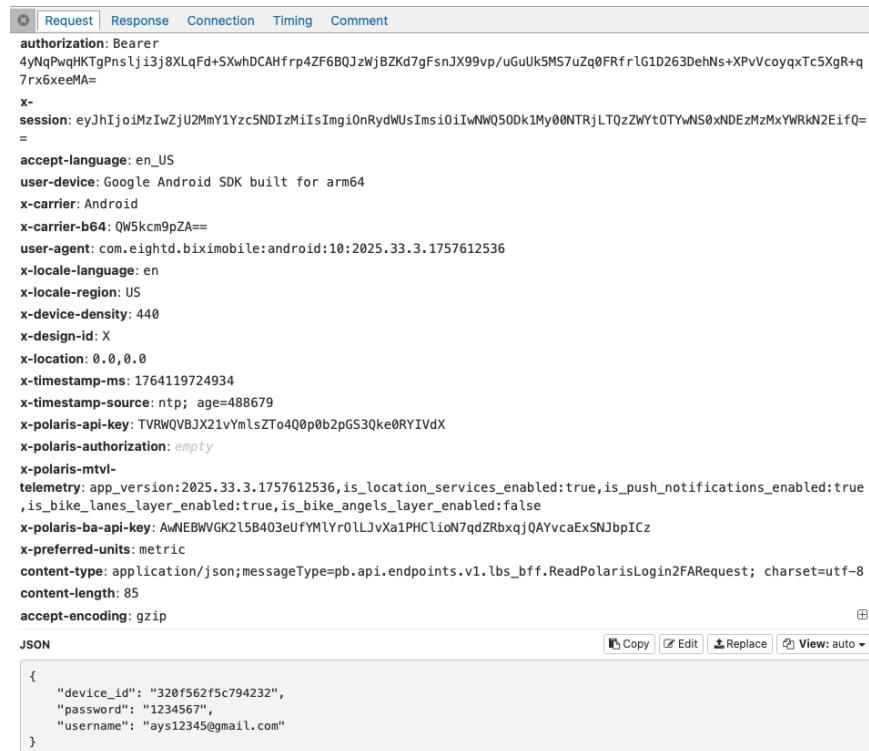


Bixi:

Logging:

The app did not encrypt the username and password in JSON.

PII: username, password



Request Response Connection Timing Comment

```
authorization: Bearer 4yNpWqHKTgPnslji3j8XLqFd+SXwhDCAHfrp4ZF6BQJzWjBZKd7gFsnJX99vp/uGuUk5MS7uZq0FRfrlG1D263DehNs+XPvVcoyqxTc5XgR+q7rx6xeeMA=
X-
session: eyJhbGciOiMzIwZjU2MmY1Yzc5NDIzMjIiSImgiOnRydWUsImsiOiIwNWQ50Dk1My00NTRjLTQzZWYtOTYwNS0xNDEzMzMxYWlkN2EifQ=
accept-language: en_US
user-device: Google Android SDK built for arm64
x-carrier: Android
x-carrier-b64: QW5kcnpZA==
user-agent: com.eightd.biximobile:android:10:2025.33.3.1757612536
x-locale-language: en
x-locale-region: US
x-device-density: 440
x-design-id: X
x-location: 0,0,0,0
x-timestamp-ms: 1764119724934
x-timestamp-source: ntp; age=488679
x-polaris-api-key: TVRWQVBXZ1vYmlsZTo400p0b2pGS30ke0RYIVdX
x-polaris-authorization: empty
x-polaris-mtv1-
telemetry: app_version:2025.33.3.1757612536,is_location_services_enabled:true,is_push_notifications_enabled:true
,is_bike_lanes_layer_enabled:true,is_bike_angles_layer_enabled:false
x-polaris-ba-api-key: AwNEBWVGK2l5B403eUfYMLYr0lLJvXa1PHClioN7qdZRbxqjQAYvcaExSNJbpICz
x-preferred-units: metric
content-type: application/json;messageType=pb.api.endpoints.v1.lbs_bff.ReadPolarisLogin2FARequest; charset=utf-8
content-length: 85
accept-encoding: gzip
```

