



МАППИНГ

ИСПОЛЬЗОВАТЬ НЕЛЬЗЯ ИЗБЕГАТЬ



```
@Value
@Builder(toBuilder = true)
public class ApplicationReportDto {
    UUID applicationId;
    UUID personId;
    String phone;
    String source;
    LocalDateTime createdAt;
    String type;
}
```

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@Value
@Builder(toBuilder = true)
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    UUID applicationId;
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```

```
public class ApplicationDto {
    UUID applicationId;
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    String channel;
    LocalDateTime createdAt;
    String type;
}
```

```
@Value
@Builder(toBuilder = true)
public class ApplicationReportDto {
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    String phone;
    String source;
    LocalDateTime createdAt;
    String type;
}
```

```
public class ApplicationApiBo {
    UUID applicationId;
    UUID personId;
    String channel;
    LocalDateTime createdAt;
    String phone;
    String type;
}
```

```
public class ApplicationDto {
    UUID applicationId;
    UUID personId;
    String channel;
    LocalDateTime createdAt;
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```
@Value
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public class ApplicationApiBo {
    UUID applicationId;
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    String channel;
    LocalDateTime createdAt;
    String phone;
    String type;
}
```

```
public class ApplicationDto
    UUID applicationId;
    UUID personId;
    String channel;
    LocalDateTime createdAt;
    String type;
}
```

```
public class Application {
    @Id
    @GeneratedValue(generator = "uuid2")
    @GenericGenerator(name = "uuid2"
        , strategy = "uuid2")
    @Column(name = "application_id")
    UUID applicationId;

    @Column(name = "application_type"
        , insertable = false
        , updatable = false)
    String type;

    @Column(name = "person_id")
    UUID personId;

    @Column(name = "channel")
    String channel;

    @Column(name = "created_at")
    LocalDateTime createdAt;

    @Column(name = "phone")
    String phone;
}
```



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    UUID applicationId;
    UUID personId;
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    LocalDateTime createdAt;
    String phone;
    String type;
}
```

```
public class ApplicationDto
    UUID applicationId;
    UUID personId;
    String channel;
    LocalDateTime createdAt;
    String type;
}
```

```
public class Application {
    @Id
    @GeneratedValue(generator = "uuid2")
    @GenericGenerator(name = "uuid2",
        strategy = "uuid2")
    @Column(name = "application_id")
    UUID applicationId;

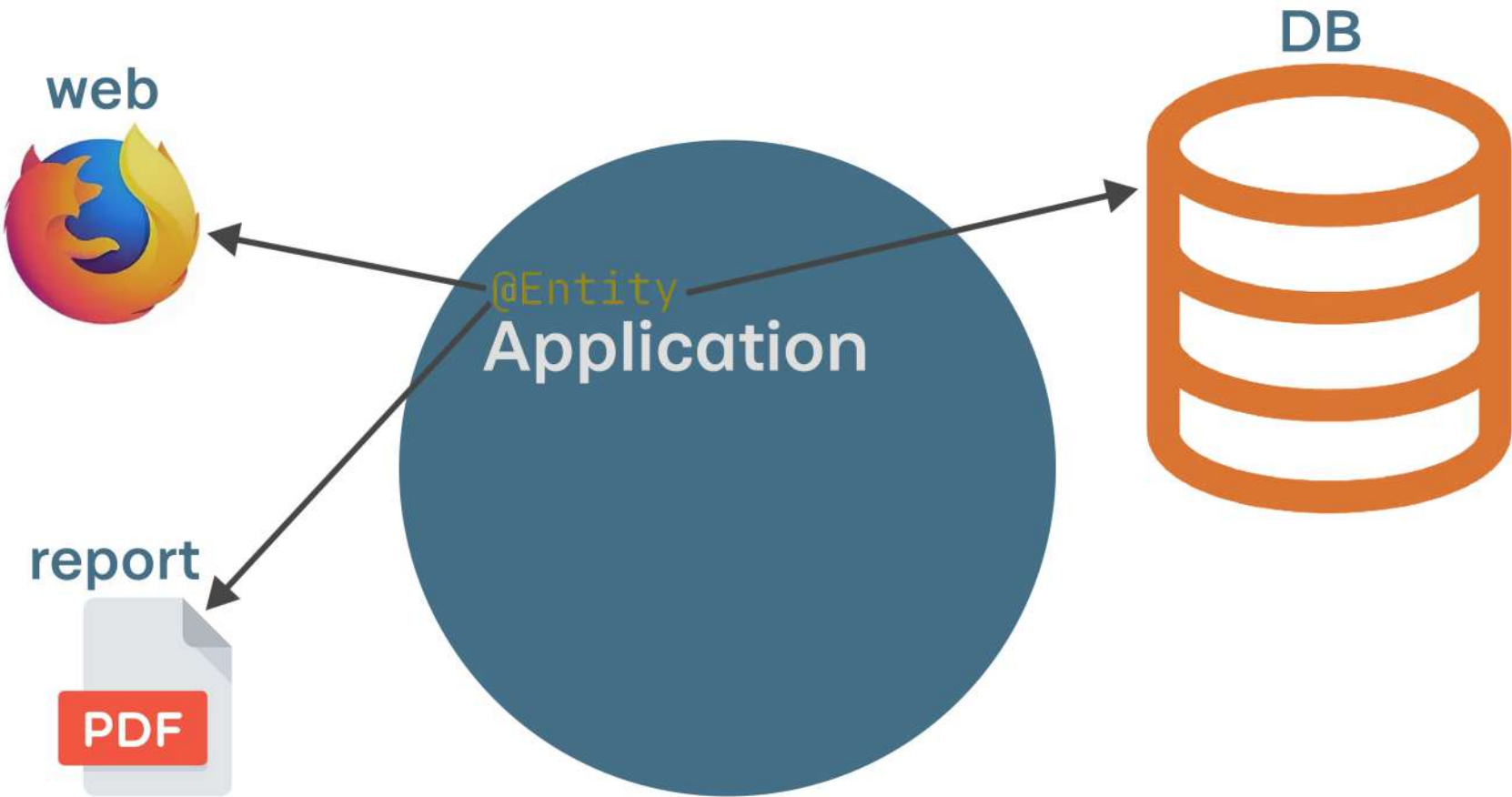
    @Column(name = "application_type",
        insertable = false,
        updatable = false)
    String type;

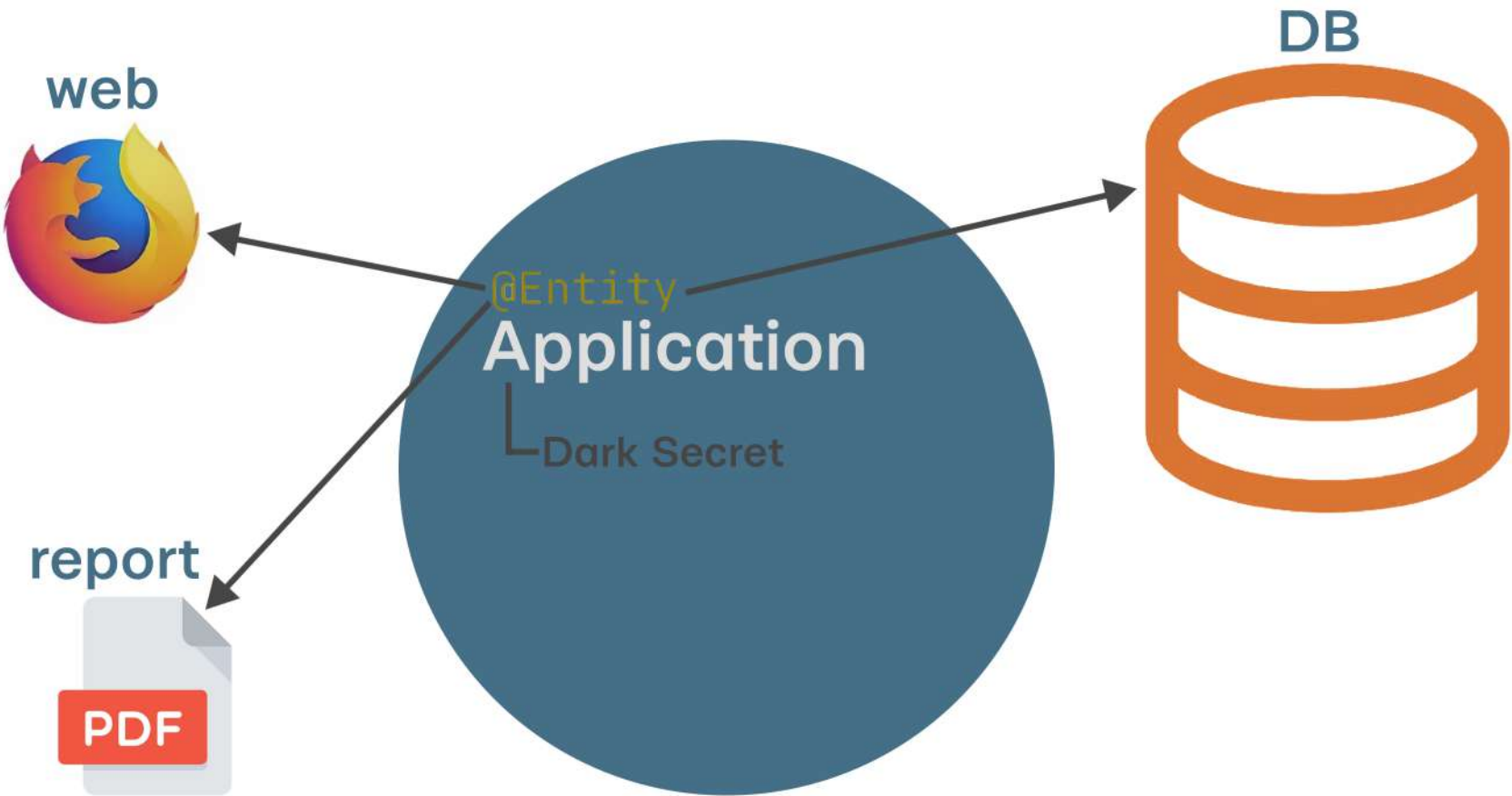
    @Column(name = "person_id")
    UUID personId;

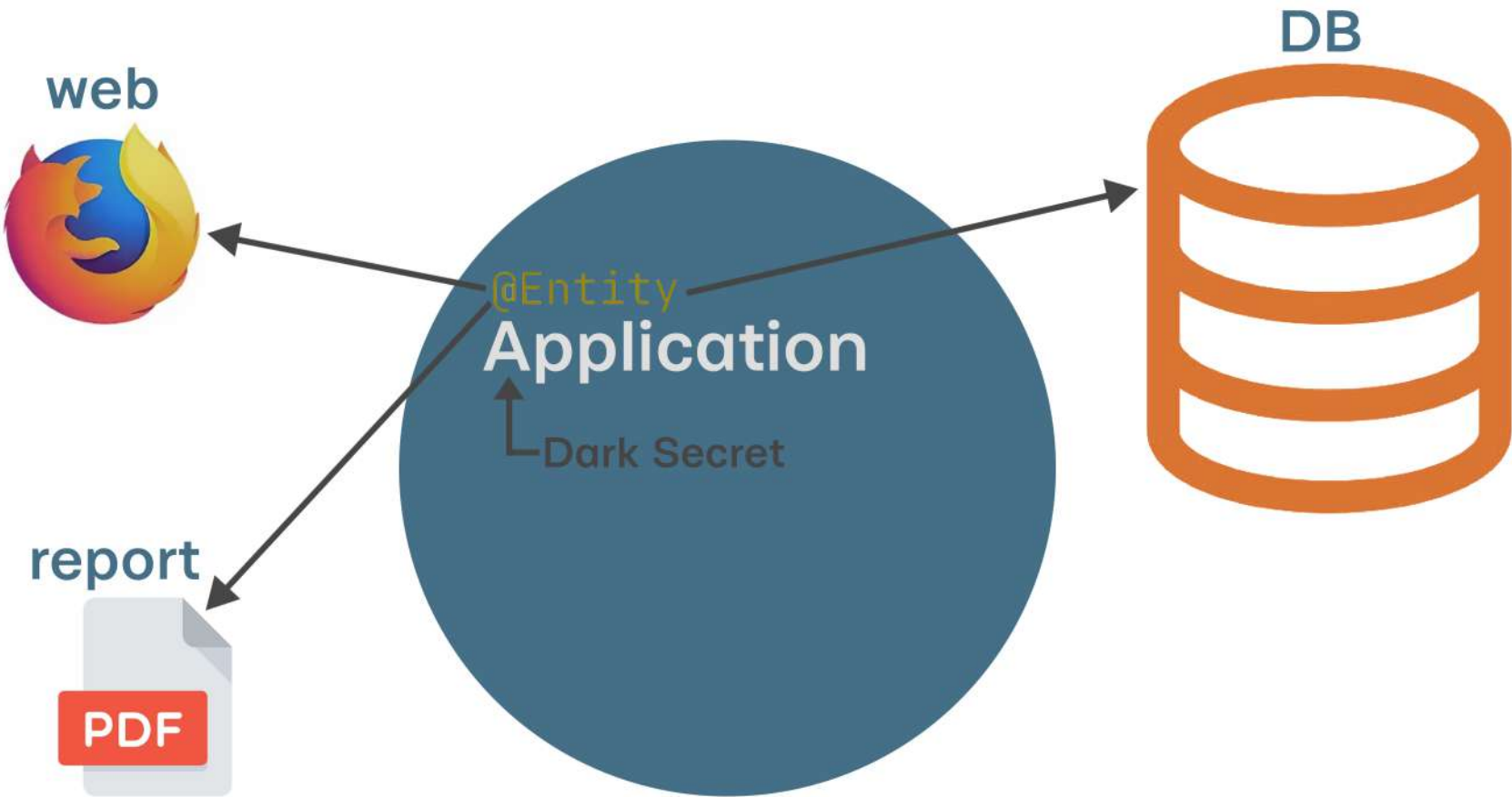
    @Column(name = "channel")
    String channel;

