1. Common Error Code For Livn Api Calls

request

Method: any
URI: any

Livn api server

response

request body

404
parameter
invalid

400
request
invalid

500
internal
error

403
forbidden

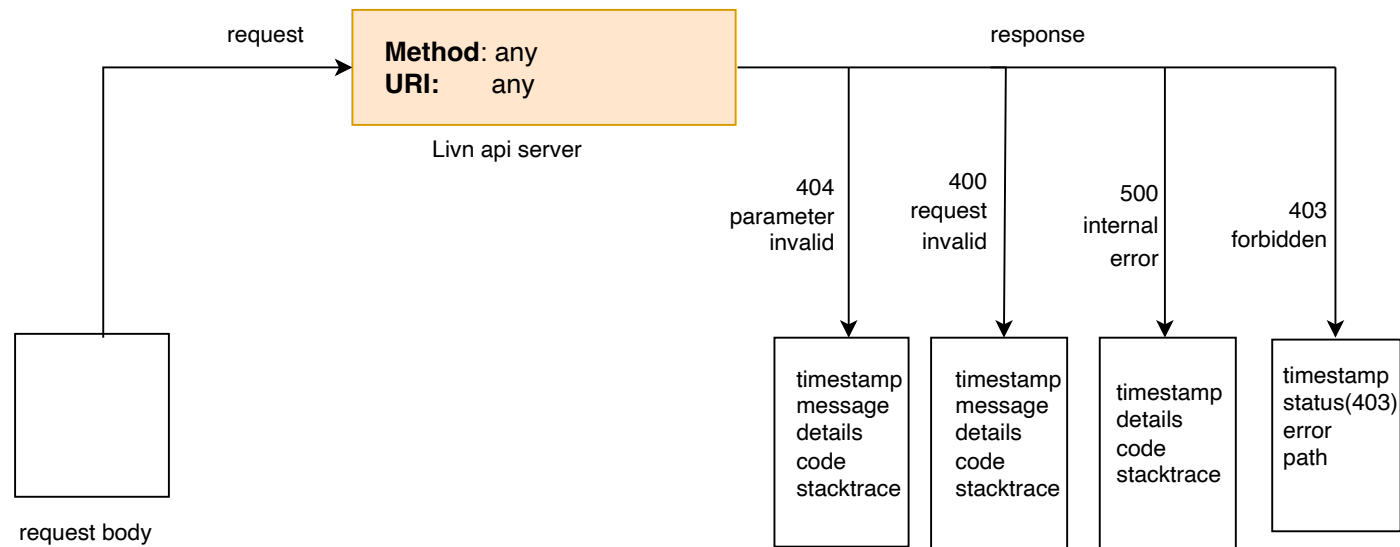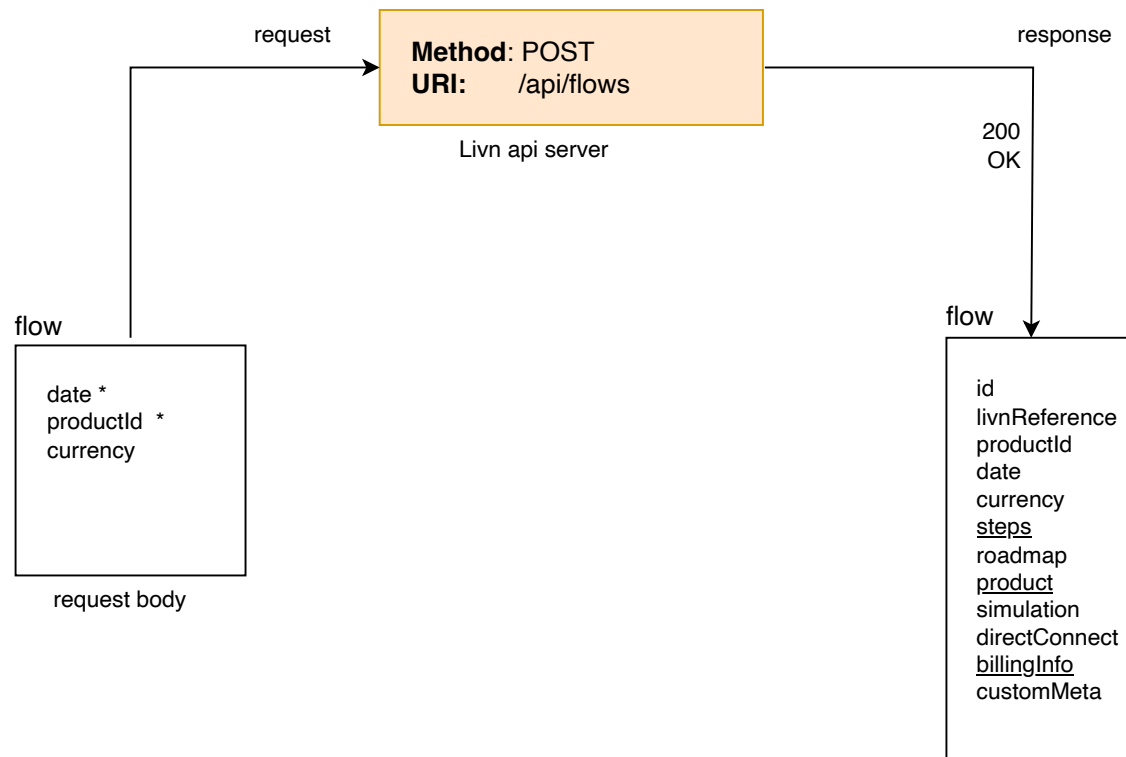| timestamp message details code stacktrace	timestamp message details code stacktrace	timestamp details code stacktrace	timestamp status(403) error path

