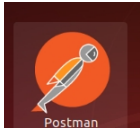


# MiniAspire API Documentation

This documentation contains basic information about the sample API. The API integration guide also included with in this document.

## To test the API

Use **postman** chrome extension.



## API Behavior

This sample API allows to create loans for users, and handle repayments. All the responses are in **JSON** format.

## API authentication

This API uses simple token based authentication for access the system.

Before make the API request, for each request have to provide the **X-AUTH-TOKEN** header.

Authorization		Headers (1)	Body	Pre-request Script	Tests
	Key		Value		
<input checked="" type="checkbox"/>	X-AUTH-TOKEN		Px7zgU79PYR9ULEIrEetsb		
	New key		Value		

The `API_AUTH_TOKEN` is customizable in `.env` file.

If request without token, will generate the below error.

```
{
  "success": false,
  "msg": "Unauthorized"
}
```

## Basic API functions

- Create loan user.
- Update loan user details.
- Get loan users list.
- Get specific loan user details.
- Get all loans.
- Get Specific loan details.
- Create new loan.
- Update Loan details.
- List loan repayment history.
- Make a loan repayment.

## Create loan user

- Request type : **POST**
- URL : **/api/v1/loan-user/create-loan-user**
- parameters :

<b>id</b> 🔑	int(10)
<b>first_name</b>	varchar(255)
<b>last_name</b>	varchar(255)
<b>addressLine1</b>	text
<b>addressLine2</b>	text
<b>addressLine3</b>	text

- Example request

POST ▾	http://www.ervapp.local/api/v1/loan-user/create-loan-user?first_name=Kalana&last_name=Wattearachchi&address...		Params
Key	Value	Description	
<input checked="" type="checkbox"/> first_name	Kalana		
<input checked="" type="checkbox"/> last_name	Wattearachchi		
<input checked="" type="checkbox"/> addressLine1	No 70		
<input checked="" type="checkbox"/> addressLine2	Kandawatta		
<input checked="" type="checkbox"/> addressLine3	Battaramulla		
New key	Value	Description	
Authorization	Headers (1)	Body	Pre-request Script
Key	Value	Description	
<input checked="" type="checkbox"/> X-AUTH-TOKEN	Px7zgU79PYR9ULElrEetsb		
New key	Value	Description	

- Out put

```
{
  "success": true,
  "user": {
    "first_name": "Kalana",
    "last_name": "Wattearachchi",
    "addressLine1": "No 70",
    "addressLine2": "Kandawatta",
    "addressLine3": "Battaramulla",
    "updated_at": "2018-11-10 07:58:21",
    "created_at": "2018-11-10 07:58:21",
    "id": 14
  }
}
```

## Update Loan User

- Request type : **POST**
- URL : **/api/v1/loan-user/update-loan-user/{loan user id}**
- Example request

▶ update-loan-user E

POST ▾	http://www.ervapp.local/api/v1/loan-user/update-loan-user/1?first_name=kalana	Params	Send ▾
--------	---	--------	--------

	Key	Value	Description	..
<input checked="" type="checkbox"/>	first_name	kalana		
	New key	Value	Description	

Authorization   **Headers (1)**   Body   Pre-request Script   Tests

	Key	Value	Description	...	Bulk Edit
<input checked="" type="checkbox"/>	X-AUTH-TOKEN	Px7zgU79PYR9ULElrEetsb			
	New key	Value	Description		

- Out put

```
{  
  "success": true,  
  "status": "updated"  
}
```

## Get Loan Users

- Request type : **GET**
- URL : **/api/v1/loan-user/get-loan-users**
- Example request

get-loan-users

GET  Params

Authorization Headers (1) Body Pre-request Script Tests

Key	Value	Description	...	Bulk Edit
<input checked="" type="checkbox"/> X-AUTH-TOKEN	Px7zgU79PYR9ULElrEetsb			

- Out put

```
{
  "success": true,
  "loan_users": [
    {
      "id": 1,
      "first_name": "kalana",
      "last_name": "wattearachchi",
      "addressLine1": "no 70",
      "addressLine2": "9th lane, kandawatta rd",
      "addressLine3": "Battaramulla",
      "created_at": "2018-11-09 00:00:00",
      "updated_at": "2018-11-10 08:05:49"
    },
    {
      "id": 2,
      "first_name": "ABC",
      "last_name": null,
      "addressLine1": null,
      "addressLine2": null,
      "addressLine3": null,
      "created_at": "2018-11-09 11:41:50",
      "updated_at": "2018-11-09 11:41:50"
    },
    {
      "id": 3,
      "first_name": "Dilini",
      "last_name": "Perera",
      "addressLine1": null,
      "addressLine2": null,
      "addressLine3": null,
      "created_at": "2018-11-09 11:42:55",
      "updated_at": "2018-11-09 11:42:55"
    }
  ]
}
```

## Get Loan User

- Request type : **GET**
- URL : **/api/v1/loan-user/get-loan-user/{user id}**
- Example request

GET	http://www.ervapp.local/api/v1/loan-user/get-loan-user/1	Params	Send
Authorization	Headers (1)	Body	Pre-request Script
Key	Value	Description	...
X-AUTH-TOKEN	Px7zgU79PYR9ULElrEetsb		Bulk Edit

