

## Project Mini Apps Money Monitoring

### DDL

```
CREATE TABLE SAVING_LOG(  
    ID_TRANSACTION VARCHAR(10) NOT NULL,  
    TRANSACTION_DATE DATE,  
    TRANSACTION_TYPE VARCHAR(25),  
    TRANSACTION_AMOUNT VARCHAR(25),  
    TRANSACTION_CAT VARCHAR(30),  
    SAVING_TYPE VARCHAR(10),  
    CONSTRAINT PK_SAVING_LOG PRIMARY KEY(ID_TRANSACTION)  
);
```

```
CREATE TABLE SAVING_CATEGORY(  
    ID_CATEGORY_SAVING VARCHAR(50) NOT NULL,  
    SAVING_NAME VARCHAR(255),  
    MAX_OUTCOME VARCHAR(255),  
    CONSTRAINT PK_SAVING_CATEGORY PRIMARY KEY(ID_CATEGORY_SAVING)  
);
```

```
CREATE TABLE CATEGORY(  
    CATEGORY_NAME VARCHAR(30),  
    CATEGORY_TYPE VARCHAR(15),  
    CONSTRAINT PK_CATEGORY PRIMARY KEY(CATEGORY_NAME)  
);
```

```
CREATE TABLE WITHDRAW(  
    ID_WITHDRAWAL VARCHAR(10) NOT NULL,  
    WITHDRAWAL_AMNT VARCHAR(255),  
    CAT_EXPENSES VARCHAR(25),  
    SAVING_TYPE VARCHAR(100),  
    TRANSACTION_DATE DATE  
    CONSTRAINT PK_WITHDRAW PRIMARY KEY(ID_WITHDRAWAL)  
);
```

```
CREATE TABLE DEPOSIT(  
    ID_DEPOSIT VARCHAR(10) NOT NULL,  
    DEPOSIT_AMNT VARCHAR(255),  
    CAT_EXPENSES VARCHAR(25),  
    SAVING_TYPE VARCHAR(100),  
    TRANSACTION_DATE DATE  
    CONSTRAINT PK_DEPOSIT PRIMARY KEY(ID_DEPOSIT)  
);
```

## DML

### Insert to table category

```
INSERT INTO CATEGORY (CATEGORY_NAME, CATEGORY_TYPE) VALUES ('Food & Beverage', 'Expense');
INSERT INTO CATEGORY (CATEGORY_NAME, CATEGORY_TYPE) VALUES ('Bills', 'Expense');
INSERT INTO CATEGORY (CATEGORY_NAME, CATEGORY_TYPE) VALUES ('Shopping', 'Expense');
INSERT INTO CATEGORY (CATEGORY_NAME, CATEGORY_TYPE) VALUES ('Transportation', 'Expense');
INSERT INTO CATEGORY (CATEGORY_NAME, CATEGORY_TYPE) VALUES ('Health & Fitness', 'Expense');
INSERT INTO CATEGORY (CATEGORY_NAME, CATEGORY_TYPE) VALUES ('Education', 'Expense');
INSERT INTO CATEGORY (CATEGORY_NAME, CATEGORY_TYPE) VALUES ('Entertainment', 'Expense');
INSERT INTO CATEGORY (CATEGORY_NAME, CATEGORY_TYPE) VALUES ('Gift', 'Expense');
INSERT INTO CATEGORY (CATEGORY_NAME, CATEGORY_TYPE) VALUES ('Insurance', 'Expense');
INSERT INTO CATEGORY (CATEGORY_NAME, CATEGORY_TYPE) VALUES ('Investment', 'Expense');
INSERT INTO CATEGORY (CATEGORY_NAME, CATEGORY_TYPE) VALUES ('Other Expense', 'Expense');
INSERT INTO CATEGORY (CATEGORY_NAME, CATEGORY_TYPE) VALUES ('Salary', 'Income');
INSERT INTO CATEGORY (CATEGORY_NAME, CATEGORY_TYPE) VALUES ('Incoming Transfer', 'Income');
INSERT INTO CATEGORY (CATEGORY_NAME, CATEGORY_TYPE) VALUES ('Other Income', 'Income');
```

URL prefix : <http://localhost:2011/>

No	Feature	Description	Route	Method	Example Request	Example Response
1	InsertSavingCategory	Menambahkan kategori tabungan yang diinginkan	insertSavingCategory	POST	Body: { "savingName": "Tabungan Rog Ally", "maxOutcome": "2000000" }	{ "data": { "idCategorySaving": "SV5", "savingName": "Tabungan Rog Ally", "maxOutcome": "2000000" }, "message": "Added successfully", }