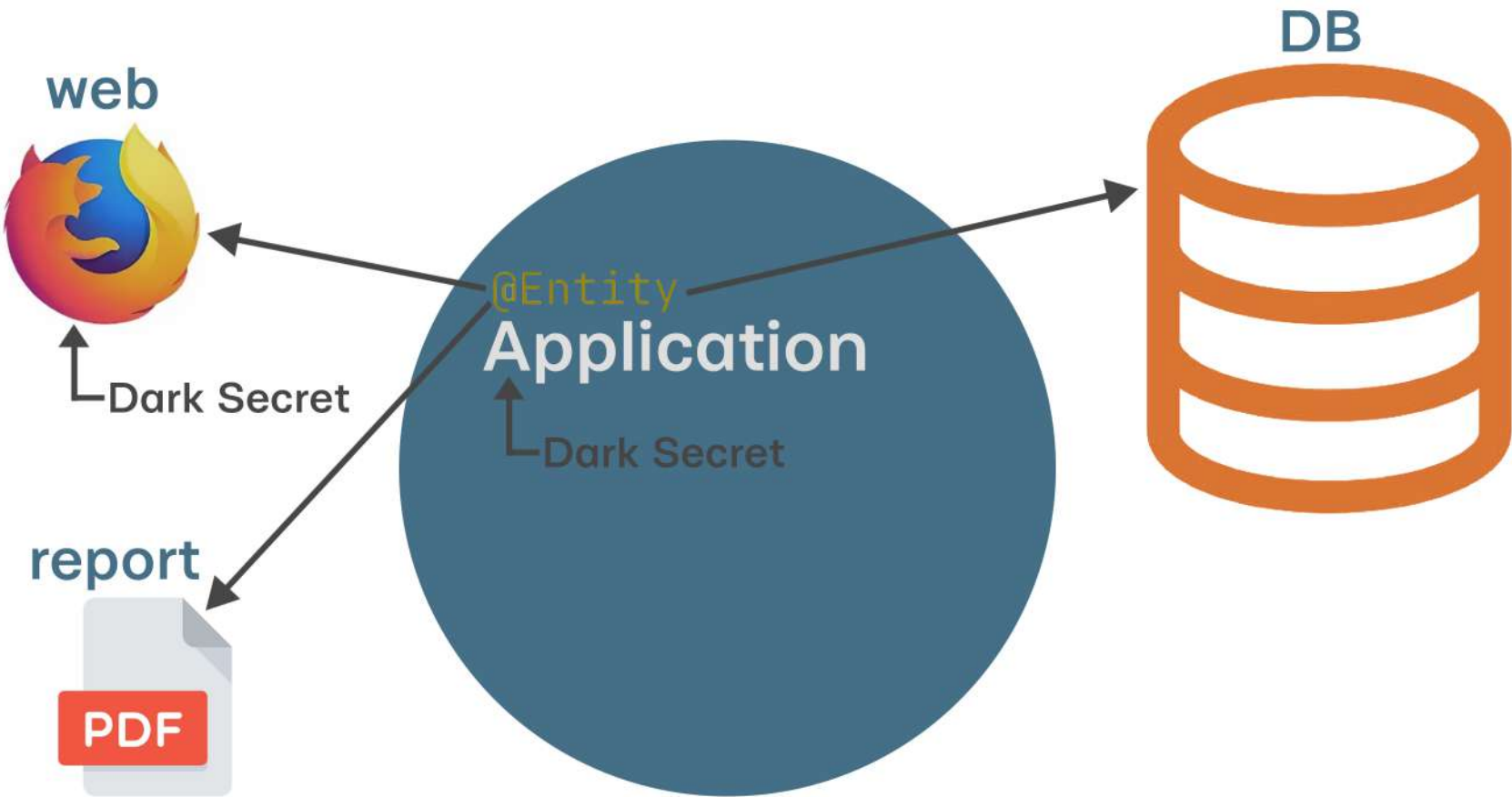
    @Column(name = "created_at")
    LocalDateTime createdAt;