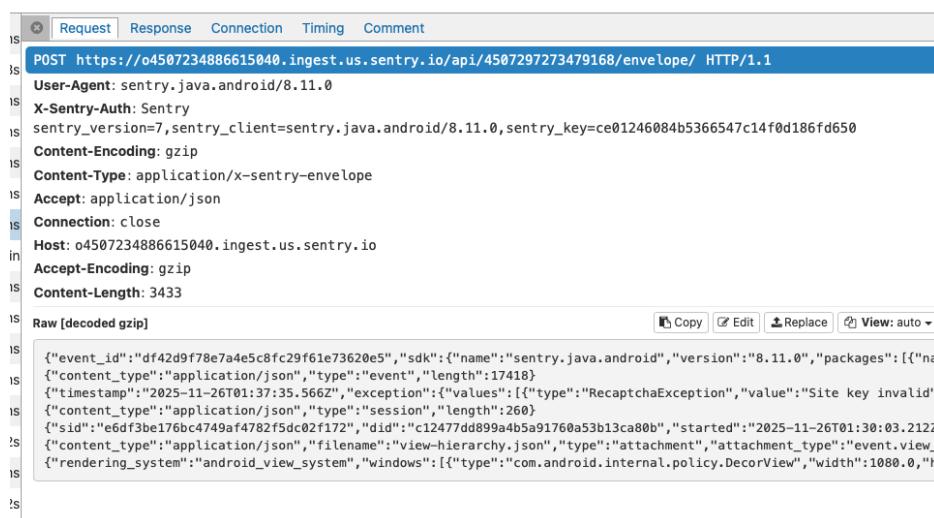
JSON

```
{ "device_id": "320f562f5c794232", "password": "1234567", "username": "ays12345@gmail.com" }
```

Copy Edit Replace View: auto □

After the login request made, A separate request later was sent to Sentry. (3rd-party error and crash analytics service).

The app sends:exception logs, stack traces, view hierarchy, device model, OS version, timestamps, event IDs



Request Response Connection Timing Comment

```
POST https://o4507234886615040.ingest.us.sentry.io/api/4507297273479168/envelope/ HTTP/1.1
User-Agent: sentry.java.android/8.11.0
X-Sentry-Auth: Sentry
sentry_version=7,sentry_client=sentry.java.android/8.11.0,sentry_key=ce01246084b5366547c14f0d186fd650
Content-Encoding: gzip
Content-Type: application/x-sentry-envelope
Accept: application/json
Connection: close
Host: o4507234886615040.ingest.us.sentry.io
Accept-Encoding: gzip
Content-Length: 3433
```

Raw [decoded gzip]

```
{"event_id": "df42d9f78e7a4e5c8fc29f61e73620e5", "sdk": {"name": "sentry.java.android", "version": "8.11.0", "packages": [{"name": "com.google.gson", "version": "2.9.0"}]}, "content_type": "application/json", "type": "event", "length": 17418}, {"timestamp": "2025-11-26T01:37:35.566Z", "exception": {"values": [{"type": "RecaptchaException", "value": "Site key invalid"}]}, "content_type": "application/json", "type": "session", "length": 260}, {"sid": "e6df3be176bc4749af4782f5dc02f172", "ddid": "c12477dd899a4b5a91760a53b13ca80b", "started": "2025-11-26T01:30:03.212Z", "content_type": "application/json", "filename": "view-hierarchy.json", "type": "attachment", "attachment_type": "event.view_hierarchy", "rendering_system": "android_view_system", "windows": [{"type": "com.android.internal.policy.DecorView", "width": 1080, "height": 1920}]}]
```

More third parties:

- Google Firebase(send App version & configuration version)
- Google Recaptcha (payload is Binary protobuf — encrypted)
- Mapbox (send App version, Location permission level (“always allowed”), Whether location is enabled, Device info)
- Sentry

Edit profile:

PII exposure in the response payload: email, names, phone, tax region, billing, subscriptions...

```
PUT https://layer.bicyclessharing.net/v1/mwl/member HTTP/2.0
api-key: TVRWQVBXJX21vYmlsZTo4Q0p0b2pGS3Qke0RYIVdX
authorization: 0d2b625f-12c8-44fd-b1c4-fa1e638a0fd7
accept: application/json
cache-control: no-cache
accept-language: en-US
user-agent: bixi/2025.33.3.1757612536(1757612536) Dalvik/2.1.0 (Linux; U; Ar
10; Android SDK built for arm64 Build/OSR1.211112.011)
content-type: application/json; charset=UTF-8
content-length: 332
accept-encoding: gzip
2s JSON
2s { "birthday": { "day": 8, "month": 7, "year": 2002 }, "email": "1234556@gmail.com", "emailCorrespondence": true, "firstName": "AI", "gender": "f", "lastName": "YUSHAN", "phoneNumber": "+1 514-578-1234", "shippingAddress": { }}
```

When opening ride history:

All the info in the response payload is not encrypted, include PII:

- number of previous rides
- Which stations I used
- Precise GPS coordinates of start and end
- Times, durations, distances, and costs
- Which specific bikes I rode

Communato:

Logging:

The app did not encrypt the username and password in JSON.

