**Mutual Fund Purchase Summary API Documentation**

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### Endpoint 1: /purchase\_summary/investor-purchase-summary

**Method:** GET  
**Description:** Provides summary of total amount invested by each investor.

* Optional Filters: start\_date, end\_date (format: YYYY-MM-DD)
* Pagination: Not supported

**Sample cURL:**

curl -X 'GET' \  
 'http://127.0.0.1:5000/purchase\_summary/investor-purchase-summary' \  
 -H 'accept: application/json'

**Sample Response:**

{  
 "data": [  
 {  
 "pan": "DCSPP9502J",  
 "investor\_name": "Sheethal Balaji",  
 "total\_invested\_amount": 2499.88  
 },  
 {  
 "pan": "AVNPN8269J",  
 "investor\_name": "Nivedhitha Rajagopal",  
 "total\_invested\_amount": 3591.82  
 }  
 ]  
}

### Endpoint 2: /purchase\_summary/investor\_summary

**Method:** GET  
**Description:** Provides list of mutual funds purchased by each investor along with total amount and units.

* Optional Filters: start\_date, end\_date
* Pagination: Not supported

**Sample cURL:**

curl -X 'GET' \  
 'http://127.0.0.1:5000/purchase\_summary/investor\_summary' \  
 -H 'accept: application/json'

**Sample Response:**

{  
 "data": [  
 {  
 "investor\_name": "Priyavarshini Damodaran",  
 "mutual\_fund\_summary": [  
 {  
 "mutual\_fund\_name": "Kotak Gold Fund - Growth (Regular Plan)",  
 "total\_purchase\_amount": 1999.9,  
 "total\_units": 54.2  
 }  
 ]  
 }  
 ]  
}

### Endpoint 3: /purchase\_summary/scheme\_summary

**Method:** GET  
**Description:** Provides summary by scheme, aggregating purchase details.

* Optional Filters: start\_date, end\_date
* Pagination: Not supported

**Sample cURL:**

curl -X 'GET' \  
 'http://127.0.0.1:5000/purchase\_summary/scheme\_summary' \  
 -H 'accept: application/json'

**Sample Response:**

{  
 "data": [  
 {  
 "scheme": "Kotak Gold Fund - Growth (Regular Plan)",  
 "total\_purchase\_amount": 1999.9,  
 "total\_units": 54.2  
 }  
 ]  
}

### Endpoint 4: /purchase\_summary/mutual\_fund/summary

**Method:** GET  
**Description:** Returns overall mutual fund statistics across all investors and schemes.

* Optional Filters: Not applicable
* Pagination: Not supported

**Sample cURL:**

curl -X 'GET' \  
 'http://127.0.0.1:5000/purchase\_summary/mutual\_fund/summary' \  
 -H 'accept: application/json'

**Sample Response:**

{  
 "total\_amount\_invested": 13499.4,  
 "total\_units\_purchased": 168.28,  
 "average\_nav\_per\_fund": [  
 {  
 "scheme": "SBI Small Cap Fund Regular Growth",  
 "total\_amount": 9999.5,  
 "total\_units": 59.62,  
 "average\_nav": 167.67  
 },  
 {  
 "scheme": "ICICI Prudential Ultra Short Term Fund - Growth",  
 "total\_amount": 1500,  
 "total\_units": 54.46,  
 "average\_nav": 27.55  
 }  
 ]  
}

### Note from Author:

During development, a CSV was provided for bulk insertion. All aspects of the CSV data mapping, validation, and transformation were successfully implemented, including integration into the database using SQLAlchemy. However, due to varying date formats in the CSV, date processing was skipped in the final testing phase. For testing purposes, the code handling date conversion was removed, and the data was posted manually without date fields to validate the endpoint responses effectively.