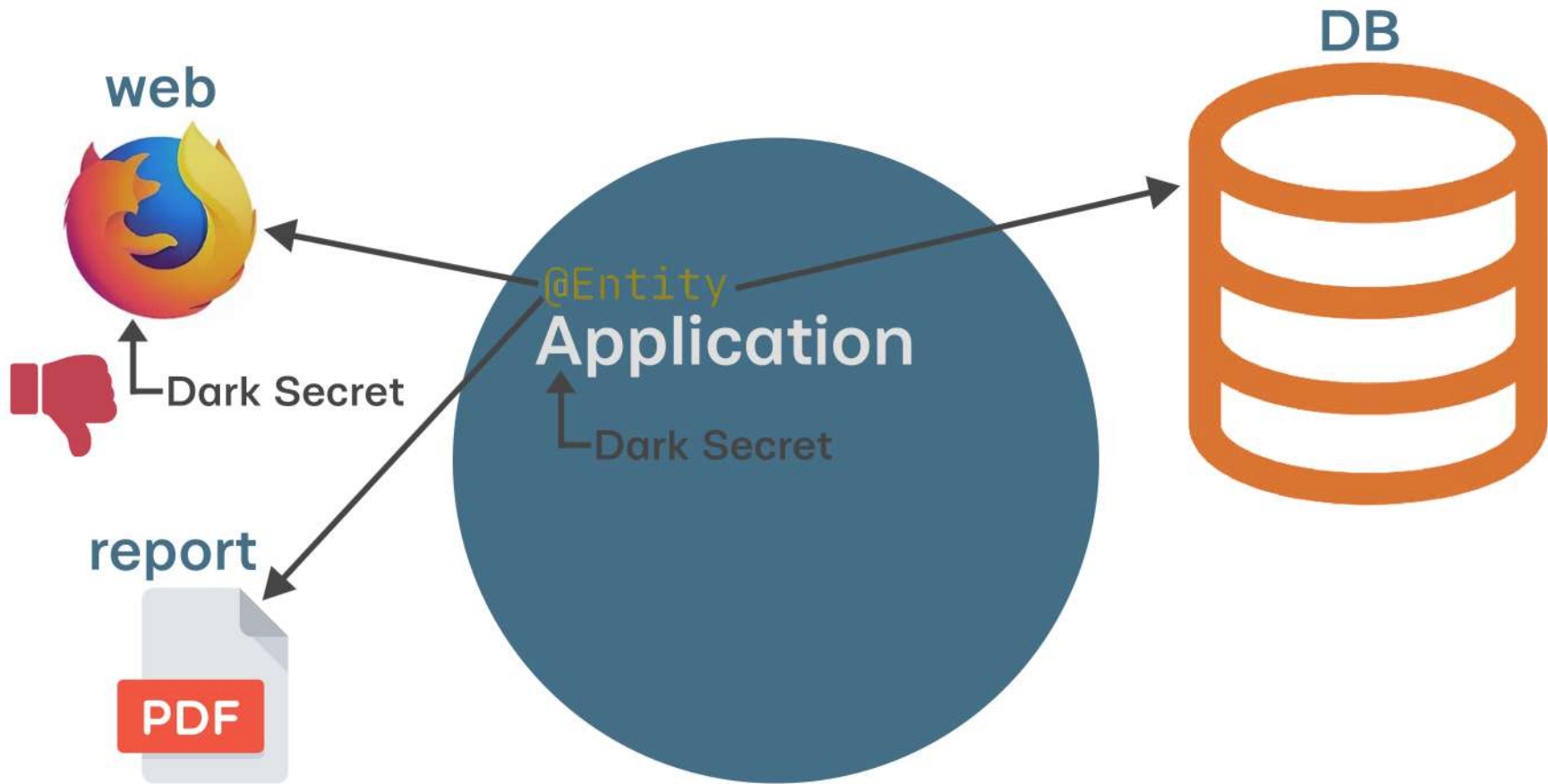
    @Column(name = "phone")
    String phone;
}
```

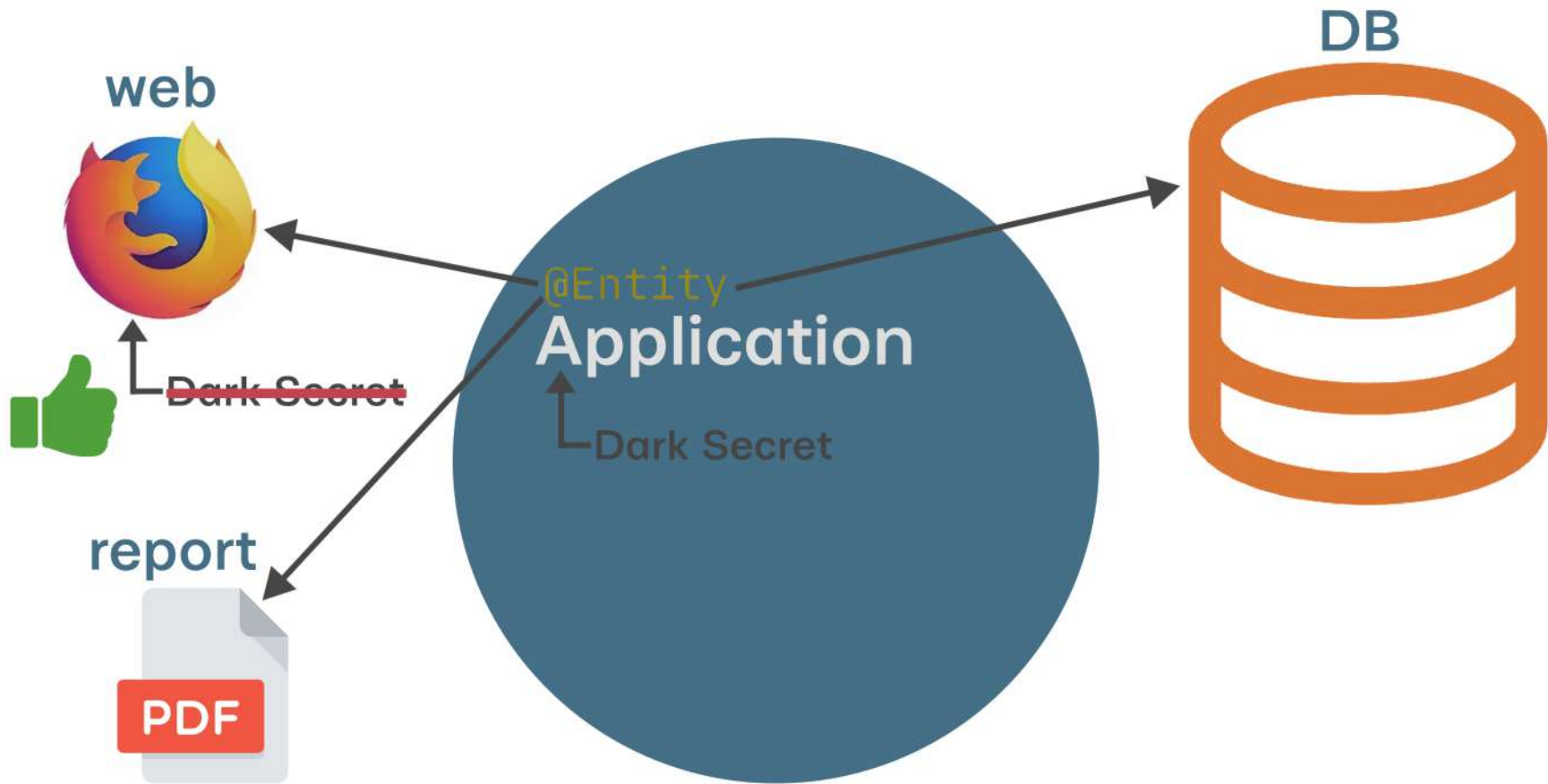


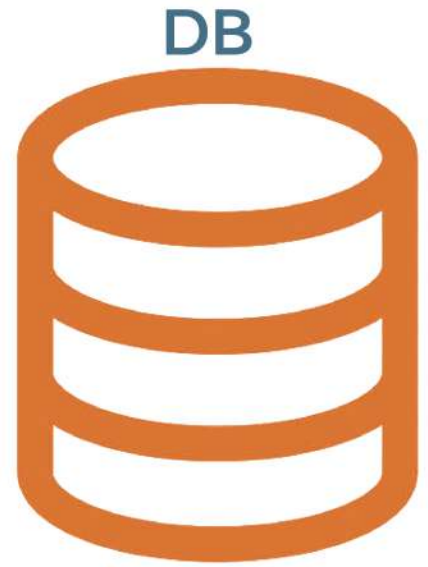
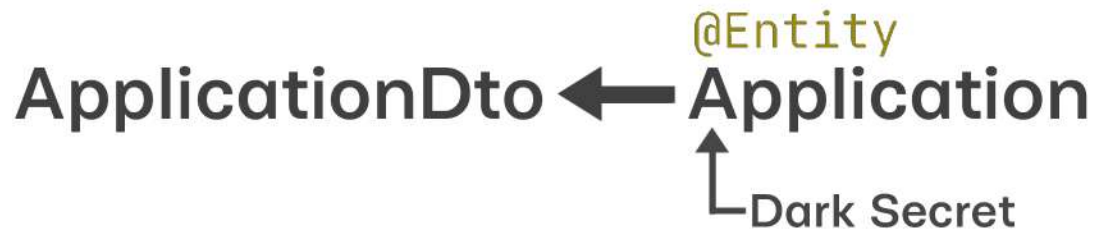














@JsonSerialize

ApplicationDto



@Entity

Application



Dark Secret

DB



А если никаких секретов нет?



@JsonSerialize

ApplicationDto



@Entity

Application



Dark Secret

DB



А если никаких секретов нет?

Есть преобразование в JSON



А если никаких секретов нет?

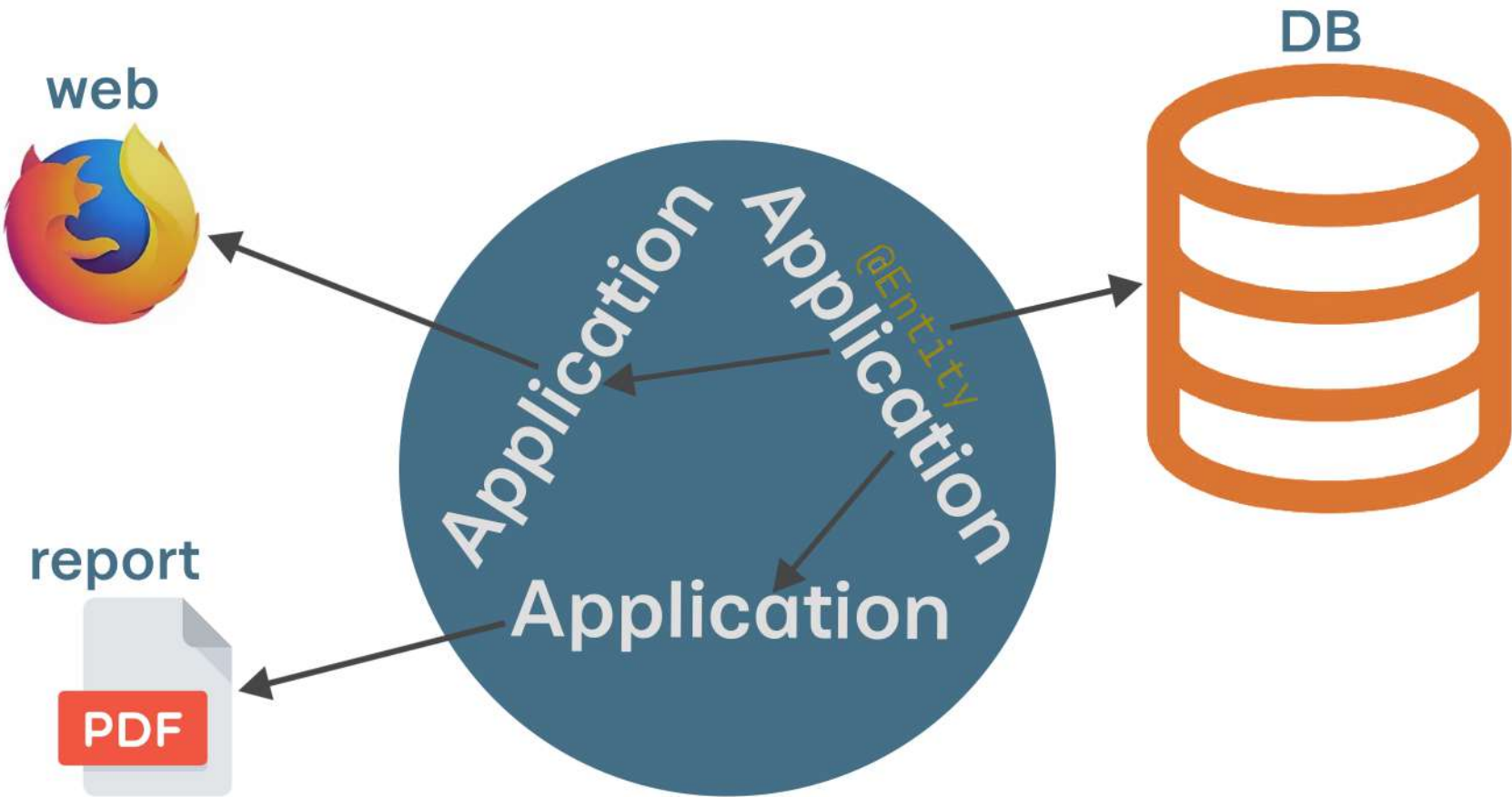
Есть преобразование в JSON

- 1) ApplicationDto нужен, чтобы контролировать какие данные уйдут наружу
- 2) ApplicationDto нужен, чтобы указать правила сериализации





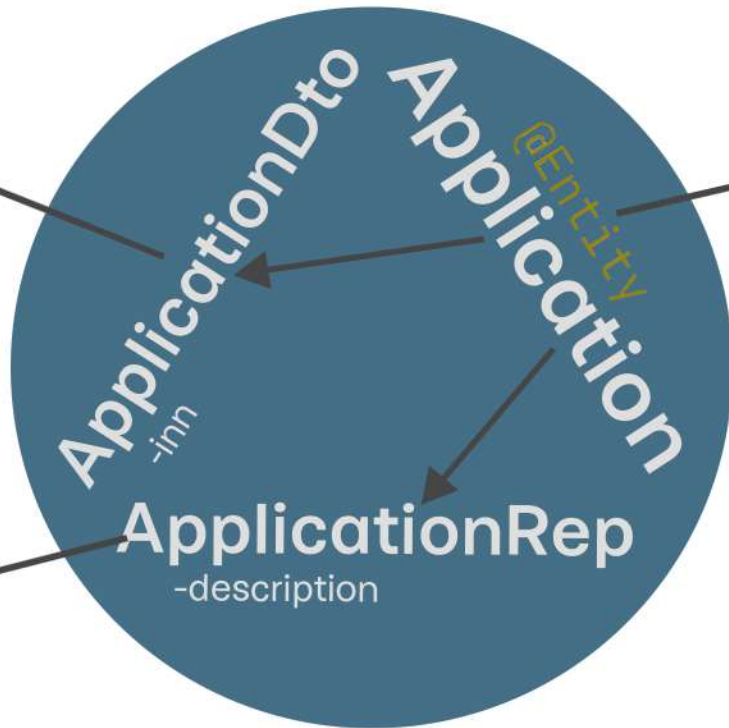




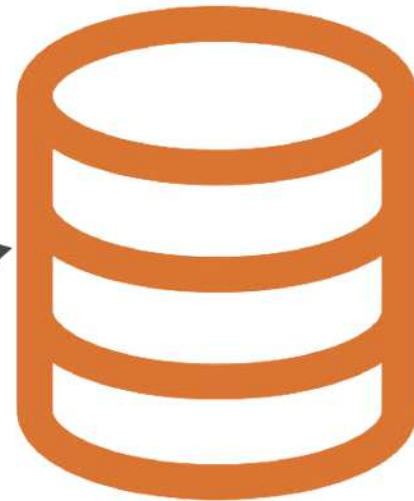
Стихийная архитектура



report



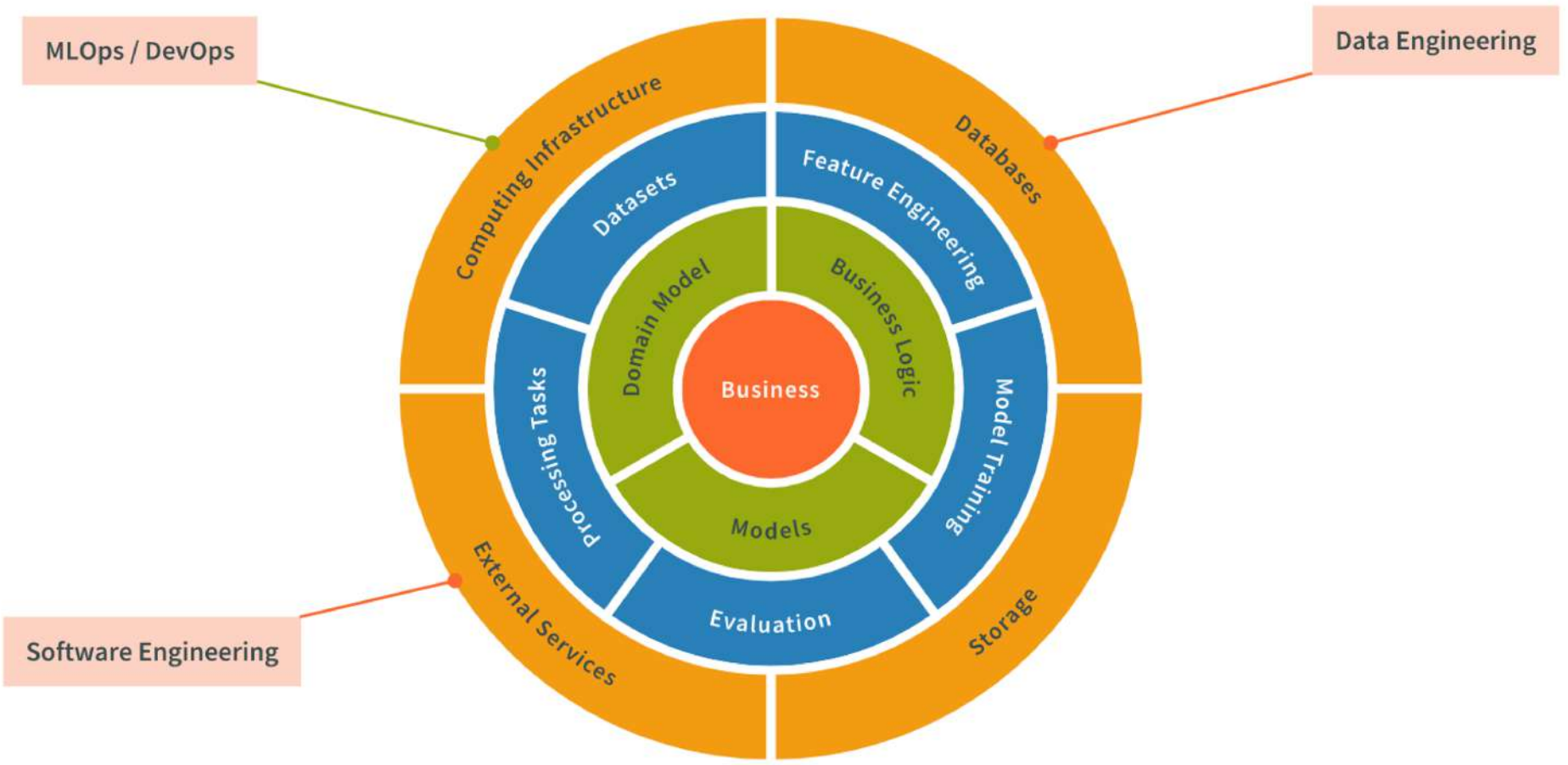
DB



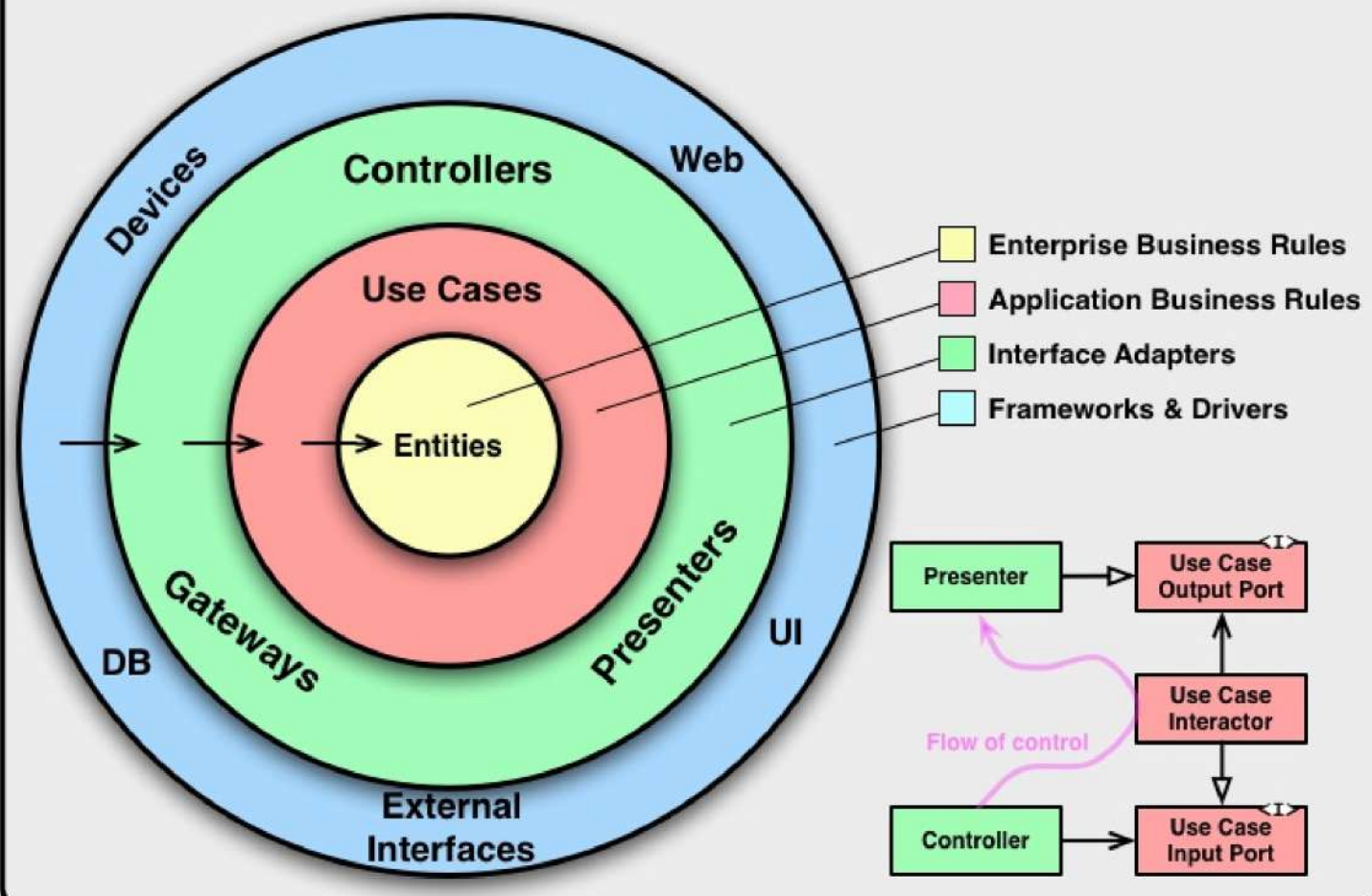
- java
 - com.evilcorp.lda
 - controllers
