# API Documentation

1. Retrieve a list of all funds

* Endpoint : GET /funds
* Description : Retrieves a list of all the investment funds
* Sample Request :
  + curl -X GET <http://localhost:8099/funds>
* Sample Response :
  + [ { "fund\_id": "FD0001", "fund\_name": "Testing Fund", "fund\_manager\_name": "Test Fund Manager", "fund\_desc": "A test fund", "fund\_nav": 1000.00, "creation\_date": "2024-07-11", "performance": 10.0 } ]

1. Create new fund
   * Endpoint : POST /funds
   * Description : Create a new investment fund into DB
   * Sample Request :
     + curl -X POST http://localhost:8099/funds \ -H "Content-Type: application/json" \ -d { "fund\_id": "FD0001", "fund\_name": "Testing Fund", "fund\_manager\_name": "Test Fund Manager", "fund\_desc": "A test fund", "fund\_nav": 1000.00, "creation\_date": "2024-07-11", "performance": 10.0 } '
   * Sample Response :
     + { "fund\_id": "FD0001", "fund\_name": "Testing Fund", "fund\_manager\_name": "Test Fund Manager", "fund\_desc": "A test fund", "fund\_nav": 1000.00, "creation\_date": "2024-07-11", "performance": 10.0 }
2. Retrieve details of a specific investment fund using its ID
   * Endpoint: GET /funds/<fund\_id>
   * Description : Retrieves the details of the investment fund based on ID
   * Sample Request :
     + curl -X GET <http://localhost:8099/funds/FD0001>
   * Sample Response :
     + { "fund\_id": "FD0001", "fund\_name": "Testing Fund", "fund\_manager\_name": "Test Fund Manager", "fund\_desc": "A test fund", "fund\_nav": 1000.00, "creation\_date": "2024-07-11", "performance": 10.0 }

# SQL Database Documentation

1. SQL Schema

CREATE TABLE IF NOT EXISTS investment\_funds (

fund\_id TEXT PRIMARY KEY,

fund\_name VARCHAR(255) NOT NULL,

fund\_manager\_name VARCHAR(100) NOT NULL,

fund\_desc TEXT,

fund\_nav DECIMAL(15, 2),

creation\_date DATE,

performance DECIMAL(5, 2)

);

* + fund\_id: Unique identifier for each fund.
  + fund\_name: Name of the fund.
  + fund\_manager\_name: Name of the fund manager.
  + fund\_desc: Description of the fund.
  + fund\_nav: Net Asset Value of the fund.
  + creation\_date: Date when the fund was created.
  + performance: Performance of the fund as a percentage.