

The Realm Mobile Platform Experience

Realm World Tour 2017, #RealmWorldTour

JP Simard



An estimated billion people rely on Realm.
Most probably you do too.

HYATT

L'ORÉAL®



ebay™

intuit.

amazon



GoPro

Walmart*

Google



Alibaba



zipcar.

BBC



AVIS

Virgin

IBM

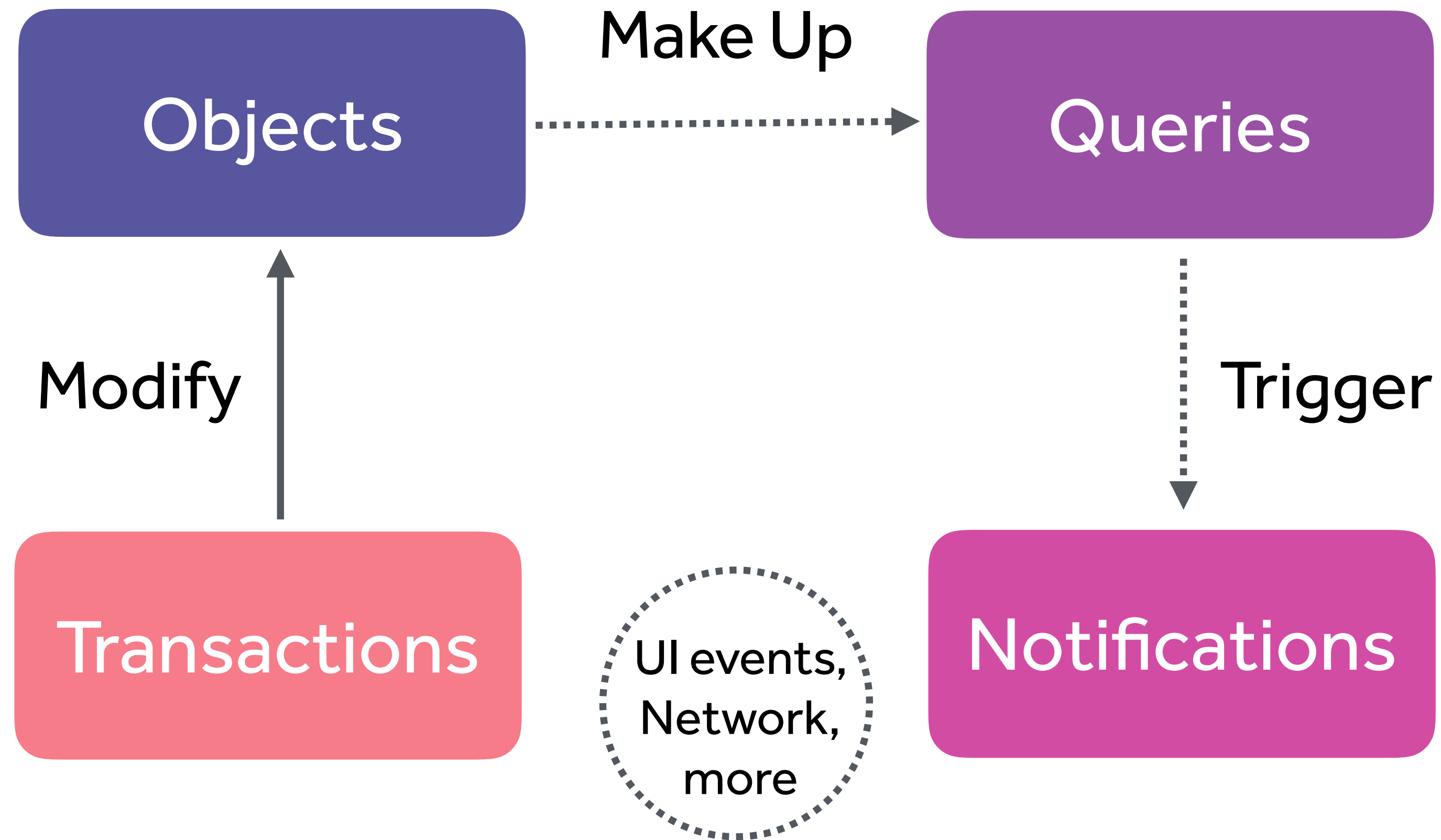
SONY



Reactive Mobile Database with Live Objects

Open Source and Free

Realm Mobile Database



Objects

Swift

```
class Dog: Object {  
    dynamic var age: Int = 0  
    dynamic var owner: Person?  
}
```

