**oVER-ALL SOLution DOCUMENT for**

**“Exception HANDliNG FRAMEWORK”**

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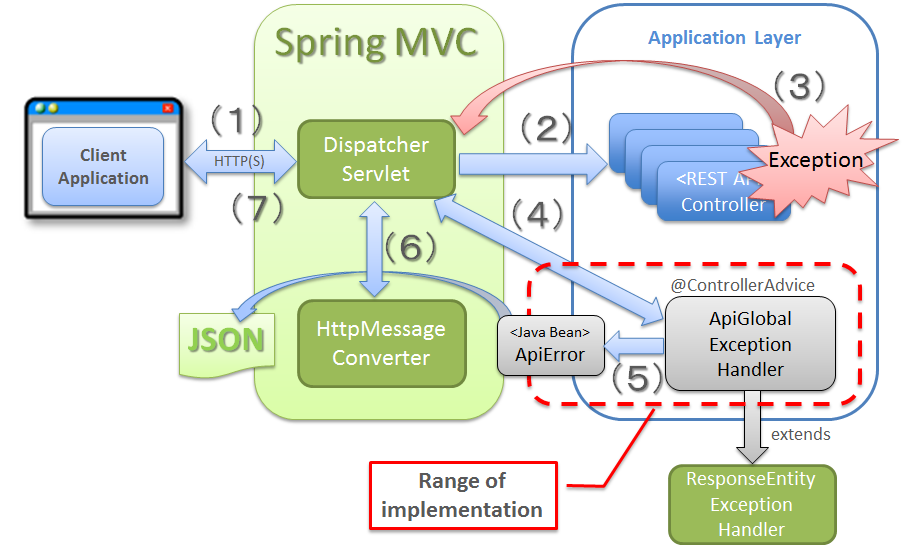
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# DOCUMENT SCOPE

The purpose of this document to provide a function and technical overview of exception handling. This document will provide the basic overview of functional journey, functionalities, logical component level understanding of exception handling. It will also provide a guardrail to the low-level design of the application.

# Detailed Solution - Overall Architecture & Technology Stack



# EXCEPTION HANDLING process

***Defining user-defined Exception:***

Diagram

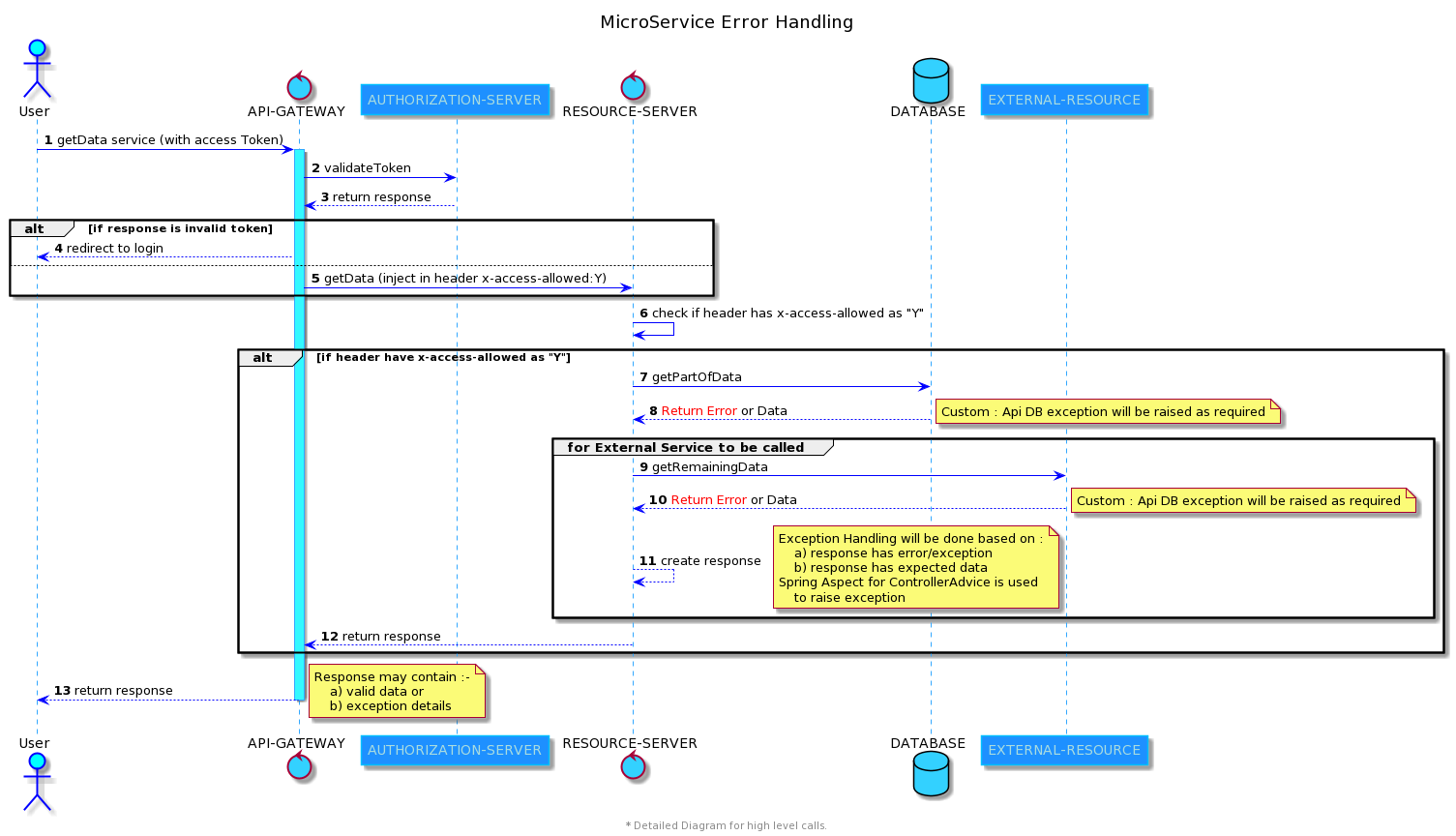
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***Flow diagram to show how spring will use ASPECT for handling exception:***