 - ApplicationController
 - dtos
 - ApplicationDto
 - ApplicationReportDto
 - entities
 - Application
 - mappers
 - ApplicationMapper
 - repositories
 - ApplicationRepository
 - services
 - impl
 - ApplicationReportServiceImpl
 - ApplicationServiceImpl
 - ApplicationReportService
 - ApplicationService
 - LdaApplication

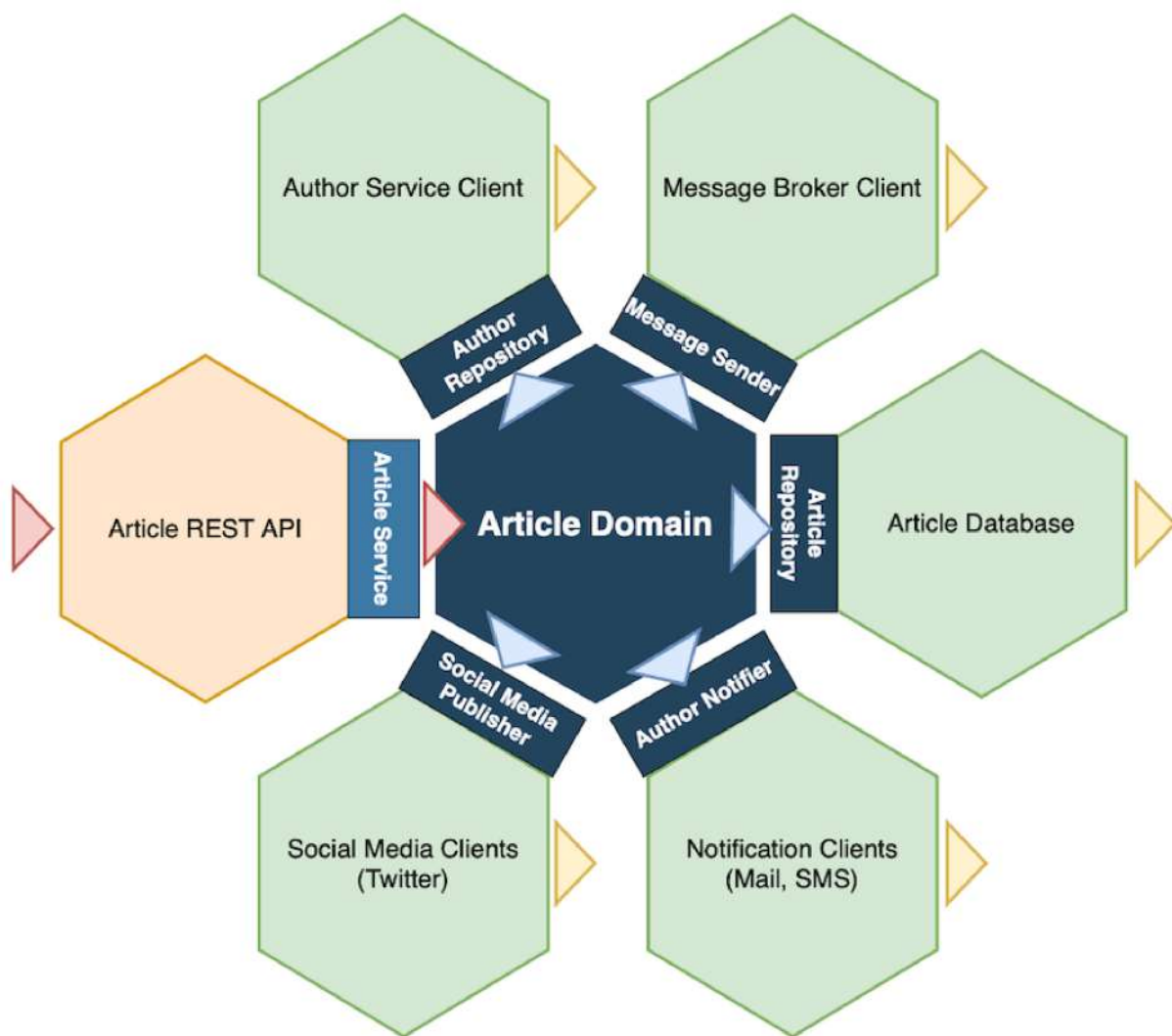
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 - ApplicationReportServiceImpl
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 - ApplicationService
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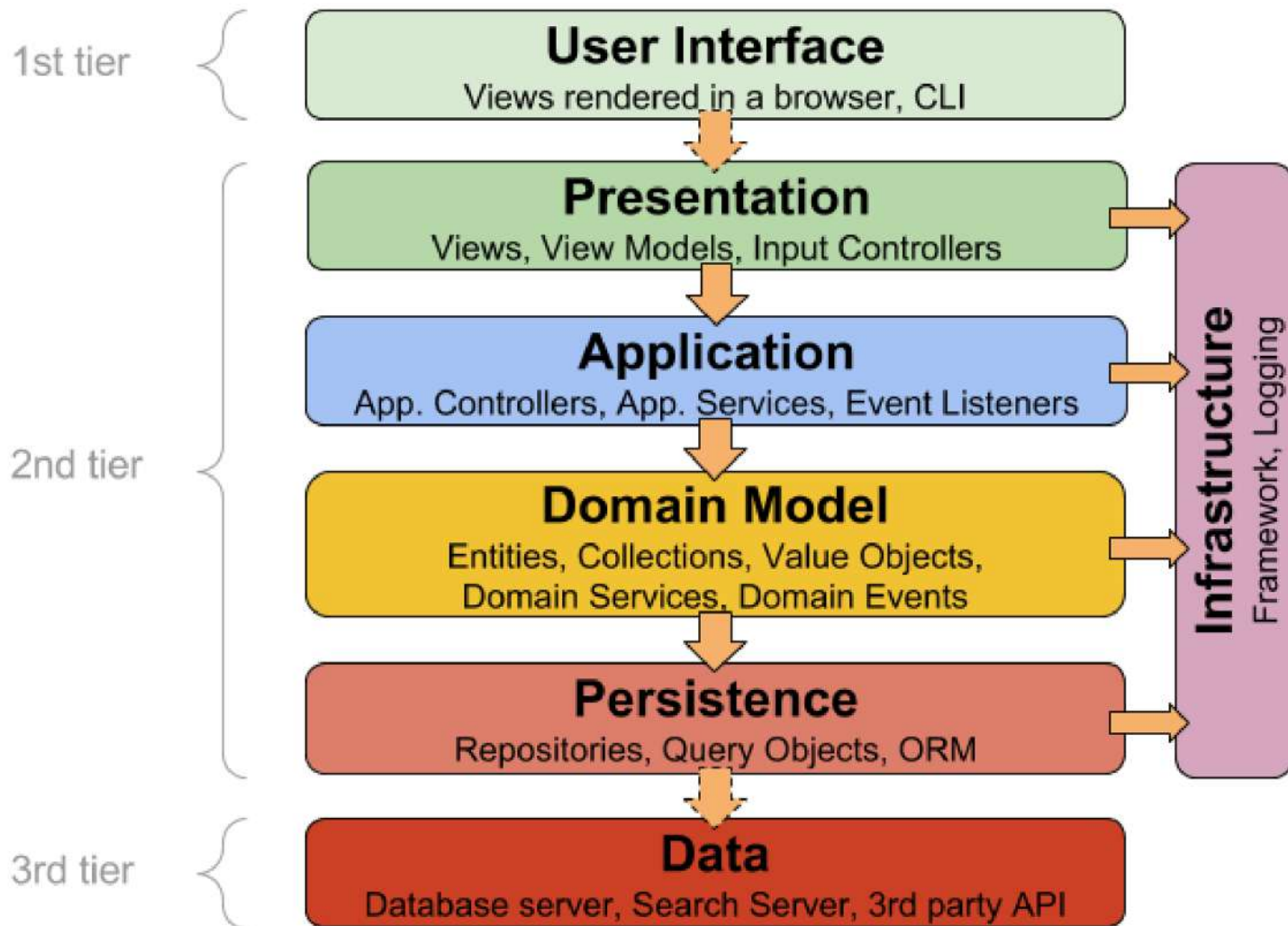


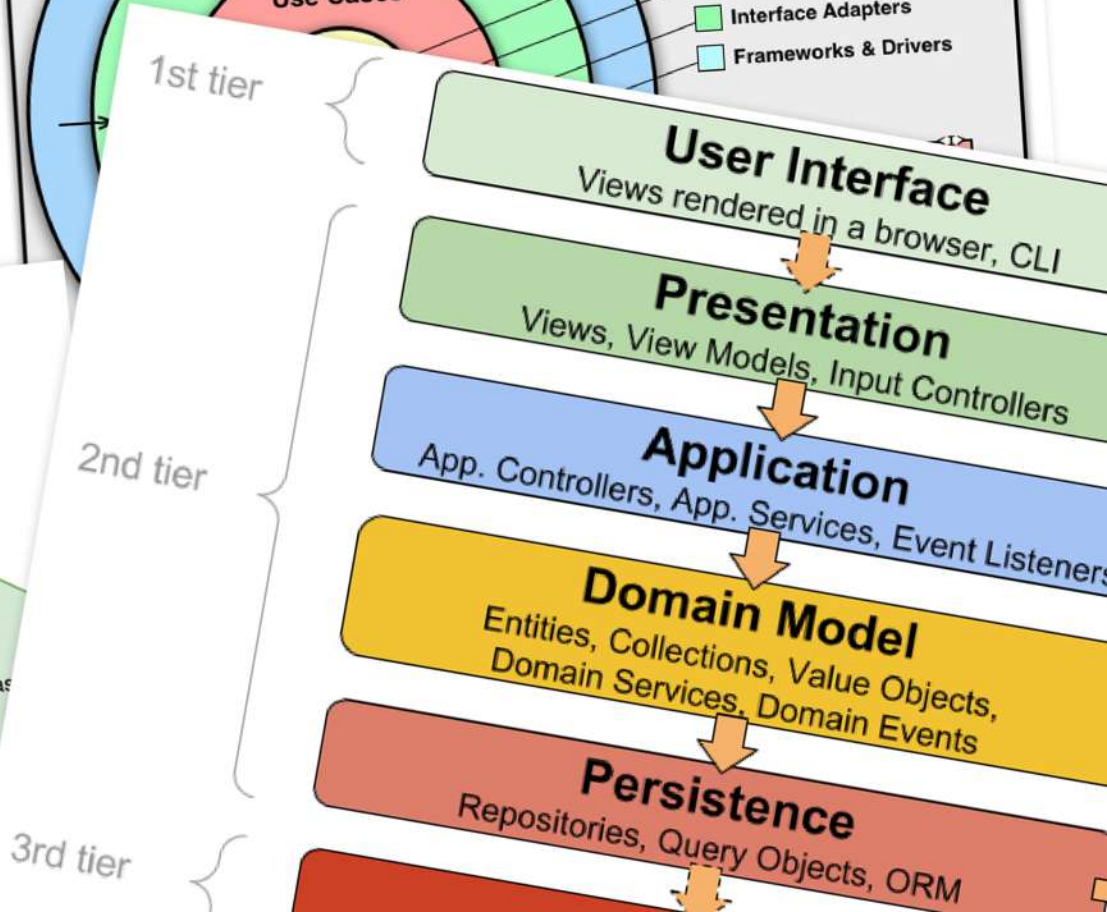
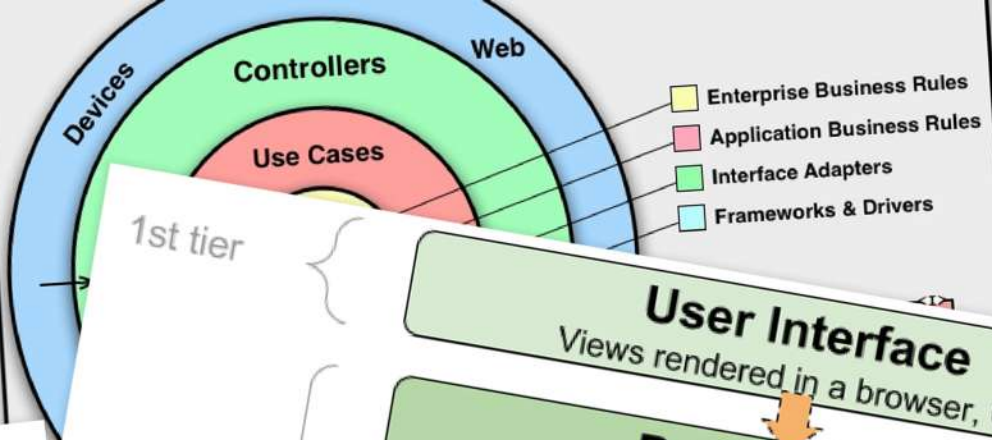


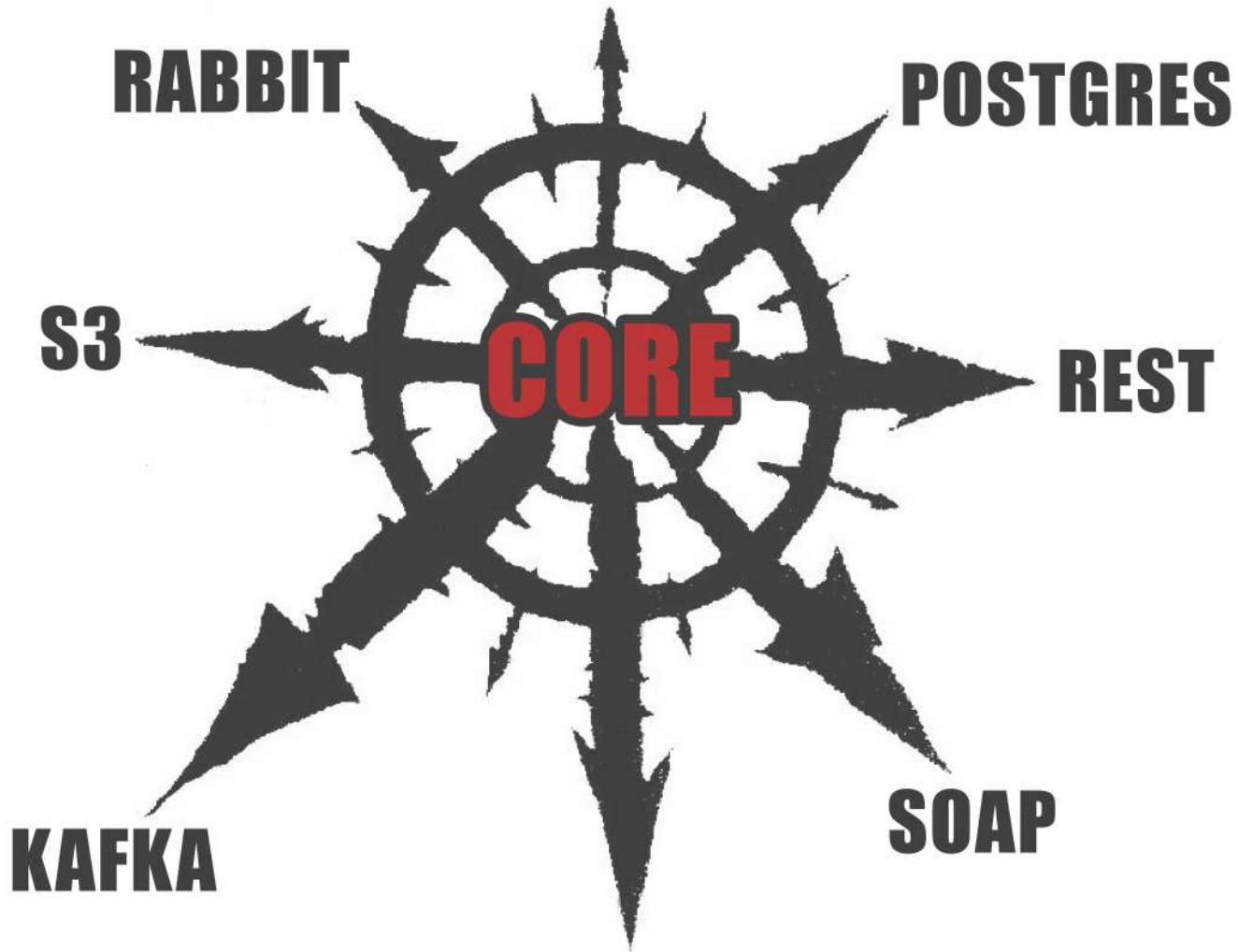
The Clean Architecture







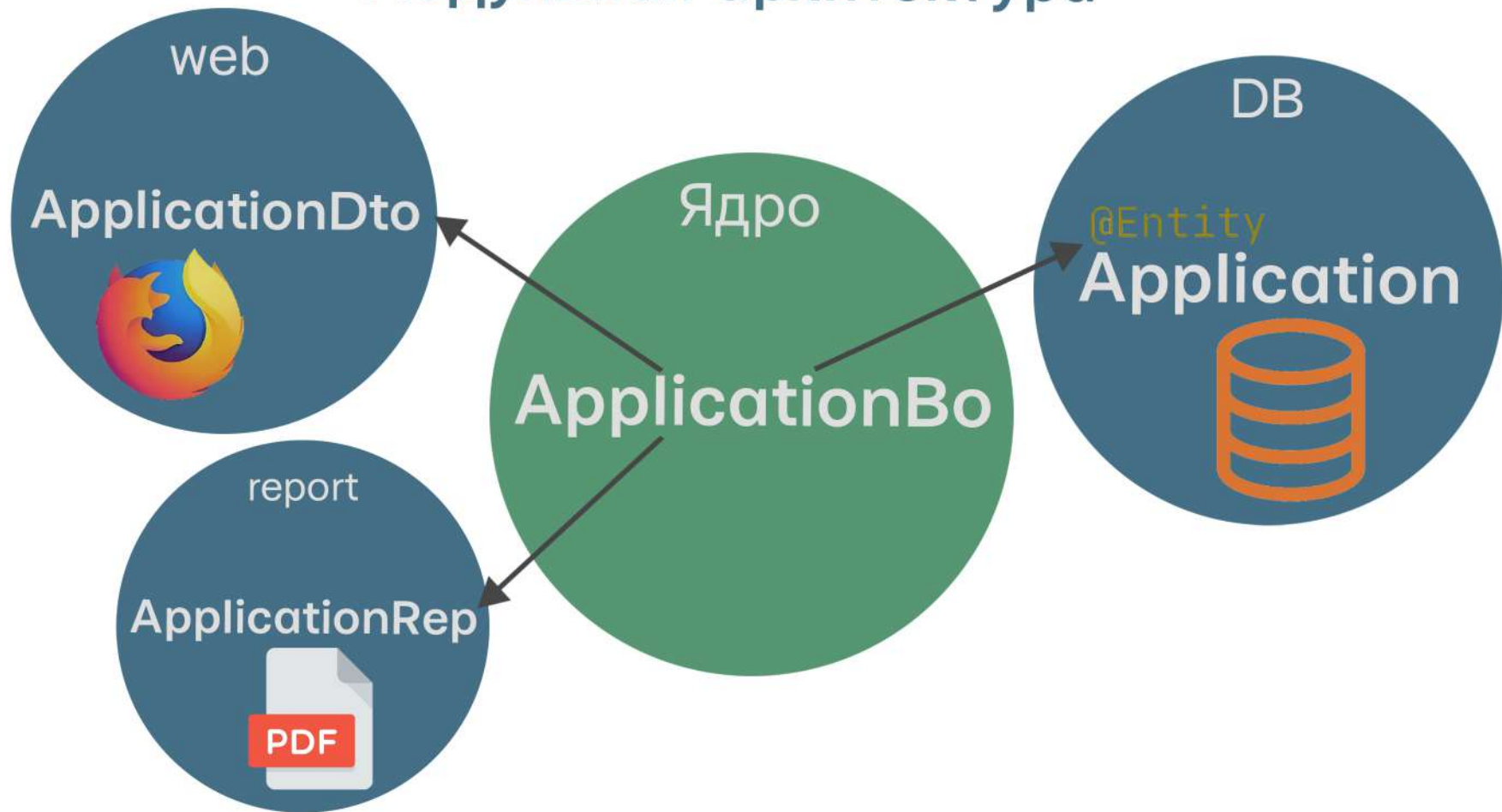




Модульная архитектура

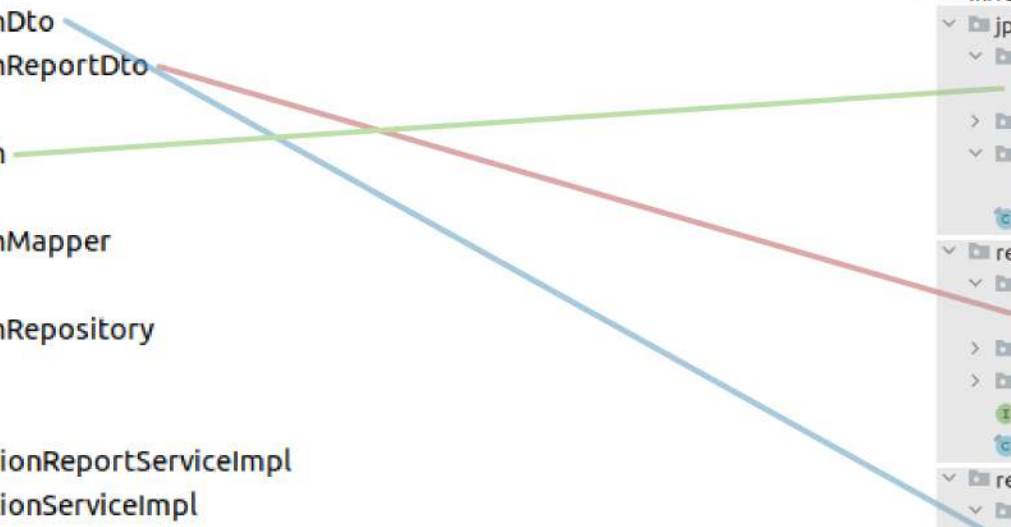


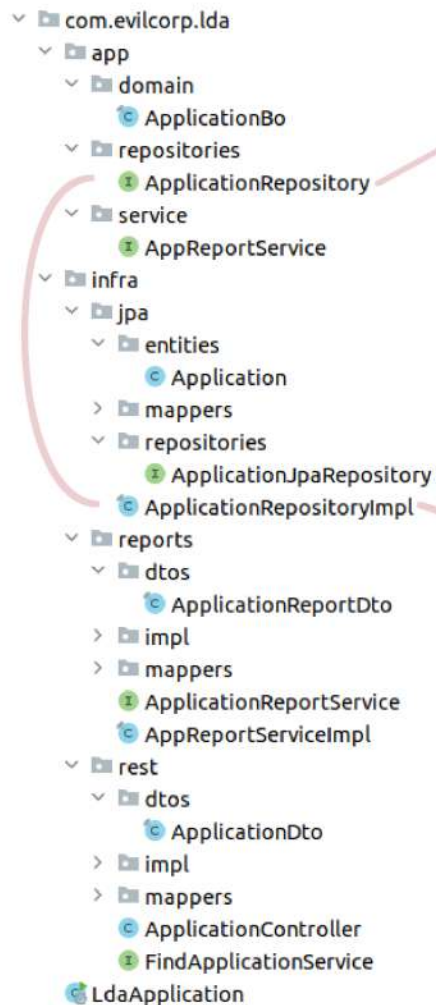
Модульная архитектура



- java
