### Request with expiry

|  | Quiesce the Application | | |
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|  | ps -ef|grep -vE "firefox|browse|brave|root|NX|grep|\?"|grep -E "node|npm|tsx|mjs|ipc">fcrt/2.1-cli-om/2.1.2-req-expiry/logs/ps-ef.log | | |
| **Pass**: Logfile is empty; |  | Pass  Fail |
| **Fail**: Logfile contains output; |

|  | Clear the Database | | |
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|  | delete from blofin.orders;  delete from blofin.request;  select \* from blofin.vw\_api\_requests order by clientOrderId;  select (select count(\*) from request) as request,  (select count(\*) from orders) as orders,  (select count(\*) from vw\_requests) as vw\_requests,  (select count(\*) from vw\_orders) as vw\_orders,  (select count(\*) from vw\_api\_requests) as vw\_api\_requests; | | |
| **Pass**: Database tables above are empty; |  | Pass  Fail |
| **Fail**: Database tables above remain loaded with data; |

|  | Create Baseline Workbook | | |
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|  | Save workbook baseline.xlsx (right) to ./2.1.2-req-expiry/Documents/fcrt-baseline.xlsx; | |  |
|  | npx tsx app > fcrt/2.1-cli-om/2.1.2-req-expiry/logs/app-baseline.log | | |
| **Pass**: Last two ?before=**[#]** are equal; | $ npx tsx app > fcrt/2.1-cli-om/2.1.2-req-expiry/logs/app-baseline.log  /api/v1/trade/orders-history?before=1000110431834  /api/v1/trade/orders-history?before=1000110431834  ^C  $ | Pass  Fail |
| **Fail**: Console error or failure to match; |
|  | Stop the application ( ctrl+c); revew logfile for errors; an error-free example is provided in the app-baseline.docx (right); | |  |
|  | select \* from blofin.request order by request;  select \* from blofin.orders order by request;  select \* from blofin.vw\_requests order by request;  select \* from blofin.vw\_orders order by request;  select \* from blofin.vw\_api\_requests order by clientOrderId;  select (select count(\*) from request) as request,  (select count(\*) from orders) as orders,  (select count(\*) from vw\_requests) as vw\_requests,  (select count(\*) from vw\_orders) as vw\_orders,  (select count(\*) from vw\_api\_requests) as vw\_api\_requests; | | |
| **Pass**: All query results contain data; |  | Pass  Fail |
| **Fail**: Query results are empty (zero rows); |
|  | Copy each table/view and paste into the fcrt-baseline.xlsx workbook; Verrify counts against the db counts pulled from the prior instruction; | | |
| **Pass**: All sheets contain exactly the same # of rows; |  | Pass  Fail |
| **Fail**: Not all sheets have exactly the same # of rows; |

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|  | Place CLI Request | | | |
|  | Configure the requests.ts file:   * 1. symbol shall be in trade\_status ‘**Enabled’**;   2. ensure values *position*and *action* are congruent: **[short:sell]** or **[long:buy]**;   3. set out-of-market price at least a minimum of 10%;   4. set *size* and *leverage* values not to exceed margin requirements;   5. set the expiry time to a value no more than 5m;   6. save the file; | | //-- Test 1: request w/o expiry; w/o tpsl  export const req\_fcrt\_1a: Partial<IRequest> = {  symbol: "XRP-USDT",  margin\_mode: "cross",  position: "short",  action: "sell",  order\_type: "limit",  price: 3.5,  size: 100,  leverage: 50,  expiry\_time: setExpiry("5m"),  }; | |
|  | npx tsx fcrt/2.1-cli-om/2.1.2-req-expiry/test/fcrt-cs-1a.ts > fcrt/2.1-cli-om/2.1.2-req-expiry/logs/fcrt-cs-1a.log 1a | | | |
| **Pass**: Logfile reports ‘*Request submitted*’; | Test 1a: Request submitted, check db for results. <Buffer 00 63 18 e0 ae 39> | | Pass  Fail |
| **Fail**: Logfile or console reports error(s); |

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|  | Create Response Workbook | | |
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|  | Save workbook baseline.xlsx (right) to ./2.1.2-req-expiry/Documents/fcrt-cs-1a.xlsx; | |  |
|  | select \* from blofin.request order by request;  select \* from blofin.orders order by request;  select \* from blofin.vw\_requests order by request;  select \* from blofin.vw\_orders order by request;  select \* from blofin.vw\_api\_requests order by clientOrderId;  select (select count(\*) from request) as request,  (select count(\*) from orders) as orders,  (select count(\*) from vw\_requests) as vw\_requests,  (select count(\*) from vw\_orders) as vw\_orders,  (select count(\*) from vw\_api\_requests) as vw\_api\_requests; | | |
| **Pass**: All query results contain data; |  | Pass  Fail |
| **Fail**: Query results are empty; |
|  | Copy each table/view and paste into the fcrt workbook; save the workbook; | | |
| **Pass**: %*request%* tables/views shall have +1 row; |  | Pass  Fail |
| **Fail**: All sheets have exactly the same # of rows; |