Java

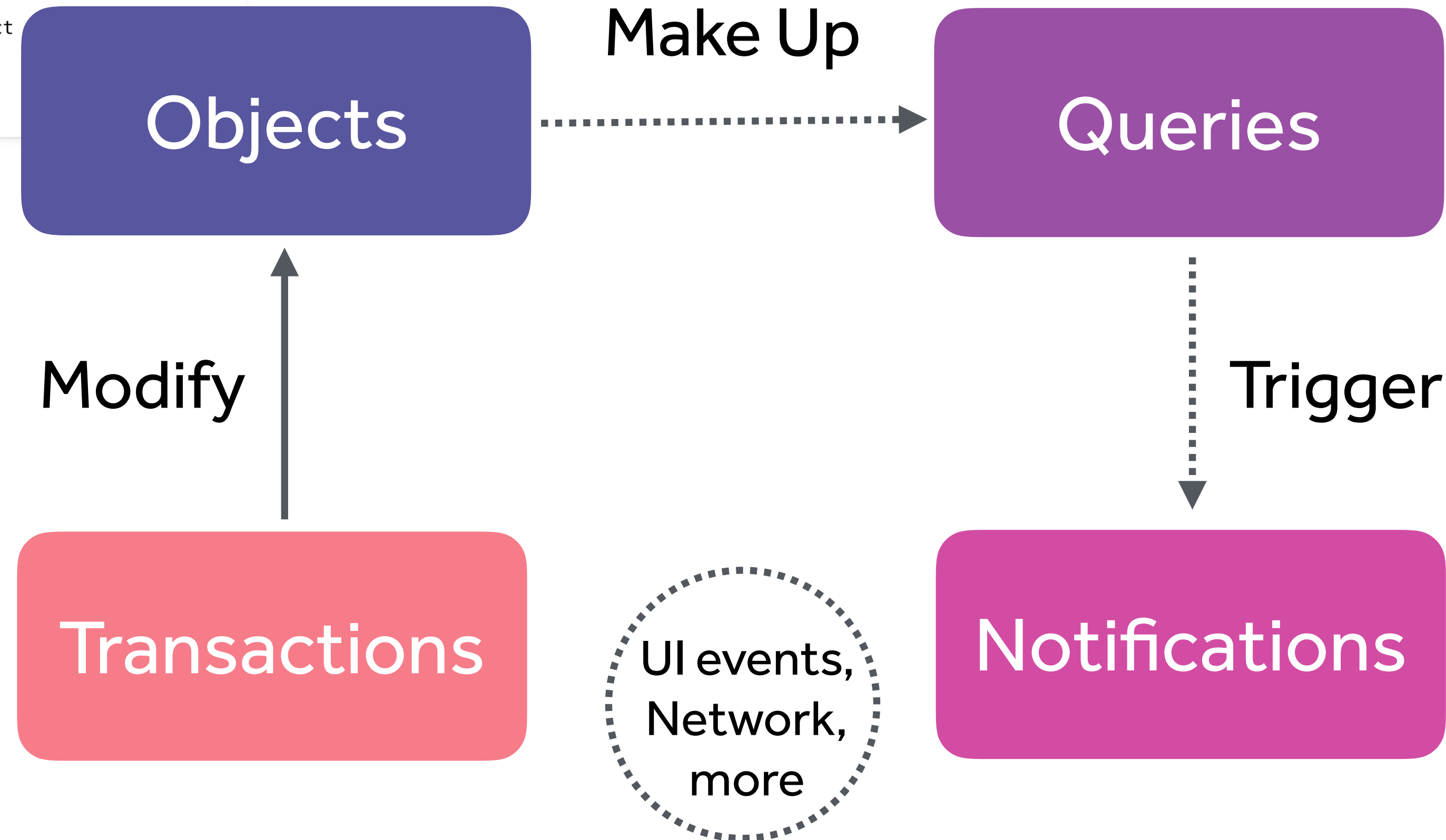
```
public class Dog extends RealmObject {  
    private int age;  
    private Person owner;  
}
```

Swift

```
class Dog: Object {  
    dynamic var age: Int = 0  
    dynamic var owner: Person?  
}
```

Java

```
public class Dog extends RealmObject {  
    private int age;  
    private Person owner;  
}
```



Queries

Swift

```
class Dog: Object {  
    dynamic var age: Int = 0  
    dynamic var owner: Person?  
}
```