 - com.evilcorp.lda
 - controllers
 - ApplicationController
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 - entities
 - Application
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 - ApplicationReportServiceImpl
 - ApplicationServiceImpl
 - ApplicationReportService
 - ApplicationService
 - LdaApplication

- com.evilcorp.lda
 - app
 - domain
 - ApplicationBo
 - repositories
 - ApplicationRepository
 - service
 - AppReportService
 - infra
 - jpa
 - entities
 - Application
 - mappers
 - repositories
 - ApplicationJpaRepository
 - ApplicationRepositoryImpl
 - reports
 - dtos
 - ApplicationReportDto
 - impl
 - mappers
 - ApplicationReportService
 - AppReportServiceImpl
 - rest
 - dtos
 - ApplicationDto
 - impl
 - mappers
 - ApplicationController
 - FindApplicationService
 - LdaApplication





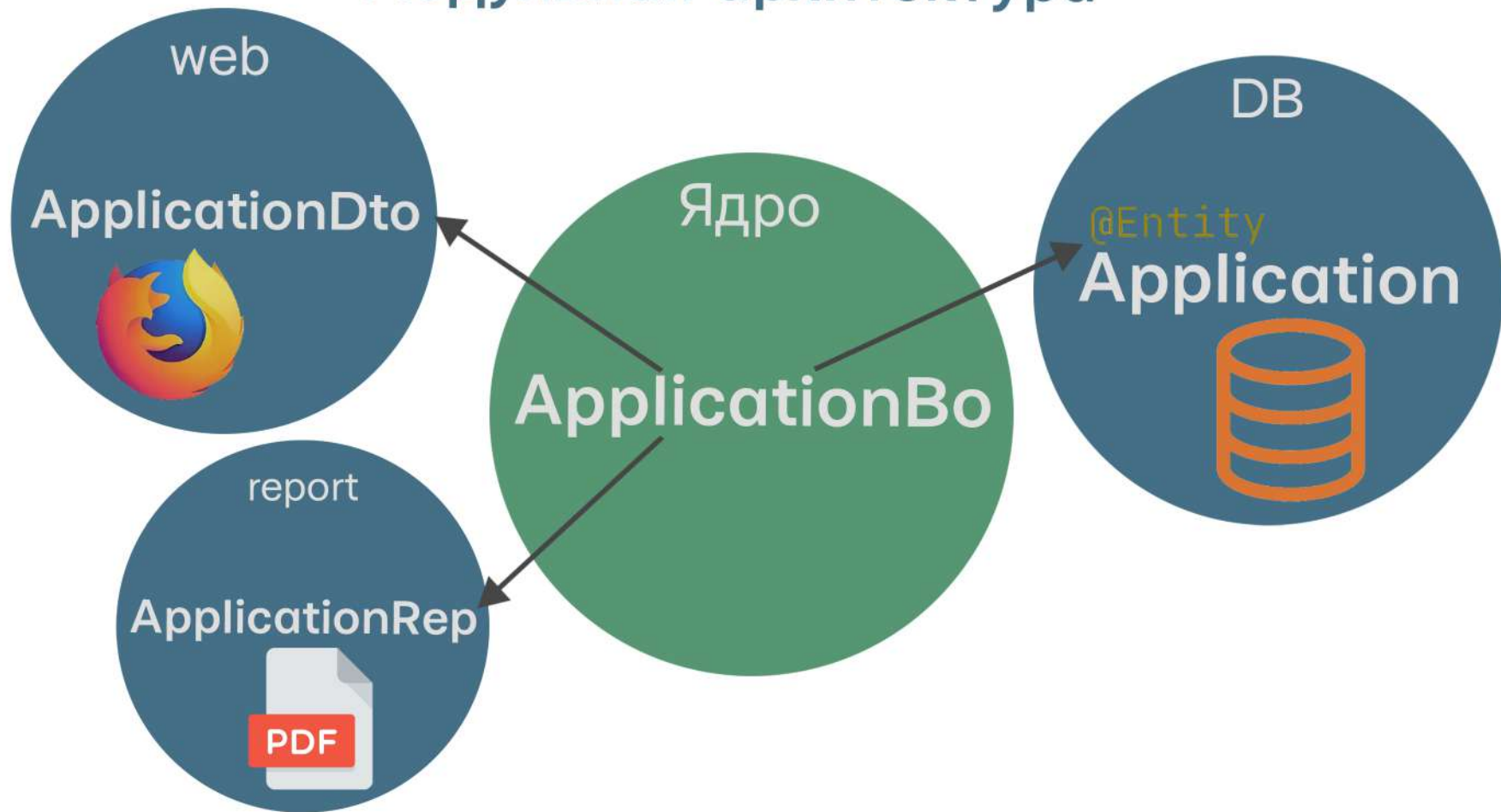
```
public interface ApplicationRepository {
    ApplicationBo findApplicationById(
        UUID applicationId
    );
}
```

