# API Documentation: Dynamic Risk Assessment App

## Introduction

This document details the API functions provided by the Dynamic Risk Assessment App.   
These APIs allow users to manage assets, retrieve information, and perform operations such as adding, deleting, and downloading reports.

## Server Information

The application is hosted online at the following:  
Website: http://76.92.190.91:8501  
API Base URL: http://76.92.190.91:8000

## 1. GET /assets

Fetches all assets in the database along with their risk scores and associated CVEs.

### Request:

Method: GET

URL: /assets

### Response:

HTTP 200 OK  
[  
 {  
 "id": 1,  
 "Asset Name": "Cisco Catalyst 9300",  
 "Model": "9300",  
 "Version": "16.12",  
 "Risk Score": 5,  
 "CVEs": ["CVE-2024-1234", "CVE-2024-5678"]  
 },  
 ...  
]

### Example (curl):

curl -X GET http://76.92.190.91:8000/assets

## 2. POST /assets

Adds a new asset to the database.

### Request:

Method: POST  
URL: /assets  
Headers:   
 Content-Type: application/json  
Body:  
{  
 "name": "Cisco Firewall",  
 "model": "ASA5500",  
 "version": "9.14"  
}

### Response:

HTTP 200 OK  
{  
 "message": "Added asset: Cisco Firewall (ASA5500, 9.14)"  
}

### Example (curl):

curl -X POST http://76.92.190.91:8000/assets \  
-H "Content-Type: application/json" \  
-d '{"name": "Cisco Firewall", "model": "ASA5500", "version": "9.14"}'

## 3. DELETE /assets/{asset\_id}

Deletes an asset from the database by its ID.

### Request:

Method: DELETE  
URL: /assets/{asset\_id}

### Response:

HTTP 200 OK  
{  
 "message": "Asset with ID {asset\_id} deleted successfully"  
}

### Example (curl):

curl -X DELETE http://76.92.190.91:8000/assets/1

## 4. Generate and Download PDF Reports

You can generate and download PDF reports for assets from the website hosted at http://76.92.190.91:8501.   
The process involves selecting an asset and clicking the "Generate PDF Report" button. The report contains detailed asset information, including risk scores and associated CVEs.