PII: username, password

A screenshot of the mitmproxy browser extension interface. The left sidebar shows a list of network requests from the application. The main pane displays the raw request and response data. The response pane shows a JSON object containing sensitive information. A red box highlights the 'URL-encoded' section of the response, which contains the unencrypted PII.

Path	Method	Status	Size	Time
https://play.googleapis.com/log/batch	POST	200	2.0kb	89ms
https://oauthaccountmanager.googleapis.com/v1/..._POST	200	709b	75ms	
https://cmtoken.googleapis.com/register	POST	200	478b	211ms
https://play.googleapis.com/log/batch	POST	200	2.0kb	63ms
https://oauthaccountmanager.googleapis.com/v1/..._POST	200	708b	105ms	
https://cmtoken.googleapis.com/register	POST	200	478b	147ms
https://play.googleapis.com/log/batch	POST	200	2.0kb	64ms
https://play.googleapis.com/log/batch	POST	200	14kb	57ms
https://foidentityprovider.reservauto.net/cdn-cgi/..._POST	200	15.5kb	55ms	
https://challenges.cloudflare.com/cdn-cgi/challeng..._POST	200	159.3kb	132ms	
https://attester.gateway.icloud.com/token-request?..._POST	200	515b	66ms	
https://challenges.cloudflare.com/cdn-cgi/challeng..._POST	200	58.3kb	140ms	
https://firebaselogging-pa.googleapis.com/v1/relo..._POST	200	664b	2s	
https://challenges.cloudflare.com/cdn-cgi/challeng..._POST	200	44.3kb	276ms	
https://foidentityprovider.reservauto.net/cdn-cgi/..._POST	200	8.7kb	134ms	
https://foidentityprovider.reservauto.net/Login?Re..._POST	200	7.2kb	111ms	
https://app-analytics-services.com/a	POST	204	1.3kb	55ms
https://foidentityprovider.reservauto.net/Login?Re..._POST	302	209b	173ms	
https://app-analytics-services.com/a	POST	204	543b	52ms
https://foidentityprovider.reservauto.net/Login?Pss..._POST	200	240b	207ms	
https://foidentityprovider.reservauto.net/Login?Cus..._POST	302	225b	93ms	

Request Headers:

```
priority: u=0, i
accept-encoding: gzip, deflate, br
accept-language: zh-CN, zh-Hans;q=0.9
sec-fetch-mode: navigate
origin: null
user-agent: Mozilla/5.0 (iPhone; CPU iPhone OS 18_7 like Mac OS X; communato; 2.10.1+2025100910) AppleWebKit/605.1.15 (KHTML, like Gecko)
Mobile/15E148
content-length: 248
```

Response Headers:

```
Content-Type: application/json; charset=UTF-8
Date: Mon, 12 Jun 2023 10:23:45 GMT
Content-Length: 1000
Connection: keep-alive
Set-Cookie: FID=10000000000000000000000000000000; Path=/; Secure; HttpOnly
Set-Cookie: _RequestVerificationToken=CfD38ANUsObZw6pttfsFfd1a6Zs7wgRwkGhNz1Mc05D0uSMbx_1IY1o880sUwoPSX5szge1wFgSz0w5cLz9upy_sFa16ccT0v0wE3Guop_jaI_zw6jn0BFjKvxEc1GePAB4EnGttxyLlqc-4r0Mlyw
ResetPassword: 'false'
Username: '645723'
Password: [REDACTED]
```

URL-encoded:

```
_RequestVerificationToken: CfD38ANUsObZw6pttfsFfd1a6Zs7wgRwkGhNz1Mc05D0uSMbx_1IY1o880sUwoPSX5szge1wFgSz0w5cLz9upy_sFa16ccT0v0wE3Guop_jaI_zw6jn0BFjKvxEc1GePAB4EnGttxyLlqc-4r0Mlyw
ResetPassword: 'false'
Username: '645723'
Password: [REDACTED]
```

Apps/Domains Contacted:

- Google Analytics (sent device model, OS version, app version, session ID)
- Google Notifications(polling suggests background/ language sync)

When opening profile: the data is not encrypted in the response payload:

PII exposure: email, names, phone, home address, emergency contacts....