```
@Value
@Service
public class ApplicationRepositoryImpl
    implements ApplicationRepository {

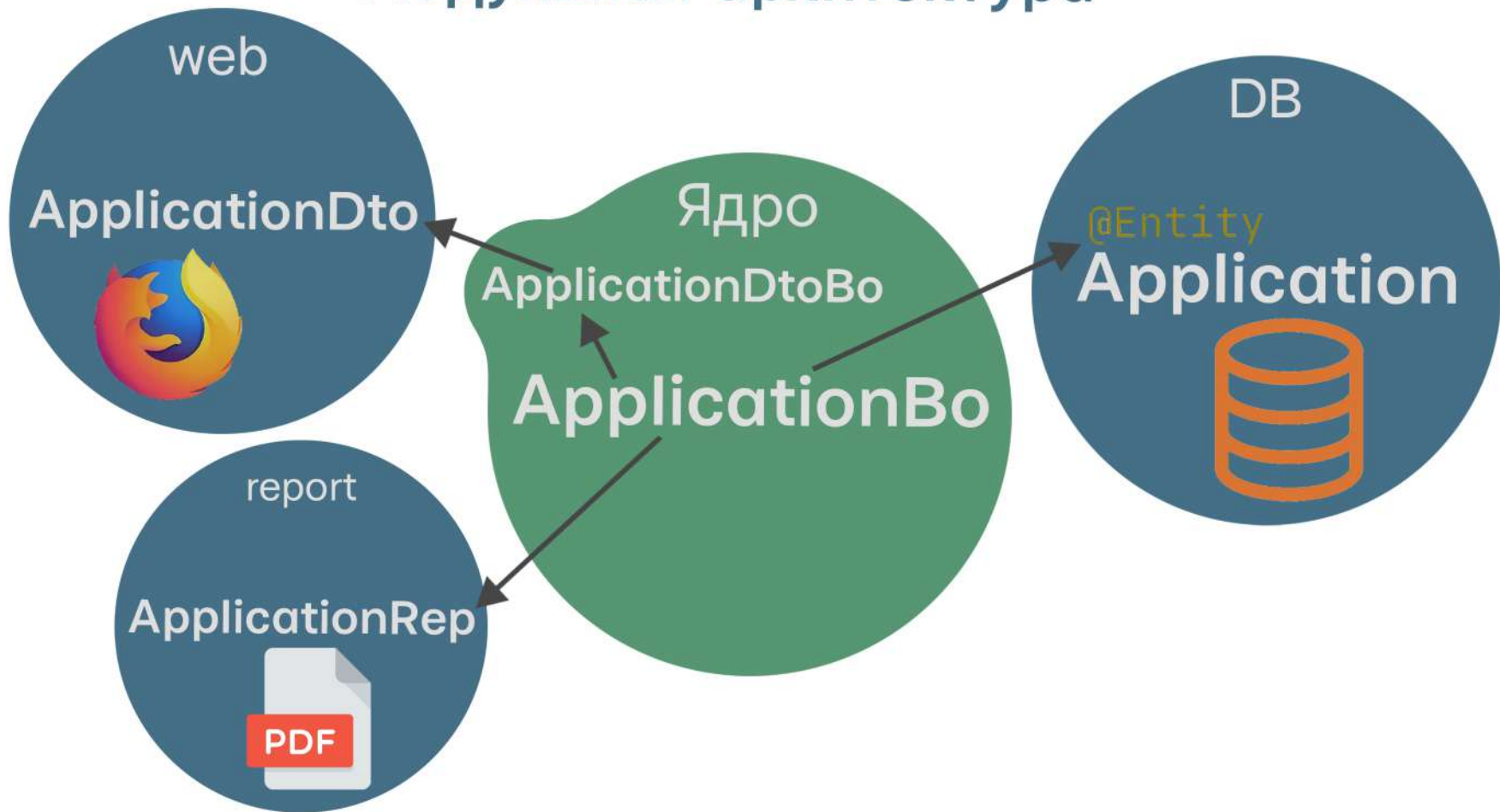
    ApplicationJpaRepository repository;
    ApplicationJpaMapper mapper;