- Out put

```
{
  "success": true,
  "loan_user": {
    "id": 1,
    "first_name": "kalana",
    "last_name": "wattearachchi",
    "addressLine1": "no 70",
    "addressLine2": "9th lane, kandawatta rd",
    "addressLine3": "Battaramulla",
    "created_at": "2018-11-09 00:00:00",
    "updated_at": "2018-11-10 08:05:49",
    "loans": [
      {
        "id": 1,
        "loan_user": 1,
        "loan_amount": 10000,
        "loan_duration": 12,
        "loan_interest_rate": 16,
        "loan_repayment_frequency": "1",
        "loan_arrangement_fee": 1500,
        "loan_payment_amt": 907.31,
        "created_at": "2018-11-09 17:13:25",
        "updated_at": "2018-11-10 17:20:59"
      },
      {
        "id": 2,
        "loan_user": 1,
        "loan_amount": 10000,
        "loan_duration": 12,
        "loan_interest_rate": 14.25,
        "loan_repayment_frequency": "1",
        "loan_arrangement_fee": 1500,
        "loan_payment_amt": 899.05,
        "created_at": "2018-11-09 17:16:37",
        "updated_at": "2018-11-09 17:16:37"
      }
    ]
  }
}
```

## Get Loans

- Request type : **GET**
- URL : **/api/v1/loan/get-loans**
- Parameters

<b>id</b> 🔑	int(10)
<b>loan_user</b> 🔑	int(10)
<b>loan_amount</b>	double(8,2)
<b>loan_duration</b>	int(10)
<b>loan_interest_rate</b>	double(8,2)
<b>loan_repayment_frequency</b>	enum('1', '2', '3', '4')
<b>loan_arrangement_fee</b>	double(8,2)
<b>loan_payment_amt</b>	double(8,2)

- Example request

GET ▾	http://www.ervapp.local/api/v1/loan/get-loans	Params	Send ▾
Authorization	Headers (1)	Body	Pre-request Script Tests
Key	Value	Description	*** Bulk Edit
<input checked="" type="checkbox"/> X-AUTH-TOKEN	Px7zgU79PYR9ULEIrEetsb		

- Out put

```
{
  "success": true,
  "loans": [
    {
      "id": 1,
      "loan_user": 1,
      "loan_amount": 10000,
      "loan_duration": 12,
      "loan_interest_rate": 16,
      "loan_repayment_frequency": "1",
      "loan_arrangement_fee": 1500,
      "loan_payment_amt": 907.31,
      "created_at": "2018-11-09 17:13:25",
      "updated_at": "2018-11-10 06:35:16"
    },
    {
      "id": 2,
      "loan_user": 1,
      "loan_amount": 10000,
      "loan_duration": 12,
      "loan_interest_rate": 14.25,
      "loan_repayment_frequency": "1",
      "loan_arrangement_fee": 1500,
      "loan_payment_amt": 899.05,
      "created_at": "2018-11-09 17:16:37",
      "updated_at": "2018-11-09 17:16:37"
    }
  ]
}
```

## Get Loan

- Request type : **GET**
- URL : **/api/v1/loan/get-loan/{loan id}**
- Example request

get-loan/{id}

GET  Params

Authorization Headers (1) Body Pre-request Script Tests

	Key	Value	Description	...	Bulk Edit
<input checked="" type="checkbox"/>	X-AUTH-TOKEN	Px7zgU79PYR9ULElrEetsb			

- Out put

```
{
  "success": true,
  "loan": {
    "id": 1,
    "loan_user": 1,
    "loan_amount": 10000,
    "loan_duration": 12,
    "loan_interest_rate": 16,
    "loan_repayment_frequency": "1",
    "loan_arrangement_fee": 1500,
    "loan_payment_amt": 907.31,
    "created_at": "2018-11-09 17:13:25",
    "updated_at": "2018-11-10 06:35:16"
  }
}
```

## Create New Loan

- Request type : **POST**
- URL : **/api/v1/loan/create-new-loan**
- Example request

create-new-loan

POST  Params Send

	Key	Value	Description
<input checked="" type="checkbox"/>	loan_user	1	
<input checked="" type="checkbox"/>	loan_amount	10000	
<input checked="" type="checkbox"/>	loan_duration	12	
<input checked="" type="checkbox"/>	loan_interest_rate	14.25	
<input checked="" type="checkbox"/>	loan_repayment_frequency	1	
<input checked="" type="checkbox"/>	loan_arrangement_fee	1500	
	New key	Value	Description

Authorization Headers (1) Body Pre-request Script Tests

	Key	Value	Description	...	Bulk Edit
<input checked="" type="checkbox"/>	X-AUTH-TOKEN	Px7zgU79PYR9ULElrEetsb			

- Out put

```
{
  "success": true,
  "loan": {
    "id": 6,
    "loan_user": 1,
    "loan_amount": 10000,
    "loan_duration": 12,
    "loan_interest_rate": 14.25,
    "loan_repayment_frequency": "1",
    "loan_arrangement_fee": 1500,
    "loan_payment_amt": 899.05,
    "created_at": "2018-11-10 17:13:34",
    "updated_at": "2018-11-10 17:13:34"
  }
}
```