Timeline

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***Sequence diagram to show how a service call will return error:***



**Sample response from RESOURCE SERVER to GATEWAY for CLIENT or USER :-**

{

"message": "Service Error",  
 "statusCode": "ERR\_500",  
 "baseErrorMsg": [  
 {  
 "componentName": "EXTERNAL-RESOURCE",  
 "friendlyMsg": "There is an exception from external service api call",   
 "errorCode": "402",  
 "errorMsg": "Service took too long to respond due to complex calculations"  
 }  
 ],  
 }

**Response in the log file of RESOURCE – SERVER will contain additional error details :-**

{

"message": "Service Error",  
 "statusCode": "ERR\_500",  
 "baseErrorMsg": [  
 {  
 "componentName": "EXTERNAL-RESOURCE",  
 "friendlyMsg": "There is an exception from external service api call",   
 "errorCode": "402",  
 "errorMsg": "Service took too long to respond due to complex calculations"  
 }  
 ],  
 "additionalErrorDetails": {  
 "serviceName": "getData",  
 "endPoint": "/domain/getData",  
 "raisedOn": "dd-mm-yyyy hh:mm:ss",  
 "request": "",  
 "response": "402-Service took too long to respond due to complex calculations",  
 "exceptionStackTrace": "",  
 "exceptionType": "ApiServiceException"  
 }  
 }

|  |  |  |  |
| --- | --- | --- | --- |
| # | Parent Node Name | Response Attribute | Description |
| 1 |  | message | Contains short message about the error or exception |
| 2 |  | statusCode | System error code |
| 3 | baseErrorMsg | componentName | Name of microservice or external resource where error has occurred |
| 4 | baseErrorMsg | friendlyMsg | business messages if required to be displayed in UI |
| 5 | baseErrorMsg | errorCode | actual error code from external service api |
| 6 | baseErrorMsg | errorMsg | actual error message from external service api |
| 7 | additionalErrorDetails | serviceName | method name of resource |
| 8 | additionalErrorDetails | endPoint | full service uri with host and port |
| 9 | additionalErrorDetails | raisedOn | time when exception occurred |
| 10 | additionalErrorDetails | request | the request sent to access the resource |
| 11 | additionalErrorDetails | response | the response which came from resource |
| 12 | additionalErrorDetails | exceptionStackTrace | the full exception stack trace if available |
| 13 | additionalErrorDetails | exceptionType | name of the user defined exception raised |

# GlOSSARY

Abbreviations & Terms

The following abbreviations and terms are referred to in this document:

|  |  |
| --- | --- |
| **Abbreviation / Term** | **Description** |
|  |  |
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