|  | Run Comparison and Create Diff Report | | |
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|  | comp fcrt-cs-1a fcrt-baseline | | |
| **Pass**: %*request%* tables/views show 3 new inserts; |  | Pass  Fail |
| **Fail**: No difference; insert data mismatch; |
|  | Save the diff file as fcrt-cs-1a.diff; | | |

|  | Process Request With Elapsed Expiry | | |
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|  | Save workbook baseline.xlsx (right) to ./2.1.2-req-expiry/Documents/fcrt-cs-1b.xlsx;  **\*\*\* Pause** for the request expiry time to elapse before proceeding. | |  |
|  | npx tsx app > fcrt/2.1-cli-om/2.1.2-req-expiry/logs/app-fcrt-cs-1a.log | | |
| **Pass**: Last two ?before=**[#]** are equal; | $ npx tsx app > fcrt/2.1-cli-om/2.1.2-req-expiry/logs/app-fcrt-cs-1a.log  /api/v1/trade/orders-history?before=1000110488215  /api/v1/trade/orders-history?before=1000110488215  ^C  $ | Pass  Fail |
| **Fail**: Console error or failure to match; |
|  | Stop the application ( ctrl+c ); review logfile for errors; | |  |
|  | select \* from blofin.request order by request;  select \* from blofin.orders order by request;  select \* from blofin.vw\_requests order by request;  select \* from blofin.vw\_orders order by request;  select \* from blofin.vw\_api\_requests order by clientOrderId;  select (select count(\*) from request) as request,  (select count(\*) from orders) as orders,  (select count(\*) from vw\_requests) as vw\_requests,  (select count(\*) from vw\_orders) as vw\_orders,  (select count(\*) from vw\_api\_requests) as vw\_api\_requests; | | |
| **Pass**: All query results contain data; |  | Pass  Fail |
| **Fail**: Query results are empty; |
| x | Copy each table/view and paste into the fcrt-cs-1b.xlsx workbook; | |  |
| **Pass**: %*request%* tables/views shall have +1 row; |  | Pass  Fail |
| **Fail**: All sheets have exactly the same # of rows; |
|  | Verify that no order was placed on the Blofin console; | | |
| **Pass**: The console shows no open orders; |  | Pass  Fail |
| **Fail**: Blofin shows an open order with details matching the request submitted; |

|  | Run Comparison and Create Diff Report | | |
| --- | --- | --- | --- |
|  | comp fcrt-cs-1b fcrt-cs-1a | | |
| **Pass**: Memo fields show[Expired] status; |  | Pass  Fail |
| **Fail**: There are no differences or [Expired] status; |
|  | Save the diff file as fcrt-cs-1b.diff; | | |

|  | Create Response Workbooks | |
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|  | **Attention:** Steps in the sections following are time sensitive; certain activities such as database comparisons are resequenced at the end to allow for time sensitive data capture; from the moment the request is submitted, be cognizant of the time and execute these steps in an orderly fashion. | |
|  | Create and open workbooks below from baseline.xlsx (right); leave open for the duration of this test.   1. ./2.1.2-req-expiry/Documents/fcrt-cs-1c.xlsx; 2. ./2.1.2-req-expiry/Documents/fcrt-cs-1d.xlsx; 3. ./2.1.2-req-expiry/Documents/fcrt-cs-1e.xlsx; |  |

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|  | Place Modified CLI Request | | | |
|  | Configure the requests.ts file:   * 1. symbol shall be in trade\_status ‘**Enabled’**;   2. ensure values *position*and *action* are congruent: **[short:sell]** or **[long:buy]**;   3. set out-of-market price at least a minimum of 10%;   4. set *size* and *leverage* values not to exceed margin requirements;   5. set the expiry time to a value no more than 5m;   6. save the file; | | //-- Test 1: request w/o expiry; w/o tpsl  export const req\_fcrt\_1a: Partial<IRequest> = {  symbol: "XRP-USDT",  margin\_mode: "cross",  position: "short",  action: "sell",  order\_type: "limit",  price: 3.5,  size: 100,  leverage: 50,  expiry\_time: setExpiry("5m"),  }; | |
|  | npx tsx fcrt/2.1-cli-om/2.1.2-req-expiry/test/fcrt-cs-1a.ts > fcrt/2.1-cli-om/2.1.2-req-expiry/logs/fcrt-cs-1b.log 1b | | | |
| **Pass**: Logfile reports ‘*Request submitted*’; | Test 1b: Request submitted, check db for results. <Buffer 00 08 26 11 e6 28> | | Pass  Fail |
| **Fail**: Logfile or console reports error(s); |

