,"enabled": true} | - | Promotion\_id: 12908Username: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v2 |
| 47. | PUT <https://api.xsolla.com/merchant/v2/merchants/22174/promotions/12908/toggle> | {"id": 12908,"project\_id": 15861,"enabled": true} | 204 No Content | 204 No Content | - | Promotion\_id: 12908Username: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v2 |
| 48. | GET https://api.xsolla.com/merchant/v2/merchants/22174/promotions/12908 | - | {"id": 12908,"project\_id": 15861,"technical\_name": "promotion\_5971c4f5bc970","label": null,"name": {"en": "name"},"description": {"en": "description"},"read\_only": true,"enabled": false} | {"id": 12908,"project\_id": 15861,"technical\_name": "promotion\_5971c4f5bc970","label": null,"name": {"en": "name"},"description": {"en": "description"},"read\_only": true,"enabled": false} | - | Promotion\_id: 12908Username: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v2 |
| 49. | PUT <https://api.xsolla.com/merchant/v2/merchants/22174/promotions/12908/toggle> | {"enabled": 123} | 204 No Content | 204 No Content | - | Promotion\_id: 12908Username: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v2 |
| 50. | GET https://api.xsolla.com/merchant/v2/merchants/22174/promotions/12908 | - | {"id": 12908,"project\_id": 15861,"technical\_name": "promotion\_5971c4f5bc970","label": null,"name": {"en": "name"},"description": {"en": "description"},"read\_only": true,"enabled": true} | {"id": 12908,"project\_id": 15861,"technical\_name": "promotion\_5971c4f5bc970","label": null,"name": {"en": "name"},"description": {"en": "description"},"read\_only": true,"enabled": true} | - | Promotion\_id: 12908Username: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v2 |
| 51. | DELETE https://api.xsolla.com/merchant/v2/merchants/22174/promotions/13720 | - | 204 No Content | 204 No Content | - | Promotion\_id: 13720Username: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v2 |
| 52. | GET https://api.xsolla.com/merchant/v2/merchants/22174/promotions/13720 | - | {"http\_status\_code": 404,"message": "Not found","extended\_message": null,"request\_id": "0d97114"} | {"http\_status\_code": 404,"message": "Not found","extended\_message": null,"request\_id": "0d97114"} | - | Promotion\_id: 13720 (deleted)Username: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v2 |
| 53. | GET https://api.xsolla.com/merchant/v1/merchants/22174/promotions/13720 | - | {"http\_status\_code": 404,"message": "Not found","extended\_message": null,"request\_id": "a70eeb1"} | {"http\_status\_code": 404,"message": "Not found","extended\_message": null,"request\_id": "a70eeb1"} | - | Promotion\_id: 13720 (deleted)Username: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v1 |
| 54. | DELETE https://api.xsolla.com/merchant/v2/merchants/22174/promotions/19999 | - | {"http\_status\_code": 404,"message": "Not found","extended\_message": null,"request\_id": "9d427c8"} | {"http\_status\_code": 404,"message": "Not found","extended\_message": null,"request\_id": "9d427c8"} | - | Promotion\_id: 19999 (несуществующий id)Username: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v2 |
| 55. | DELETE https://api.xsolla.com/merchant/v2/merchants/22174/promotions/13721 | - | Status 401 Anauthorised | Status 401 Anauthorised | - | Promotion\_id: 13721Auth type: NoneMerchant\_id: 22174Версия API: v2 |
| 56. | GET https://api.xsolla.com/merchant/v2/merchants/22174/promotions | - | [{"id": 12908,"project": {"id": 15861,"localized\_name": "Demo Project for Universal Protocol"},"technical\_name": "promotion\_5971c4f5bc970","read\_only": true,"enabled": true,"is\_infinite": false,"datetime": {"from": "2021-10-31T20:28:30+00:00","to": "2021-10-31T20:28:31+00:00"},"is\_active": false},{"id": 10475,"project": {"id": 15861,"localized\_name": "Demo Project for Universal Protocol"},"technical\_name": "First promotion","read\_only": true,"enabled": true,"is\_infinite": false,"datetime": {"from": "2020-10-14T05:00:00+00:00","to": "2020-10-15T04:00:00+00:00"},"is\_active": false},{"id": 