Java

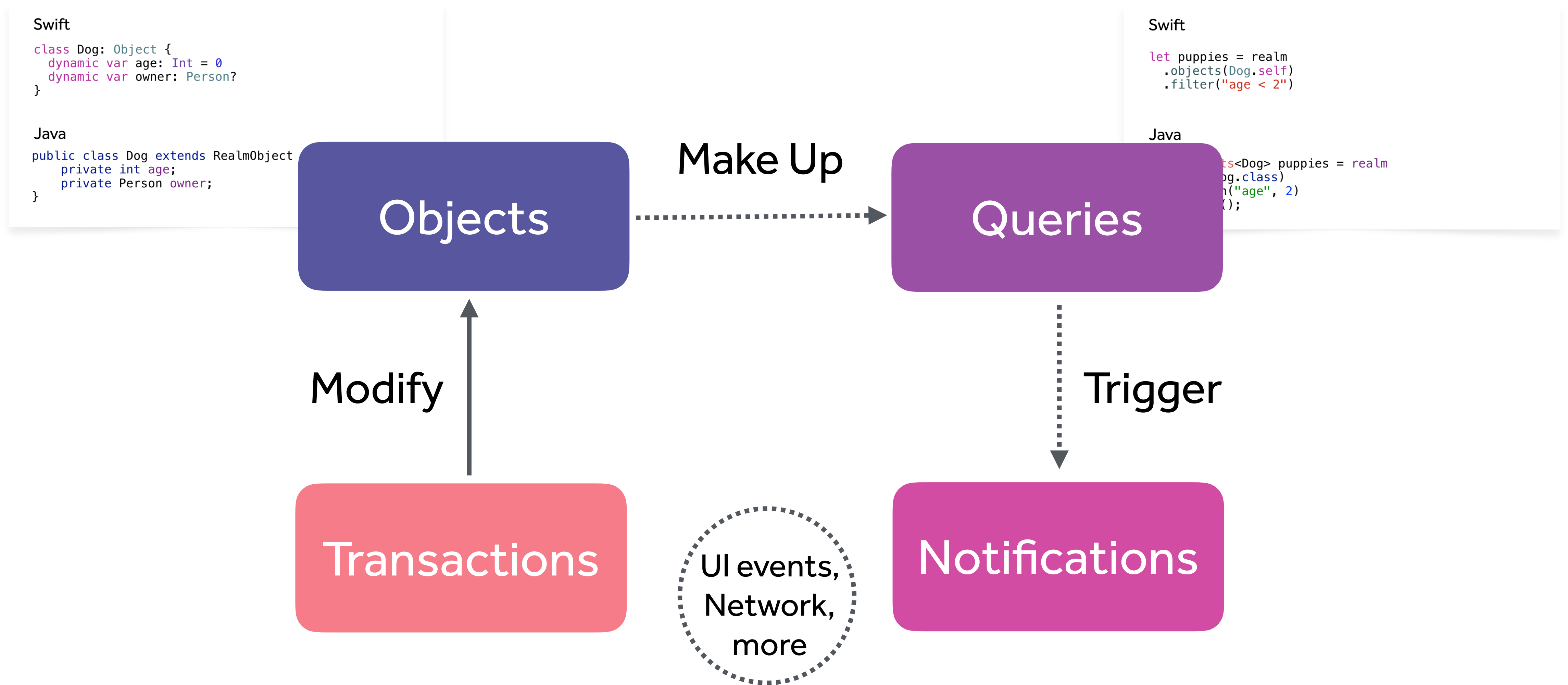
```
public class Dog extends RealmObject {  
    private int age;  
    private Person owner;  
}
```

Swift

```
let puppies = realm  
    .objects(Dog.self)  
    .filter("age < 2")
```

Java

```
RealmResults<Dog> puppies = realm  
    .where(Dog.class)  
    .lessThan("age", 2)  
    .findAll();
```



Notifications

Swift

```
class Dog: Object {  
    dynamic var age: Int = 0  
    dynamic var owner: Person?  
}
```

Java

```
public class Dog extends RealmObject {  
    private int age;  
    private Person owner;  
}
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Swift

```
let puppies = realm  
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Java

