

# Bank Project [Backend]			
There is a prototype of the BackEnd Bank's Core Services data.			
Data consist of clients, accounts, products, accounts, transactions and managers			

* [ApiDoc Link] (http://localhost:8080/swagger-ui/index.html)			
* [JACOCO Link] (http://localhost:63342/BankProj/target/site/jacoco/index.html)			

## Database structure			
### Table Client (Bank's Clients table)			
Column name	Type	Description	
-----	-----	-----	
id	int	id key of row - unique, not null, primary key	
manager_id	binary(16)	manager id	
status	int(1)	client's status	
tax_code	varchar(20)	client's TAX code (external ID)	
first_name	varchar(50)	client's name	
last_name	varchar(50)	client's surname	
email	varchar(60)	client's e-mail	
address	varchar(80)	client's address	
phone	varchar(20)	client's phone	
created_at	timestamp	timestamp of row creation	
updated_at	timestamp	timestamp of last update	
### Table Account (Bank's accounts table)			
Column name	Type	Description	
-----	-----	-----	

id	binary(16)	id key of row - unique, not null, primary key	
client_id	binary(16)	client id	
name	varchar(100)	a name of account	
type	int(1)	account type	
status	int(1)	status of tne account	
balance	numeric(15,2)	balance of the account in currency	
currency_code	int(2)	account currency code	
created_at	timestamp	timestamp of row creation	
updated_at	timestamp	timestamp of last update	

### Table Product (Sets of Bank's available Products)			
Column name	Type	Description	
-----	-----	-----	
-----	-----	-----	
id	int	id key of row - unique, not null, primary key	
manager_id	int	manager id	
name	varchar(70)	product's name	
status	int(1)	product's status	
currency_code	int(2)	currency of product	
interest_rate	numeric(6,4)	interest rate of product	
limit	numeric(15,2)	limit of credit a product (0 - no limit, 0 < - limit which can be used)	
created_at	timestamp	timestamp of row creation	
updated_at	timestamp	timestamp of last update	
### Table Agreement (Bank's - Client's Agreement table)			
Column name	Type	Description	
-----	-----	-----	
-----	-----	-----	
id	int	id key of row - unique, not null, primary key	
account_id	binary(16)	client's account	
product_id	int	product id (table product)	
interest_rate	numeric(6,4)	current interest rate of agreement	
status	int	agreement's status	
sum	numeric(15,2)	amount of agreement	
created_at	timestamp	timestamp of row creation	
updated_at	timestamp	timestamp of last update	
### Table Transaction (Bank's Product table)			
Column name	Type	Description	
-----	-----	-----	
-----	-----	-----	
id	binary(16)	id key of row - unique, not null, primary key	
debit_account_id	binary(16)	transaction's debit account	
credit_account_id	binary(16)	transaction's credit account	
type	int(1)	transaction type	
amount	numeric(12,2)	transaction amount in the account currency	
description	varchar(255)	description of transaction	

created_at timestamp timestamp of row creation
Table Manager (Bank's managers)
Column name Type Description
----- ----- -----
--
id int id key of row - unique, not null, primary key
first_name varchar(50) manager's name
last_name varchar(50) manager's surname
status int manager's status
description varchar(255) description of transaction
created_at timestamp timestamp of row creation