Note

1. These errors are common and can happen to any Livn api call. They will not be listed in the following api call diagram again.

2. These errors are developer-level error, no need to display to user. If UI and front-end code works well, these error would not normally happen. If they do happen it means bugs in the front-end code or server code. In this case, display a message saying "System error, please try again later." or something like this. There will be log record this call in the server program which can be analyzed later.

3. For errors that caused by user input (user-level error), they will be covered later in this document.

4. Some example reason for causing these errors.
    404 e.g. initiate a flow without product id or with invalid date.
    400 e.g. make a request with json data that can not be parsed.
    403 e.g. make api call without authorization data.

1. Initiate a Flow

request

Method: POST
URI: /api/flows

Livn api server

response

200
OK

flow

date *
productId *
currency

request body

flow

id
livnReference
productId
date
currency
steps
roadmap
product
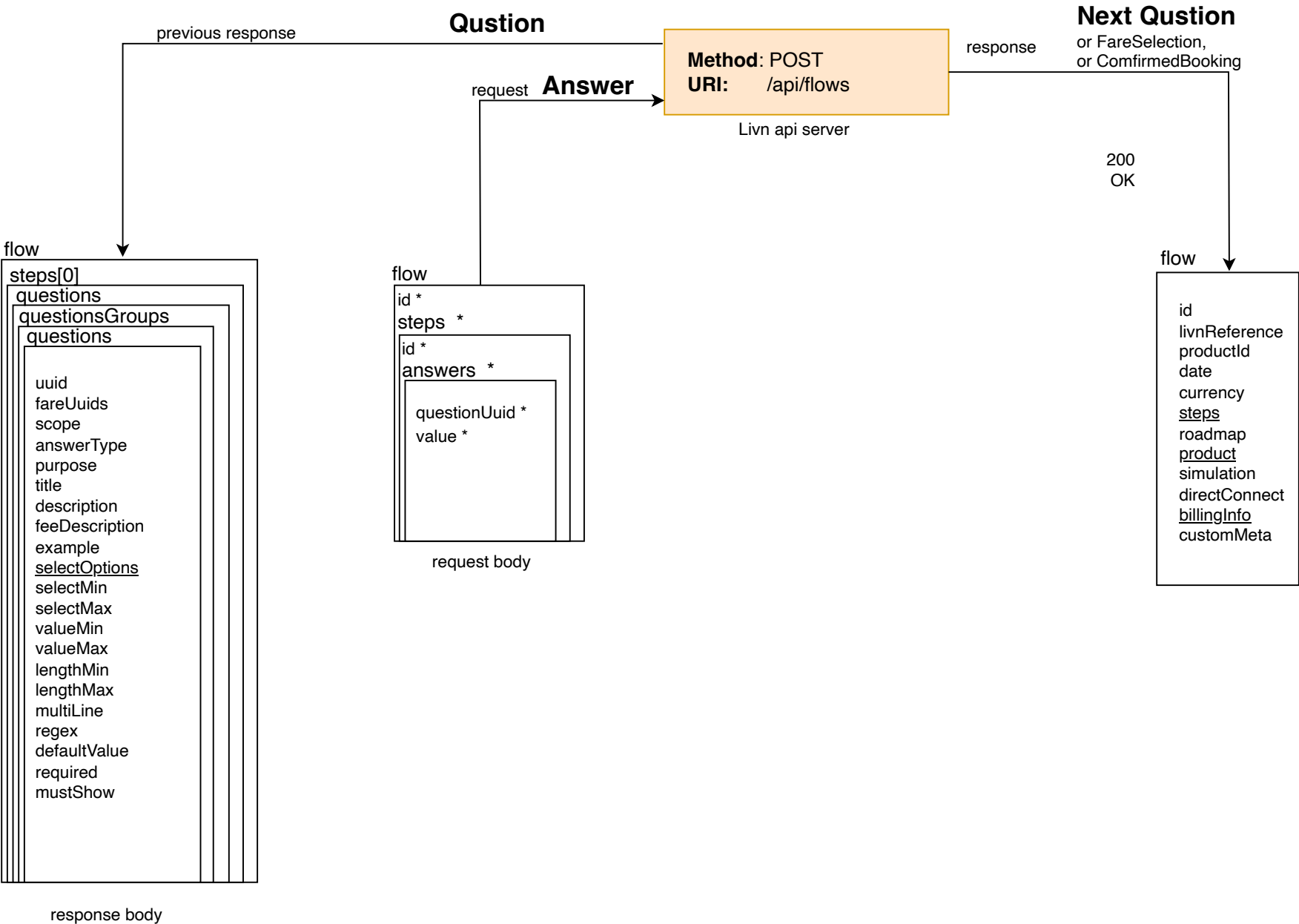simulation
directConnect
billingInfo
customMeta

Note

1. This is the 1st step to book a product

2. After initiate a flow successfully, check the following response data

```
if (flow.steps[0].stepName == "FareSelection") {
        //go on with the FareSelection step
}else{
        //go on with the Question-Answer step
}
```

2. Question-Answer

Qustion

Next Qustion
or FareSelection,
or ComfirmedBooking

previous response

request **Answer**

response