|  | Update Response Workbook [fcrt-cs-1c.xlsx] | | | | |
| --- | --- | --- | --- | --- | --- |
|  | select \* from blofin.request order by request;  select \* from blofin.orders order by request;  select \* from blofin.vw\_requests order by request;  select \* from blofin.vw\_orders order by request;  select \* from blofin.vw\_api\_requests order by clientOrderId;  select (select count(\*) from request) as request,  (select count(\*) from orders) as orders,  (select count(\*) from vw\_requests) as vw\_requests,  (select count(\*) from vw\_orders) as vw\_orders,  (select count(\*) from vw\_api\_requests) as vw\_api\_requests; | | | | |
| **Pass**: All query results contain data; | |  | | Pass  Fail |
| **Fail**: Query results are empty; | |
|  | Copy each table/view and paste into the fcrt workbook; save the workbook; | | | | |
| **Pass**: %*request%* tables/views shall have +1 row; | |  | | Pass  Fail |
| **Fail**: All sheets have exactly the same # of rows; | |
|  | Process Request Before Expiry Elapse | | | | |
|  | npx tsx app > fcrt/2.1-cli-om/2.1.2-req-expiry/logs/app-fcrt-cs-1b.log | | | | |
| **Pass**: App is started, no errors; Blofin console shows open order with matching details; | $ npx tsx app > fcrt/2.1-cli-om/2.1.2-req-expiry/logs/app-fcrt-cs-1b.log  /api/v1/trade/orders-history?before=1000110431834  /api/v1/trade/orders-history?before=1000110488215  /api/v1/trade/orders-history?before=1000110488215 | | Pass  Fail | |
| **Fail**: Console or logfile error, or no order open after two (2) history cycles; |

|  | Update Response Workbook [fcrt-cs-1d.xlsx] | | |
| --- | --- | --- | --- |
|  | Following the second history cycle (at most), verify that the order is open and matches the request details; Keep the application running; | | |
| **Pass**: Order with matching details is open on Blofin; |  | Pass  Fail |
| **Fail**: No order is open on Blofin; |
|  | select \* from blofin.request order by request;  select \* from blofin.orders order by request;  select \* from blofin.vw\_requests order by request;  select \* from blofin.vw\_orders order by request;  select \* from blofin.vw\_api\_requests order by clientOrderId;  select (select count(\*) from request) as request,  (select count(\*) from orders) as orders,  (select count(\*) from vw\_requests) as vw\_requests,  (select count(\*) from vw\_orders) as vw\_orders,  (select count(\*) from vw\_api\_requests) as vw\_api\_requests; | | |
| **Pass**: All query results contain data; |  | Pass  Fail |
| **Fail**: Query results are empty; |
|  | Copy each table/view and paste into the fcrt workbook; save the workbook; | | |
| **Pass**: %*request%* tables/views shall have +1 row; |  | Pass  Fail |
| **Fail**: All sheets have exactly the same # of rows; |

|  | Update Response Workbook [fcrt-cs-1e.xlsx] | | |
| --- | --- | --- | --- |
|  | Following expiry elapse, verify that the order is canceled and matches the request details; Keep the application running; | | |
| **Pass**: Canceled order matching details is on Blofin; |  | Pass  Fail |
| **Fail**: Order remains open on Blofin; |
|  | select \* from blofin.request order by request;  select \* from blofin.orders order by request;  select \* from blofin.vw\_requests order by request;  select \* from blofin.vw\_orders order by request;  select \* from blofin.vw\_api\_requests order by clientOrderId;  select (select count(\*) from request) as request,  (select count(\*) from orders) as orders,  (select count(\*) from vw\_requests) as vw\_requests,  (select count(\*) from vw\_orders) as vw\_orders,  (select count(\*) from vw\_api\_requests) as vw\_api\_requests; | | |
| **Pass**: All query results contain data; |  | Pass  Fail |
| **Fail**: Query results are empty; |
|  | Copy each table/view and paste into the fcrt workbook; save the workbook; | | |
| **Pass**: %*request%* tables/views shall have +1 row; |  | Pass  Fail |
| **Fail**: All sheets have exactly the same # of rows; |

|  | Run Comparisons and Create Diff Reports | | |
| --- | --- | --- | --- |
|  | comp fcrt-cs-1c fcrt-cs-1b | | |
| **Pass**: Memo fields show[Expired] status; |  | Pass  Fail |
| **Fail**: There are no differences or [Expired] status; |
|  | save the diff file as fcrt-cs-1c.diff; | |  |
|  | comp fcrt-cs-1d fcrt-cs-1c | | |
| **Pass**: Memo fields show[Expired] status; |  | Pass  Fail |
| **Fail**: There are no differences or [Expired] status; |
|  | save the diff file as fcrt-cs-1d.diff; | |  |
|  | comp fcrt-cs-1e fcrt-cs-1d | | |
| **Pass**: Memo fields show[Expired] status; |  | Pass  Fail |
| **Fail**: There are no differences or [Expired] status; |
|  | save the diff file as fcrt-cs-1e.diff; | |  |