

# SafeVault API Documentation

Version: 1.0.0

Generated: 5/18/2025, 3:25:17 PM

Author: Anmoldeep Singh

## Table of Contents

[1. Overview](#)

[2. Authentication](#)

[3. User Operations](#)

[4. Admin Operations](#)

[5. Reports](#)

[6. Data Models](#)

[7. Security](#)

[8. Support](#)

# 1. Overview

SafeVault provides a RESTful API for secure digital wallet and cryptocurrency management. The API enables users to perform secure transactions while providing administrative controls for enhanced security and monitoring.

Base URL: <http://localhost:8000/api>

## 2. Authentication

### Register User

POST /auth/register

```
{
  "fullName": "string",
  "email": "string",
  "mobileNumber": "string",
  "password": "string"
}
```

### Login

POST /auth/login

```
{
  "email": "string",
  "password": "string"
}
```

## 3. User Operations

### Get Profile

GET /users/profile

Retrieve user profile information

### Transfer Funds

POST /users/transfer/:username

```
{  
  "amount": "number",  
  "currencyType": "string (INR/Bitcoin/Ethereum/Dogecoin)"  
}
```

### Convert Currency

POST /users/conversion/convert/:userId

```
{  
  "amount": "number",  
  "fromCurrency": "string",  
  "toCurrency": "string"  
}
```

## 4. Admin Operations

### Admin Login

POST /admin/login

```
{  
  "email": "string",  
  "password": "string"  
}
```

### List Users

GET /admin/users

### Ban User

POST /admin/users/:userId/ban

### Flag User

POST /admin/users/:userId/flag

### Delete User

DELETE /admin/users/:username/delete

## 5. Reports

### Generate User Report

GET /reports/download/:userId

Response: PDF file containing user transaction history and portfolio details

## 6. Data Models

### User Model

```
{
  "fullName": "string",
  "email": "string",
  "mobileNumber": "string",
  "INR": "number",
  "Bitcoin": "number",
  "Ethereum": "number",
  "Dogecoin": "number",
  "isBanned": "boolean",
  "isFlaged": "boolean"
}
```

### Transaction Model

```
{
  "sender": {
    "userId": "string",
    "fullName": "string"
  },
  "receiver": {
    "userId": "string",
    "fullName": "string"
  },
  "amount": "number",
  "currencyType": "string",
  "timestamp": "date"
}
```

## 7. Security

- All endpoints use HTTPS
- Passwords are hashed using bcrypt
- JWT tokens expire after 24 hours
- Rate limiting prevents brute force attacks
- Input validation prevents injection attacks
- Transaction validation ensures data integrity

## 8. Support

For API support, please contact:

Email: [support@safevault.com](mailto:support@safevault.com)

GitHub Issues: [github.com/anmoldeepsingh/SafeVault/issues](https://github.com/anmoldeepsingh/SafeVault/issues)

© 2024 SafeVault. All rights reserved.