    @Override
    public ApplicationBo findApplicationById(
        UUID applicationId
    ) {
        return mapper.toBo(
            repository.findById(applicationId)
                .orElseThrow());
    }
}
```

Модульная архитектура



Модульная архитектура





**У DTO могут быть
разные поля**



**У ДТО могут быть
разные поля**



**Поэтому надо их
мапить**



**У DTO могут быть
разные поля**



**Поэтому надо их
мапить**



**Да, сейчас наши DTO
идентичны**



**У DTO могут быть
разные поля**



**Поэтому надо их
мапить**



**Да, сейчас наши DTO
идентичны**



**Но мы закладываемся
на будущее**



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}
```

```
public class ApplicationDto {
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    UUID personId;
    String channel;
    LocalDateTime createdAt;
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```



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```

```
public class ApplicationDto
    UUID applicationId;
    UUID personId;
    String channel;
    LocalDateTime createdAt;
    String type;
}
```

```
public class Application {
    @Id
    @GeneratedValue(generator = "uuid2")
    @GenericGenerator(name = "uuid2"
        , strategy = "uuid2")
    @Column(name = "application_id")
    UUID applicationId;

    @Column(name = "application_type"
        , insertable = false
        , updatable = false)
    String type;

    @Column(name = "person_id")
    UUID personId;

    @Column(name = "channel")
    String channel;

    @Column(name = "created_at")
    LocalDateTime createdAt;

    @Column(name = "phone")
    String phone;
}
```

```
@Value
@Builder(toBuilder = true)
public class ApplicationReportDto {
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    UUID personId;
    String channel;
    LocalDateTime createdAt;
    String type;
}
```

```
public class Application {
    @Id
    @GeneratedValue(generator = "uuid2")
    @GenericGenerator(name = "uuid2",
        strategy = "uuid2")
    @Column(name = "application_id")
    UUID applicationId;

    @Column(name = "application_type",
        insertable = false,
        updatable = false)
    String type;

    @Column(name = "person_id")
    UUID personId;

    @Column(name = "channel")
    String channel;

    @Column(name = "created_at")
    LocalDateTime createdAt;

    @Column(name = "phone")
    String phone;
}
```

```
@Value
@Builder(toBuilder = true)
public class ApplicationReportDto {
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    String phone;
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}
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    UUID personId;
    String channel;
    LocalDateTime createdAt;
}
```

```
public class Application {
    @Id
    @GeneratedValue(generator = "uuid2")
    @GenericGenerator(name = "uuid2",
        strategy = "uuid2")
    @Column(name = "application_id")
    UUID applicationId;

    @Column(name = "application_type",
        insertable = false,
        updatable = false)
    String type;
}
```

YAGNI

```
@Value
@Builder
public
```

```
public class ApplicationDto
```

```
    UUID applicationId;
    UUID personId;
    String channel;
    LocalDateTime createdAt;
    String type;
}
```

KISS

```
@Column(name = "phone")
String phone;
```

```
public class Application {  
    @Id  
    @GeneratedValue(generator = "uuid2")  
    @GenericGenerator(name = "uuid2"  
        , strategy = "uuid2")  
    @Column(name = "application_id")  
    UUID applicationId;  
    @Column(name = "application_type")  
    String applicationType;  
    @Column(name = "channel_id")  
    Long channelId;  
    @Column(name = "channel")  
    String channel;  
    @Column(name = "created")  
    LocalDateTime createdAt;  
    @Column(name = "phone")  
    String phone;  
}
```

YAGNI

KISS


```
public class Application {
    // ...
    @Override(generator = "test")
    @Override(name = "test")
    + strategy = "test")
    @Override(name = "application_id")
    // ...
}

// ...

@Override
String phone;

@Override
LocalDateTime createdAt;

@Override
String phone;
```

YAGNI

Хабр

Парсинг — это законно?

Менеджмент

KISS

Хабр

Парсинг сайтов: как с точки зрения закона выглядит один из самых полезных ИТ-инструментов по миру (и в России)?

Маркетинг

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Хабр

Почему стоит научиться «парсить» сайты, или как написать свой первый парсер на Python

Разработка

Хабр

Реализация на Python многопоточной обработки данных для парсинга сайтов

Разработка

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Парсинг сайтов: как с точки зрения закона выглядит один из самых полезных ИТ-инструментов по миру (и в России)?

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Хабр

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Разработка

Хабр

Реализация на Python многопоточной
обработки данных для парсинга сайтов

Разработка

Хабр

Хабр

Как выбрать решение для парсинга
сайтов: классификация и большой
обзор программ, сервисов и фреймворков

Разработка

Менеджмент

это законно?

первый парсер на Python

Разработка

SS

Хабр

Реализация на Python многопоточной
обработки данных для парсинга сайтов

Хабр

Разработка

сайтов: как с точки зрения

парсинга

«Утечка» базы специалистов Хабр Карьеры

Сначала в телеграм-каналах, а потом и на Хабре [появилась информация](#) об утекших данных пользователей с сайта Хабр Карьеры. Считаю нужным дать более развёрнутый комментарий, а также рассказать о том, как устроены настройки приватности на сервисе.

TL;DR

Утечки не было, но информацию спарсили

Разработка

«Лучше ужасный конец,
чем ужас без конца»»



Фердинанд фон Шилль

*«Лучше, конечно,
помучаться»*



Фёдор Иванович Сухов

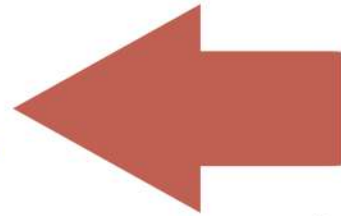
DTO

Живи быстро, гори ярко

Project
Lombok



```
@Value  
@Builder
```



Project
Lombok

```
public class ApplicationBo {  
    UUID applicationId;  
    UUID personId;  
    String channel;  
    LocalDateTime createdAt;  
    String phone;  
}
```

mapstruct



```
@Value
@Builder
public class ApplicationBo {
    UUID applicationId;
    UUID personId;
    String channel;
    LocalDateTime createdAt;
    String phone;
}
```

```
public class Application {
    @Id
    @Column(name = "application_id")
    UUID applicationId;

    @Column(name = "person_id")
    UUID personId;

    @Column(name = "channel")
    String channel;

    @Column(name = "created_at")
    LocalDateTime createdAt;

    @Column(name = "phone")
    String phone;
}
```

```
public interface ApplicationJpaMapper {
    ApplicationBo toBo(Application app);
}
```



```
public interface ApplicationJpaMapper {  
    ApplicationBo toBo(Application app);  
}
```

mapstruct

The logo for MapStruct, featuring the word "map" in black and "struct" in a lighter grey. A red arrow points from "map" to "struct", and an orange arrow points from "struct" back to "map".

```
@Mapper(  
    componentModel = "spring",  
    unmappedSourcePolicy = ReportingPolicy.ERROR,  
    unmappedTargetPolicy = ReportingPolicy.ERROR  
)  
public interface ApplicationJpaMapper {  
    ApplicationBo toBo(Application app);  
}
```


@Component

```
public class ApplicationJpaMapperImpl implements ApplicationJpaMapper {
```

@Override

```
public ApplicationBo toBo(Application app) {
```

```
    if ( app == null ) {
```

```
        return null;
```

```
    }
```

```
        ApplicationBo.ApplicationBoBuilder applicationBo = ApplicationBo.builder();
```

```
        applicationBo.applicationId( app.getApplicationId() );
```

```
        applicationBo.personId( app.getPersonId() );
```

```
        applicationBo.channel( app.getChannel() );
```

```
        applicationBo.createdAt( app.getCreatedAt() );
```

```
        applicationBo.phone( app.getPhone() );
```

```
        return applicationBo.build();
```

```
    }
```

```
}
```

@SpringBootTest

@Mock

@DataJpaTest

mockito



**Ничто в современной разработке
не имеет смысла кроме как
в свете юнит-тестирования**



Testcontainers

@JsonTest

@MockBean



JUnit 5

Theodosius Dobzhansky.
Nothing in biology makes sense
except in the light of evolution //
The American Biology Teacher.
March 1973. V. 35. P. 125-129

Coverage must flow

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines
com.evilcorp.lda.app.domain.api		19%		0%	68	88	12	20
com.evilcorp.lda.app.domain		47%		10%	53	88	6	20
com.evilcorp.lda.infra.reports.dtos		55%		11%	29	47	0	8
com.evilcorp.lda.infra.jpa.entities		56%		0%	20	55	10	26
com.evilcorp.lda.app.mappers		39%		40%	6	9	22	37
com.evilcorp.lda.infra.reports		49%		10%	16	22	0	6
com.evilcorp.lda.app.service.impl		48%		10%	12	17	0	5
com.evilcorp.lda.infra.jpa		48%		10%	12	17	0	6
com.evilcorp.lda.infra.rest.impl		48%		10%	12	17	0	5
com.evilcorp.lda.infra.reports.impl		74%		0%	4	8	2	15
com.evilcorp.lda.infra.rest.mappers		91%		50%	2	10	2	20
com.evilcorp.lda.infra.jpa.mappers		95%		70%	3	9	3	37
com.evilcorp.lda		37%		n/a	1	2	2	3
com.evilcorp.lda.infra.reports.mappers		95%		50%	1	3	1	11
com.evilcorp.lda.infra.rest		100%		n/a	0	3	0	3
Total	1,433 of 2,805	48%	302 of 338	10%	239	395	60	222

Created with JaCoCo 0.8.8.202204050719

ApplicationBo

Element	Missed Instructions	Cov.	Missed Branches	Cov.
equals(Object)		0%		0%
ApplicationBo(UUID, UUID, String, LocalDateTime, String, String)		0%		n/a
toString()		0%		n/a
hashCode()		88%		58%
canEqual(Object)		0%		n/a
ApplicationBo(ApplicationBo.ApplicationBoBuilder)		100%		n/a
builder()		100%		n/a
getApplicationId()		100%		n/a
getPersonId()		100%		n/a
getChannel()		100%		n/a
getCreatedAt()		100%		n/a
getPhone()		100%		n/a
getType()		100%		n/a
Total	171 of 300	43%	47 of 54	12%

Project Lombok

@Value

@Builder

```
public class ApplicationBo {  
    UUID applicationId;  
}
```

Project Lombok

@Value

@Builder

```
public class ApplicationBo {  
    UUID applicationId;
```

```
public UUID getApplicationId() {  
    return this.applicationId;  
}
```


Project Lombok

@Value

@Builder

```
public class ApplicationBo {  
    UUID applicationId;
```

@Generated

```
public UUID getApplicationId() {  
    return this.applicationId;  
}
```

Project Lombok

@Value

@Builder

```
public class ApplicationBo {  
    UUID applicationId;
```

@Generated

```
public UUID getApplicationId() {  
    return this.applicationId;  
}
```

`Lombok.addLombokGeneratedAnnotation=true`

Project Lombok + JACOCO

Чтобы игнорировать геттеры и сеттеры

lombok.config



```
Lombok.addLombokGeneratedAnnotation=true
```

mapstruct

The logo for MapStruct, featuring the word "map" in black and "struct" in a larger, bold black font. A red arrow curves from the top of "struct" to the top of "map", and an orange arrow curves from the bottom of "map" to the bottom of "struct".

