Vytelle Systems

REST API Specifications.

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Prepared by:

Wang Peng

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	Name	Designation	Signatures
Developed By	Wang Peng	Lead Software Engineer	
Reviewed By			
Approved By			

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INTRODUCTION

This document is compiled based on wireframes provided in order to list down expected REST API specifications. All API are listed with expected request parameters and response JSON body, which are subject to change depending on requirements changes.

STATUS CODE & EXPECTED RESPONSE

All the APIs are listed with 200 OK status code. For reference, some other status codes/responses that we can encounter. Following are these statuses:

- 200 OK
- 400 Bad Request
- 401 Unauthorized
- 403 Forbidden
- 404 Not Found
- 500 Internal Server Error

2.1 200 OK

Standard response for successful HTTP requests. The actual response will depend on the request method used. In a GET request, the response will contain an entity corresponding to the requested resource. In a POST request, the response will contain an entity describing or containing the result of the action.

Expected JSON Response:

```
{
    status: 200,
    message: "successful",
    data: { }
}
```

Note:
The successful result of a PUT or a DELETE is often not a 200 OK but a 204 No Content (or a 201 Created when the resource is uploaded for the first time).

2.2 400 Bad Request

The server cannot or will not process the request due to an apparent client error (e.g., malformed request syntax, size too large, invalid request message framing, or deceptive request routing).

Expected JSON Response:

```
{
    status: 400,
    message: "Bad request",
    data: null
}
```

2.3 401 Unauthorized

The HTTP 401 Unauthorized client error status response code indicates that the request has not been applied because it lacks valid authentication credentials for the target resource.

Expected JSON Response:

```
{
    status: 401,
    message: "Login required",
    data: null
}
```

2.4 403 Forbidden

The HTTP 403 Forbidden client error status response code indicates that the server understood the request but refuses to authorize it.
This status is similar to 401, but in this case, re-authenticating will make no difference. The access is permanently forbidden and tied to the application logic, such as insufficient rights to a resource.

Expected JSON Response:

```
{
    status: 403,
    message: "Forbidden/Permission required",
    data: null
}
```

2.5 404 Not Found

The HTTP 404 Not Found client error response code indicates that the server can't find the requested resource. Links that lead to a 404 page are often called broken or dead links.

Expected JSON Response:

```
{
    status: 404,
    message: "Not Found",
    data: null
}
```

2.6 500 Internal Server Error

The HTTP 500 Internal Server Error server error response code indicates that the server encountered an unexpected condition that prevented it from fulfilling the request.

Expected JSON Response:

```
{
    status: 500,
    message: "Server Error",
    data: null
}
```

REST API

Assuming all APIs, except Login, Forgot Password, Reset Your Password, will have userToken in header for authenticated access. userToken will be received from the response of Login API. Also, Access-Control-Allow-Origin: * will be included in the header.

3.1 Login

API Info

HTTP Method	POST
Screen	Login
Description	On the Login screen, the user gives input to the email and password fields and hits the login button. Give access to the system on login. On first attempt to login, the newly created user will be redirected to Reset Password screen for creating a new password.

Request Parameters:

Parameter Name	Description
email	string
password	string

Expected JSON Response:

```
{
      status: 200,
      message: "Success",
      data: {
            token: string,
            user: {
                  "displayName": string,
                  "email": string,
                  "fullName": string,
                  "id": number,
                  "imageUrl": string,
                  "isFirstTimeLogin": bool,
      },
            packageDetails: { weightUnit, dataPackages, programs ... },
            permissions: { }
      }
}
```

Sample JSON Response:

```
{
      status: 200,
      message: "Success",
      data: {
            token: “35as4d56as1d56112e1221323021e3021e”,
            user: {
                  "displayName": “John Doe,
                  "email": “someone@gmail.com,
                  "fullName": “John Doe”,
```

```
                "id": 1,
                "imageUrl": “https://image.website.com/123123,
                "isFirstTimeLogin": true,
        },
                packageDetails: {
                        weightUnit: “kg”,
                        dataPackages: [
                                “Efficiency Analytics”,
                                “Feeding Events Extra”
                                ],
                        programs: [
                                “Beef Marketing Program”,
                                ”Beef Genetics Program”
                                ],
                ... },
                permissions: { }
        }
}
```

Note:
Package Detail & Permissions will contain relevant packages that a logged in user has and also which permissions he/she have for application. *isFirstTimeLogin* is used to identify if the user is logging in for the first time or not.