Method: POST
URI: /api/flows

Livn api server

200
OK

flow
steps[0]
questions
questionsGroups
questions

uuid
fareUuids
scope
answerType
purpose
title
description
feeDescription
example
selectOptions
selectMin
selectMax
valueMin
valueMax
lengthMin
lengthMax
multiLine
regex
defaultValue
required
mustShow

response body

flow
id *
steps *
id *
answers *

questionUuid *
value *

request body

flow

id
livnReference
productId
date
currency
steps
roadmap
product
simulation
directConnect
billingInfo
customMeta

Note

1. The previous response include all the questions need to be answered. The UI will be rendered by this.

2. for each question `required==true,` must be answered with valid values by sending a request to the server.

3. Before sending the answers, all values need to be validated using the validating properties if provided.

4. After the request has been sent, if got response. The response should be carefully checked.
check the value of status in step[0].

```
if(steps[0].status == "FAILED"){
        //questions are not properly answered/user input is invalid
        if(!steps[0].error.terminateTransaction && !goBackToRetry){
                //redraw the UI and re-answer the questions
        }else if(!step[0].error.terminateTransaction && goBackToRetry){
                //go back
        }else{
                //abandon this flow and initiate another flow
        }
}else if(steps[0].status == "ACTIVE"){
        //a new step is entered, check step[0].stepName as we do in the initiate step
}else if(steps[0].status == "DONE"){
        //current booking is finished.
}
```