10571,"project": {"id": 15861,"localized\_name": "Demo Project for Universal Protocol"},"technical\_name": "New Promotion 1","read\_only": false,"enabled": true,"is\_infinite": false,"datetime": {"from": "2020-10-14T00:00:00+04:00","to": "2020-10-15T00:00:00+04:00"},"is\_active": false},…] | [{"id": 12908,"project": {"id": 15861,"localized\_name": "Demo Project for Universal Protocol"},"technical\_name": "promotion\_5971c4f5bc970","read\_only": true,"enabled": true,"is\_infinite": false,"datetime": {"from": "2021-10-31T20:28:30+00:00","to": "2021-10-31T20:28:31+00:00"},"is\_active": false},{"id": 10475,"project": {"id": 15861,"localized\_name": "Demo Project for Universal Protocol"},"technical\_name": "First promotion","read\_only": true,"enabled": true,"is\_infinite": false,"datetime": {"from": "2020-10-14T05:00:00+00:00","to": "2020-10-15T04:00:00+00:00"},"is\_active": false},{"id": 10571,"project": {"id": 15861,"localized\_name": "Demo Project for Universal Protocol"},"technical\_name": "New Promotion 1","read\_only": false,"enabled": true,"is\_infinite": false,"datetime": {"from": "2020-10-14T00:00:00+04:00","to": "2020-10-15T00:00:00+04:00"},"is\_active": false},…] | - | Username: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v2 |
| 56. | GET https://api.xsolla.com/merchant/v1/merchants/22174/promotions | - | [{"id": 12908,"project": {"id": 15861,"localized\_name": "Demo Project for Universal Protocol"},"technical\_name": "promotion\_5971c4f5bc970","read\_only": true,"enabled": true,"is\_infinite": false,"datetime": {"from": "2021-10-31T20:28:30+00:00","to": "2021-10-31T20:28:31+00:00"},"is\_active": false},{"id": 10475,"project": {"id": 15861,"localized\_name": "Demo Project for Universal Protocol"},"technical\_name": "First promotion","read\_only": true,"enabled": true,"is\_infinite": false,"datetime": {"from": "2020-10-14T05:00:00+00:00","to": "2020-10-15T04:00:00+00:00"},"is\_active": false},{"id": 10571,"project": {"id": 15861,"localized\_name": "Demo Project for Universal Protocol"},"technical\_name": "New Promotion 1","read\_only": false,"enabled": true,"is\_infinite": false,"datetime": {"from": "2020-10-14T00:00:00+04:00","to": "2020-10-15T00:00:00+04:00"},"is\_active": false},…] | [{"id": 12908,"project": {"id": 15861,"localized\_name": "Demo Project for Universal Protocol"},"technical\_name": "promotion\_5971c4f5bc970","read\_only": true,"enabled": true,"is\_infinite": false,"datetime": {"from": "2021-10-31T20:28:30+00:00","to": "2021-10-31T20:28:31+00:00"},"is\_active": false},{"id": 10475,"project": {"id": 15861,"localized\_name": "Demo Project for Universal Protocol"},"technical\_name": "First promotion","read\_only": true,"enabled": true,"is\_infinite": false,"datetime": {"from": "2020-10-14T05:00:00+00:00","to": "2020-10-15T04:00:00+00:00"},"is\_active": false},{"id": 10571,"project": {"id": 15861,"localized\_name": "Demo Project for Universal Protocol"},"technical\_name": "New Promotion 1","read\_only": false,"enabled": true,"is\_infinite": false,"datetime": {"from": "2020-10-14T00:00:00+04:00","to": "2020-10-15T00:00:00+04:00"},"is\_active": false},…] | - | Username: 22174Password: O8bS0aZNZbKuiONwAuth type: Basic AuthMerchant\_id: 22174Версия API: v1 |
| 57. | GET https://api.xsolla.com/merchant/v2/merchants/22174/promotions | - | Status 401 Anauthorised | Status 401 Anauthorised | - | Auth type: NoneMerchant\_id: 22174Версия API: v2 |

К сожалению, я не владею SQL-инъекциями, однако возможно, что данный вид тестирования сработает.4. Замечания и пожелания

1. Третья версия API не упомянута в документации, а она есть! На тестах реагирует так же, как 1ая и 2ая.
2. В документации к Promotions не указаны required параметры, обязательные для передачи в body запроса. Например, в запросе **POST https://api.xsolla.com/merchant/v2/merchants/{merchant\_id}/promotions** можно создатьpromotion без label, но нельзя создать без description, что не очень логично. По-моему, это стоит описать в документации.