3.2 Forgot Password

API Info

HTTP Method	POST
Screen	Forgot Password
Description	Get a temporary link in email based on email provided.

Request Parameters:

Parameter Name	Description
email	string

Expected JSON Response(Success):

```
{
  status: 200,
  message: Success,
  data: null
}
```

Expected JSON Response(Failure):

```
{
  status: 404,
  message: “Email does not exist”,
  data: null
}
```

3.3 Validate Link

API Info

HTTP Method	POST
Screen	Reset Password
Description	Check if the provided link is valid.

Request Parameters:

Parameter Name	Description
token	string

Expected JSON Response(Success):

```
{
  status: 200,
  message: Success,
  data: null
}
```

3.4 Reset Your Password

API Info

HTTP Method	POST
Screen	Reset Password
Description	Reset password

Request Parameters:

Parameter Name	Description
code	string
newPassword	Password
confirmPassword	password

Expected JSON Response:

```
{
  status: 200,
  message: Success,
  data: null
}
```

3.5 Trial Performance Graph - Beef Genetics Program

API Info

HTTP Method	GET
Screen	Dashboard - Beef Genetics Program
Description	Get data to display Trial performance chart

Request Parameters:

Parameter Name	Description
startDate	date
endDate	date
locationId	number(Non mandatory)

Expected JSON Response:

```
{
  status: 200,
  message: "Success",
  data: {
    trialsCompleted: number,
    animalsTested: number,
    verified: number,
    unverified: number,
    void: number
  },
}
```

3.6 Trial Animals Flag Graph - Beef Genetics Program

API Info

HTTP Method	GET
Screen	Dashboard - Beef Genetics Program
Description	Get data to display Trial Animals Flag chart

Request Parameters:

Parameter Name	Description
startDate	date
endDate	date
locationId	number(Non mandatory)
trialId	number(Non mandatory)

Expected JSON Response:

```
{
  status: 200,
  message: "Success",
  data: {
    totalLowIntake: number,
    totalWeightLoss: number,
    lowIntake: array[{ lowIntake:number, date:date }],
    weightLoss: array[{ weightLoss:number, date:date }],
  },
}
```

3.7 Animal Performance - Beef Marketing Program

API Info

HTTP Method	GET
Screen	Dashboard - Beef Genetics Program
Description	Get data to display Animal Performance chart

Request Parameters:

Parameter Name	Description
date	date
locationId	number(Non mandatory)
penId	number(Non mandatory)

Expected JSON Response:

```
{
  status: 200,
  message: "Success",
  data: {
    totalAnimals: number,
    totalAvgWeight: number,
    avgDaysOnFeed: number,
    weightLossFlagCount: number,
    avgAnimalWeight: array[{ avgAnimalWeight:number, date:date }],
  },
}
```

3.8 Marketing Forecast - Beef Marketing Program

API Info

HTTP Method	GET
Screen	Dashboard - Beef Genetics Program
Description	Get data to display Marketing Forecast chart

Request Parameters:

Parameter Name	Description
penId	number(Non mandatory)
locationId	number(Non mandatory)
date	date

Expected JSON Response:

```
{
  status: 200,
  message: "Success",
  data: {
    totalAnimals: number,
    variationRange: {from: number, to: number},
    avgHCWeight: number,
    daysToMarket: number,
  },
}
```

3.9 Data Submission Status - Beef Marketing Program

API Info

HTTP Method	GET
Screen	Dashboard - Beef Genetics Program
Description	Get data to display Data Submission Status chart

Request Parameters:

Parameter Name	Description
penId	number(Non mandatory)
locationId	number(Non mandatory)

Expected JSON Response:

```
{
  status: 200,
  message: "Success",
  data: {
    dataSubmitted: number,
    dataNotSubmitted: number,
  },
}
```

3.10 Animal Flags Graph - Beef Marketing Program

API Info

HTTP Method	GET
Screen	Dashboard - Beef Genetics Program
Description	Get data to display Animal Flags chart for last 48 hrs

Request Parameters:

Parameter Name	Description
penId	number(Non mandatory)
locationId	number(Non mandatory)

Expected JSON Response:

```
{
  status: 200,
  message: "Success",
  data: {
    totalAnimals: number,
    notAppearedOnGSB: number,
    weightLoss: number,
    poorPerformance: number,
  },
}
```