## Update Loan Details

- Request type : **POST**
- URL : **/api/v1/loan/update-loan/{loan id}**
- Example request

▶ update-loan

POST ☐ http://www.ervapp.local/api/v1/loan/update-loan/1?loan\_user=1&loan\_amount=10000&loan\_duration=... Params [Send](#) ☐

	Key	Value	Description	...
<input checked="" type="checkbox"/>	loan_user	1		
<input checked="" type="checkbox"/>	loan_amount	10000		
<input checked="" type="checkbox"/>	loan_duration	12		
<input checked="" type="checkbox"/>	loan_interest_rate	16		
<input checked="" type="checkbox"/>	loan_repayment_frequency	1		
<input checked="" type="checkbox"/>	loan_arrangement_fee	1500		
	New key	Value	Description	

Authorization Headers (1) Body Pre-request Script Tests

	Key	Value	Description	...	Bulk Edit
<input checked="" type="checkbox"/>	X-AUTH-TOKEN	Px7zgU79PYR9ULElrEetsb			

- Out put

```
{  
  "success": true,  
  "status": "updated"  
}
```

## Get Loan Repayments

- Request type : **GET**
- URL : **/api/v1/loan/payment/history/{loan id}**
- Example request

▶ payment/history/{loan\_id} Ex

GET ▾	http://www.ervapp.local/api/v1/loan/payment/history/1	Params	Send ▾	
Authorization	Headers (1)	Body	Pre-request Script	Tests
Key	Value	Description	...	Bulk Edit
<input checked="" type="checkbox"/> X-AUTH-TOKEN	Px7zgU79PYR9ULElrEetsb			

- Out put

```
{
  "success": true,
  "loan": {
    "id": 1,
    "loan_user": 1,
    "loan_amount": 10000,
    "loan_duration": 12,
    "loan_interest_rate": 16,
    "loan_repayment_frequency": "1",
    "loan_arrangement_fee": 1500,
    "loan_payment_amt": 907.31,
    "created_at": "2018-11-09 17:13:25",
    "updated_at": "2018-11-10 17:20:59",
    "repayments": [
      {
        "id": 1,
        "loan": 1,
        "amount": 1500,
        "created_at": "2018-11-10 07:15:31",
        "updated_at": "2018-11-10 07:15:31"
      },
      {
        "id": 2,
        "loan": 1,
        "amount": 1500,
        "created_at": "2018-11-10 07:15:33",
        "updated_at": "2018-11-10 07:15:33"
      }
    ]
  },
  "loan_payment_balance": {
    "paid_amount": 3000,
    "loan_value_at_maturity": 10887.72,
    "loan_balance": 7887.72
  }
},
```

## Make Loan Repayments

- Request type : **POST**
- URL : **/api/v1/loan/repayment/{loan id}**
- Example request

▶ repayment E

POST ▼	http://www.ervapp.local/api/v1/loan/repayment/1?amount=387.72	Params	Send ▼
--------	---	--------	--------

	Key	Value	Description	
<input checked="" type="checkbox"/>	amount	387.72		
	New key	Value	Description	

AuthorizationHeaders (1)BodyPre-request ScriptTests

	Key	Value	Description	
<input checked="" type="checkbox"/>	X-AUTH-TOKEN	Px7zgU79PYR9ULElrEetsb		
	New key	Value	Description	

- Out put

```
{
  "success": true,
  "status": "updated"
}
```

## API Exceptions and Error messages

1. Occurs when making an invalid request. : ex :- invalid **GET** or **POST** request

```
{
  "error": "Invalid request"
}
```

2. Invalid **auth token** or token not provided.

```
{
  "success": false,
  "msg": "Unauthorized"
}
```

3. Invalid url request.

```
{
  "error": "Url not found"
}
```

4. Empty post data submission.

```
{
  "success": false,
  "msg": "Please provide the required data"
}
```

5. Create loan user empty post data.

```
{
  "success": false,
  "errors": {
    "validations": {
      "first_name": [
        "The first name is required."
      ]
    }
  }
}
```

6. Create loan empty post data.

```
{
  "success": false,
  "errors": {
    "validations": {
      "loan_user": [
        "The loan user is required."
      ],
      "loan_amount": [
        "The loan amount is required."
      ],
      "loan_duration": [
        "The loan duration is required."
      ],
      "loan_interest_rate": [
        "The loan interest rate is required."
      ],
      "loan_repayment_frequency": [
        "The loan repayment frequency is required."
      ],
      "loan_arrangement_fee": [
        "The loan arrangement fee is required."
      ]
    }
  }
}
```

7. Loan repayment empty amount.

```
{
  "success": false,
  "errors": {
    "validations": {
      "amount": [
        "The amount is required."
      ]
    }
  }
}
```

8. Make payment for already settled loan.

```
{
  "success": false,
  "errors": {
    "validations": {
      "amount": [
        "The loan is already settled!"
      ]
    }
  }
}
```