Demo

By KT

Currency converter app

USD, EUR, HUF, CHF, JPY
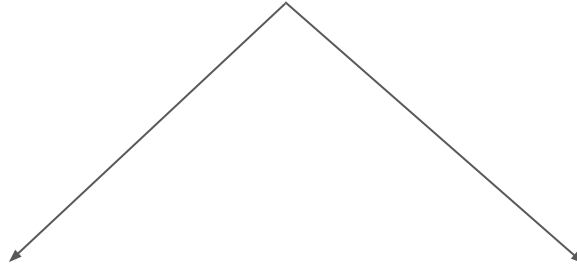
Currency converter app

Currency

Wallets

First step

Currency


```java
@Data
@NoArgsConstructor
@AllArgsConstructor
@Builder
@Entity
public class Currency {

    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private Long id;


    public String name;


    public String symbol;
```

Wallet

```java
@Data
@NoArgsConstructor
@AllArgsConstructor
@Document(collection = "wallet")
public class Wallet {

    public String owner;

    public double eur;
    public double usd;
    public double huf;
    public double jpy;
    public double chf;

}
```

Spring: application.properties

```
# postgresql
spring.datasource.jdbc-url= jdbc:postgresql://localhost:5432/CurrencyConverter
spring.datasource.username= postgres
spring.datasource.password= password
spring.datasource.driver-class-name=org.postgresql.Driver


# mongoDB
spring.data.mongo.walletdb.uri=mongodb://localhost:27017/CurrencyConverterWalletMongo
```

New config classes: **CurrencyDBConfig**

```java
@Configuration
@EnableTransactionManagement
@EnableJpaRepositories(
        entityManagerFactoryRef = "currencyEntityManagerFactory",
        transactionManagerRef = "currencyTransactionManager",
        basePackages = {"com.kt.currencyconverter.currency"}
)
public class CurrencyDBConfig {
```

<u>@Beans:</u>
DataSource
LocalContainerEntityManagerFactoryBean
PlatformTransactionManager

New config classes: **WalletDBConfig**

```java
@Configuration
@EnableMongoRepositories(basePackages = {"com.kt.currencyconverter.wallet"},
        mongoTemplateRef = "walletdbMongoTemplate"
)
public class WalletDBConfig {
```

@Beans:
MongoProperties
MongoTemplate
MongoDatabaseFactory

id [PK] bigint	name character varying (255)	symbol character varying (255)
1	1	Euro	EUR
2	2	US dollar	USD
3	3	forint	HUF
4	4	Japanese yen	JPY
5	5	Swiss franc	CHF

pgAdmin Version 4
Management Tools for PostgreSQL

CurrencyConverterWalletMongo.wallet

Documents   Aggregations   Schema   Explain Plan   Indexes   Validation

FILTER   { field: 'value' }

ADD DATA ▾   ⬆   VIEW   ☰   {}   ⊞

```
_id: ObjectId('6323547dd142465287767995')
owner: "Mr.Moneybags"
eur: 100
usd: 150
huf: 500
jpy: 250
chf: 200
_class: "com.kt.currencyconverter.wallet.Wallet"
```

```
_id: ObjectId('6323547dd142465287767996')
owner: "Tomi"
eur: 1
usd: 2
huf: 5
jpy: 4
chf: 3
_class: "com.kt.currencyconverter.wallet.Wallet"
```

mongoDB Compass

Thank you!