						"status": true }
2	EditSaving Category	Merubah atau update kategori tabungan yang telah dibuat	editSavi ngCateg ory	PUT	Body: { "transactionId":"SV1",  "savingName":"Tabungan iPhone",  "maxOutcome":"2000000" }	{ "data": { "idCategorySaving": "SV1", "savingName": "Tabungan iPhone", "maxOutcome": "2000000" }, "message": "Edit Succesful", "status": true }
3	GetAllSavi ng	Menampilkan semua jenis tabungan yang sudah dibuat	getAllSa ving	GET		{ "data": [ { "idCategorySaving": "SV1", "savingName": "Tabungan iPhone", "maxOutcome": "2000000" }, { "idCategorySaving": "SV2", "savingName": "Tabungan Motor", "maxOutcome": "2000000" }, { "idCategorySaving": "SV3", "savingName": "Tabungan HP", "maxOutcome": "1000000" } ], "message": "Get all data success", "status": true }
4	DeleteCat egorySavi ng	Menghapus jenis tabungan yang sudah dibuat	deleteC ategory Saving	DELET E	Body: { "transactionId":"SV5" }	{ "message": "SV5 Deleted successfully", "status": true }
5	GetAllCat egory	Menampilkan semua kategori transaksi	getAllCa tegory	GET		{ "data": [ { "categoryName": "Bills", }

		(pemasukan dan pengeluaran)				<pre>      "categoryType": "Expense"     },     {       "categoryName": "Education",       "categoryType": "Expense"     },     {       "categoryName": "Entertainment",       "categoryType": "Expense"     },     {       "categoryName": "Food &amp; Beverage",       "categoryType": "Expense"     },     {       "categoryName": "Gift",       "categoryType": "Expense"     },     {       "categoryName": "Health &amp; Fitness",       "categoryType": "Expense"     },     {       "categoryName": "Incoming Transfer",       "categoryType": "Income"     },     {       "categoryName": "Insurance",       "categoryType": "Expense"     },     {       "categoryName": "Investment",       "categoryType": "Expense"     },     {       "categoryName": "Other Expense",       "categoryType": "Expense"     }   ],   "message": "All data category found",   "status": true }</pre>
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6	Get Category By Type	Menampilkan semua kategori transaksi berdasarkan tipenya (pengeluaran/pemasukan)	getCategoryByType	GET	Body: { "categoryType": "Income" }	{ "data": [ { "categoryName": "Incoming Transfer", "categoryType": "Income" }, { "categoryName": "Other Income", "categoryType": "Income" }, { "categoryName": "Salary", "categoryType": "Income" } ], "message": "All Income category found", "status": true }
7	Insert Withdrawal	Input transaksi pengeluaran	insertWithdrawal	POST	Body: { "savingName": "Tabungan iPhone", "transactionAmnt": "20000", "withdrawCategory": "Food & Beverage", "categoryType": "Expense" }	Jika jenis tabungan yang dipilih ada: { "data": { "idWithdrawal": "WITHDRAW3", "withdrawalAmnt": "20000", "catExpenses": "FOOD & BEVERAGE", "savingType": "EXPENSE", "transactionDate": "02-01-2024" }, "message": "Withdrawal Success", "status": true } Jika jenis tabungan yang dipilih tidak ada: { "data": null, "message": "Saving category for Tabungan Mobil not found", "status": true }
8	Edit Withdrawal	Melakukan perubahan/update	editWithdrawal	PUT	Body: {	{ "data": { "idWithdrawal":

		terhadap transaksi pengeluaran yang sudah dibuat			<pre>"transactionId":"WITHDRAW3", "savingName":"Tabungan Iphone", "transactionAmnt":"25000", "withdrawCategory":"Food &amp; Beverage", "categoryType":"Expense" }</pre>	<pre>"WITHDRAW3", "withdrawalAmnt": "25000", "catExpenses": "FOOD &amp; BEVERAGE", "savingType": "EXPENSE", "transactionDate": "02-01-2024" }, "message": "Edit withdrawal success", "status": true }</pre>
9	Insert Deposit	Input transaksi pemasukan	insertDeposit	POST	Body: <pre>{ "savingName":"Tabungan Motor", "transactionAmnt":"2000000", "depositCategory":"Salary", "categoryType":"Income" }</pre>	Jika jenis tabungan yang dipilih ada: <pre>{ "data": { "idDeposit": "DEPOSIT2", "depositAmnt": "2000000", "catExpenses": "SALARY", "savingType": "INCOME", "transactionDate": "01-01-2024" }, "message": "Deposit success", "status": true }</pre> Jika jenis tabungan yang dipilih tidak ada: <pre>{ "data": null, "message": "Saving category for Tabungan Mobil not found", "status": true }</pre>
10	Edit Category	Melakukan perubahan/ update terhadap transaksi pemasukan yang sudah dibuat	editDeposit	PUT	Body: <pre>{ "transactionId":"DEPOSIT2", "savingName":"Tabungan Motor", "transactionAmnt":"270000", "depositCategory":"Salary", "categoryType":"Income" }</pre>	<pre>{ "data": { "idDeposit": "DEPOSIT2", "depositAmnt": "270000", "catExpenses": "SALARY", "savingType": "INCOME", "transactionDate": "01-01-2024" }, "message": "Edit deposit success", "status": true }</pre>

11	Get total saving	Menghitung total nominal tabungan	getTotal Saving	GET		{ "data": { "totalSaving": "9870000" }, "message": "Total Saving", "status": true }
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