```
@Mapper(  
    componentModel = "spring",  
    unmappedTargetPolicy = ReportingPolicy.ERROR,  
    unmappedSourcePolicy = ReportingPolicy.ERROR  
)  
public interface ApplicationReportMapper {  
    @Mapping(target = "source", source = "channel")  
    ApplicationReportDto toRepDto(ApplicationBo applicationBo);  
}
```

Framework



MapStruct Support



MapStruct

[Overview](#)

[Versions](#)

[Reviews](#)

MapStruct support for IntelliJ IDEA

[Website](#) | [GitHub](#) | [Issue Tracker](#) |



☰ README.md

mapstruct-idea

An IntelliJ IDEA plugin for working with MapStruct

License **Apache 2.0**

CI **passing**  **80%**

- [What is MapStruct?](#)
- [Features](#)
- [Requirements](#)
- [Building from Source](#)
- [Licensing](#)

What is MapStruct?



```
@Mapper(  
    componentModel = "spring",  
    unmappedTargetPolicy = ReportingPolicy.ERROR,  
    unmappedSourcePolicy = ReportingPolicy.ERROR  
)  
public interface ApplicationReportMapper {  
    @Mapping(target = "source", source = "channel")  
    ApplicationReportDto toRepDto(ApplicationBo applicationBo);  
}
```

Может и не надо ничего тестить



+ JACOCO



```
@Generated(  
    value = "org.mapstruct.ap.MappingProcessor",  
    date = "2023-06-12T17:49:16+0300",  
    comments = "version: 1.5.3.Final, compiler: javac, environment: Java 17.0.1 (GraalVM Community)"  
)  
@Component  
public class ApplicationApiMapperImpl implements ApplicationApiMapper {
```

```
12. @Generated(  
13.     value = "org.mapstruct.ap.MappingProcessor",  
14.     date = "2023-07-04T22:47:23+0300",  
15.     comments = "version: 1.5.3.Final, compiler: javac, environment: Java 17.0.1 (GraalVM Community)"  
16. )  
17. @Component  
18. public class ApplicationApiMapperImpl implements ApplicationApiMapper {  
19.  
20.     @Override  
21.     public ApplicationApiBo toApp(ApplicationBo app) {  
22.         if ( app == null ) {  
23.             return null;  
24.         }  
25.  
26.         if ( app instanceof CreditLineApplicationBo ) {  
27.             return creditLineApplicationBoToCreditLineApplicationApiBo( (CreditLineApplicationBo) app );  
28.         }  
29.         else if ( app instanceof TrancheApplicationBo ) {  
30.             return trancheApplicationBoToTrancheApplicationApiBo( (TrancheApplicationBo) app );  
31.         }  
32.         else {  
33.             ApplicationApiBo.ApplicationApiBoBuilder<?, ?> applicationApiBo = ApplicationApiBo.builder();  
34.  
35.             applicationApiBo.applicationId( app.getApplicationId() );  
36.             applicationApiBo.personId( app.getPersonId() );  
37.             applicationApiBo.channel( app.getChannel() );  
38.             applicationApiBo.createdAt( app.getCreatedAt() );  
39.             applicationApiBo.phone( app.getPhone() );  
40.             applicationApiBo.type( app.getType() );  
41.  
42.             return applicationApiBo.build();  
43.         }  
44.     }  
}
```



+ JACOCO

```
@Generated(  
    value = "org.mapstruct.ap.MappingProcessor",  
    date = "2023-06-12T17:49:16+0300",  
    comments = "version: 1.5.3.Final, compiler: javac, environment: Java 17.0.1 (GraalVM Community)"  
)  
@Component  
public class ApplicationApiMapperImpl implements ApplicationApiMapper {  
  
    @Documented  
    @Retention(SOURCE)  
    @Target({PACKAGE, TYPE, METHOD, CONSTRUCTOR, FIELD,  
        LOCAL_VARIABLE, PARAMETER})  
    public @interface Generated {
```



Improvement: @Generated annotation to mark code that should be ignored by JaCoCo #1528

New issue

Closed empovit opened this issue on Jun 18, 2018 · 16 comments



empovit commented on Jun 18, 2018



It would be nice to have an annotation with CLASS retention policy that can be ignored by code coverage tools like JaCoCo. This should work similar to how it's done for [Immutables](#) and [Lombok](#).

12

Assignees

No one assigned

Labels

feature for:team-discussion

Add annotations to Generated code #1574

New issue

Closed vadim-shb opened this issue on Aug 5, 2018 · 20 comments · Fixed by #2792

Zegveld commented on Nov 17, 2022

Contributor



It does not allow you to replace the default `@Generated` but it will allow you to add a secondary `@Generated` annotation.

For example:

```
@Mapper
@AnnotateWith( com.example.Generated.class )
interface MyMapper {
  ...
}
```

could turn into:

```
import javax.annotation.processing.Generated;

@Generated(
  value = "org.mapstruct.ap.MappingProcessor",
  date = "2022-11-17T15:57:41+0200",
  comments = "version: 1.6.0, compiler: javac, environment: Java 17.0.4 (Azul Systems, Inc.)"
)
@com.example.Generated
public class MyMapperImpl implements MyMapper {
  ...
}
```



+ JACOCO

```
<plugin>
  <groupId>org.jacoco</groupId>
  <artifactId>jacoco-maven-plugin</artifactId>
  <version>0.8.8</version>
  <configuration>
    <excludes>
      <exclude>**/**IgnoreCoverage.class</exclude>
    </excludes>
  </configuration>
  <executions>
```

```
@Mapper(
  componentModel = "spring",
  unmappedTargetPolicy = ReportingPolicy.ERROR,
  unmappedSourcePolicy = ReportingPolicy.ERROR,
  implementationName = "CreditLineApplicationMapperIgnoreCoverage"
)
public interface CreditLineApplicationMapper extends ApplicationConc
```




```
ApplicationJpaMapper mapper = Mappers.getMapper(ApplicationJpaMapper.class);
```

```
@Test
```

```
void toBo() {
```

```
    final Application in = Application.builder()
        .applicationId(UUID.randomUUID())
        .personId(UUID.randomUUID())
        .channel("TEST_CHANNEL")
        .phone("123")
        .createdAt(LocalDate.now().truncatedTo(ChronoUnit.SECONDS))
        .build();
```

```
    final ApplicationBo out = mapper.toBo(in);
```

```
    assertThat(in.getApplicationId()).isEqualTo(out.getApplicationId());
    assertThat(in.getPersonId()).isEqualTo(out.getPersonId());
    assertThat(in.getChannel()).isEqualTo(out.getChannel());
    assertThat(in.getPhone()).isEqualTo(out.getPhone());
    assertThat(in.getCreatedAt()).isEqualTo(out.getCreatedAt());
```

```
ApplicationJpaMapper mapper = Mappers.getMapper(ApplicationJpaMapper.class);
```

```
@Test
```

```
void toBo() {
```

```
    final Application in = Application.builder()
        .applicationId(UUID.randomUUID())
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    final ApplicationBo out = mapper.toBo(in);
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    assertThat(in.getApplicationId()).isEqualTo(out.getApplicationId());
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    assertThat(in.getChannel()).isEqualTo(out.getChannel());
    assertThat(in.getPhone()).isEqualTo(out.getPhone());
    assertThat(in.getCreatedAt()).isEqualTo(out.getCreatedAt());
```

**Бессмысленный
тест?**

```
ApplicationJpaMapper mapper = Mappers.getMapper(ApplicationJpaMapper.class);
```

```
@Test
```

```
void toBo() {
```

```
    final Application in = Application.builder()
        .applicationId(000L.randomID())
        .personId(000L.randomID())
        .channel("TEST_CHANNEL")
        .phone("123")
        .createdAt(LocalDateTime.now().truncatedTo(ChronoUnit.SECONDS))
        .build();
```

```
    final Application in = factory.build(Application.class);
```

```
    final ApplicationBo out = mapper.toBo(in);
```

```
    assertThat(in.getApplicationId()).isEqualTo(out.getApplicationId());
```

```
    assertThat(in.getPersonId()).isEqualTo(out.getPersonId());
```

```
    assertThat(in.getChannel()).isEqualTo(out.getChannel());
```

```
    assertThat(in.getPhone()).isEqualTo(out.getPhone());
```

```
    assertThat(in.getCreatedAt()).isEqualTo(out.getCreatedAt());
```

**Бессмысленный
тест?**

```
ApplicationJpaMapper mapper = Mappers.getMapper(ApplicationJpaMapper.class);
```

```
@Test
```

```
void toBo() {
```

```
    final Application in = Application.builder()
        .applicationId(000L.randomID())
        .personId(000L.randomID())
        .channel("TEST_CHANNEL")
        .phone("123")
        .createdAt(LocalDateTime.now().truncatedTo(ChronoUnit.SECONDS))
        .build();
```

```
    final Application in = factory.build(Application.class);
```

```
    final ApplicationBo out = mapper.toBo(in);
```

```
    assertThat(in.getId()).isEqualTo(out.getId());
```

```
    assertThat(in.getPersonId()).isEqualTo(out.getPersonId());
```

```
    assertThat(in.getChannel()).isEqualTo(out.getChannel());
```

```
    assertThat(in.getPhone()).isEqualTo(out.getPhone());
```

```
    assertThat(in.getCreatedAt()).isEqualTo(out.getCreatedAt());
```

```
    assertThat(in).usingRecursiveComparison()
```

```
        .isEqualTo(out);
```

**Бессмысленный
тест?**

```
ApplicationJpaMapper mapper = Mappers.getMapper(ApplicationJpaMapper.class);
```

```
@Test
```

```
void toBo() {
```

```
    final Application in = Application.builder()
        .applicationId(000L.randomIDP())
        .personId(000L.randomIDP())
        .channel("TEST_CHANNEL")
        .phone("123")
        .createdAt(LocalDateTime.now().truncatedTo(ChronoUnit.SECONDS))
        .build();
```

```
    final Application in = factory.build(Application.class);
```

```
    final ApplicationBo out = mapper.toBo(in);
```

```
    assertEquals(in.getApplicationId(), out.getApplicationId());
    assertEquals(in.getPersonId(), out.getPersonId());
    assertEquals(in.getChannel(), out.getChannel());
    assertEquals(in.getPhone(), out.getPhone());
    assertEquals(in.getCreatedAt(), out.getCreatedAt());
```

```
    assertThat(in).usingRecursiveComparison()
        .isEqualTo(out);
```

**Бессмысленный
тест?**

 JPoint 2020

assertTrue,
КАК МНОГО В ЭТОМ СЛОВЕ



Владимир Ситников
Netcracker


```
@Test
```

```
void toRepDto() {
```

```
    final ApplicationBo in = easyRandom.nextObject(TrancheApplicationBo.class);
```

```
    final ApplicationReportDto out = mapper.toRepDto(in);
```

```
    assertThat(out).usingRecursiveComparison()
```

```
        .ignoringFields("source")
```

```
        .isEqualTo(in);
```

```
    assertThat(out.getSource()).isEqualTo(in.getChannel());
```

```
}
```

```
}
```

```
class ApplicationReportMapperAgainstMapperTest {
    private final ApplicationReportMapper mapper = Mappers.getMapper(ApplicationReportMapper.class);
    private final TestAppMapper testAppMapper = Mappers.getMapper(TestAppMapper.class);
    private EasyRandom easyRandom = new EasyRandom();
```

```
@Test
```

```
void toRepDto() {
```

```
    final ApplicationBo in = easyRandom.nextObject(TrancheApplicationBo.class);
```

```
    final ApplicationReportDto expected = testAppMapper.toApp(in)
```

```
        .toBuilder()
```

```
        .source(in.getChannel())
```

```
        .build()
```

```
    ;
```

```
    ApplicationReportDto actual = mapper.toRepDto(in);
```

```
    assertThat(actual).usingRecursiveComparison()
```

```
        .isEqualTo(expected);
```

```
    }
```

```
}
```

```
@Mapper({
```

```
    unmappedSourcePolicy = ReportingPolicy.ERROR,
```

```
    unmappedTargetPolicy = ReportingPolicy.ERROR
```

```
})
```

```
interface TestAppMapper {
```

```
    @Mapping(target = "source", ignore = true)
```

```
    ApplicationReportDto toApp(ApplicationBo in);
```

```
}
```

1. Есть причины чтобы делать много ДТО
2. Сейчас для этого есть удобные инструменты
3. Тестируйте маппинг!





Спасибо!







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 sazonovfm@gmail