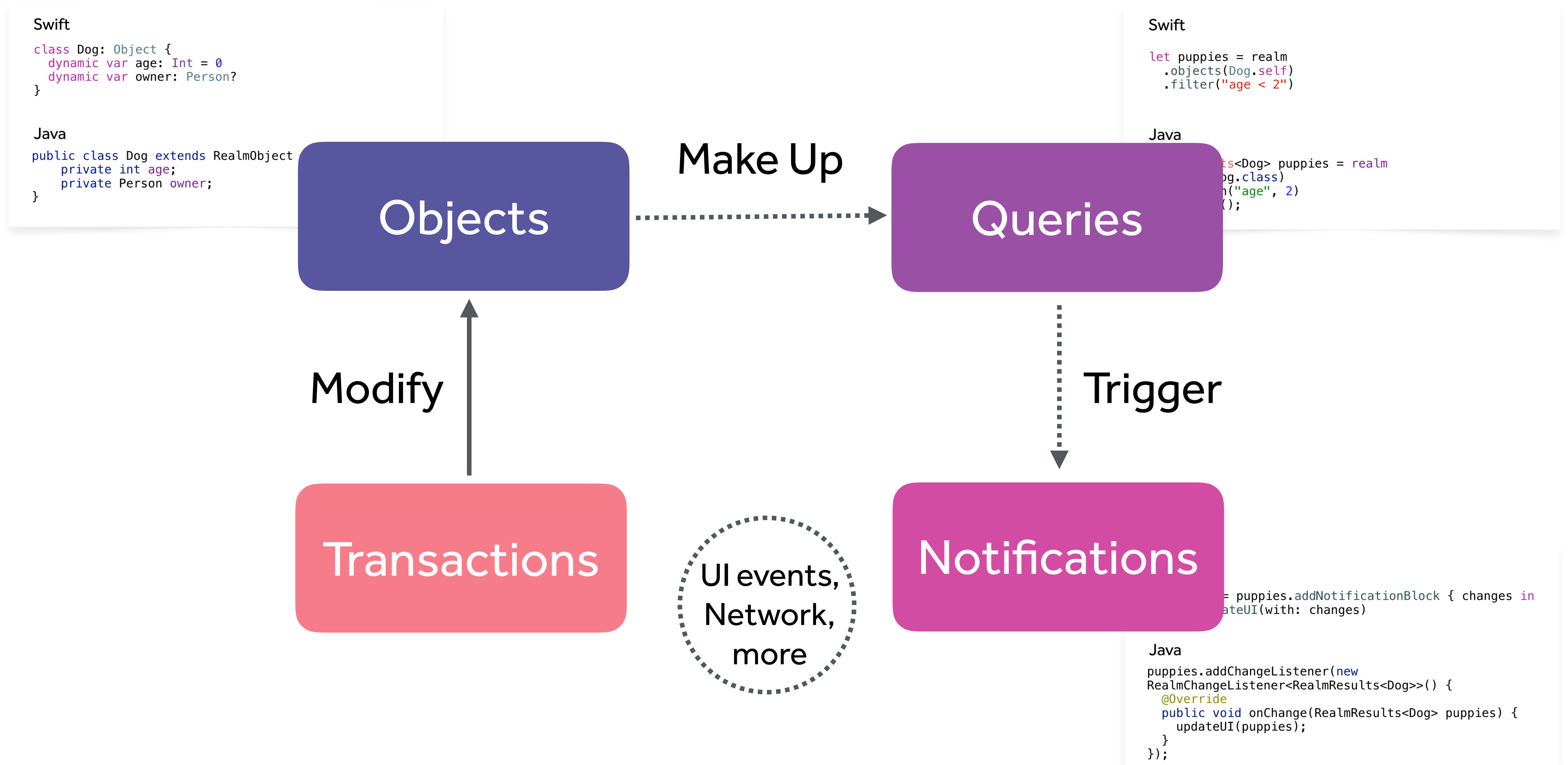
```
puppies = realm
```

Swift

```
let token = puppies.addNotificationBlock { changes in  
    self.updateUI(with: changes)  
}
```

Java

```
puppies.addChangeListener(new  
    RealmChangeListener<RealmResults<Dog>>() {  
        @Override  
        public void onChange(RealmResults<Dog> puppies) {  
            updateUI(puppies);  
        }  
    }  
);
```



Transactions

Swift

```
class Dog: Object {  
    dynamic var age: Int = 0  
    dynamic var owner: Person?  
}
```

Java

```
public class Dog extends RealmObject {  
    private int age;  
    private Person owner;  
}
```

Swift

```
let puppies = realm  
    .objects(Dog.self)  
    .filter("age < 2")
```

Swift

```
try realm.write {  
    dog.owner = Person(name: "me")  
}
```

Java

```
realm.executeTransaction(new Realm.Transaction() {  
    @Override  
    public void execute(Realm r) {  
        Person me = new Person("me");  
        r.copyToRealm(me)  
        dog.setOwner(me);  
    }  
});
```

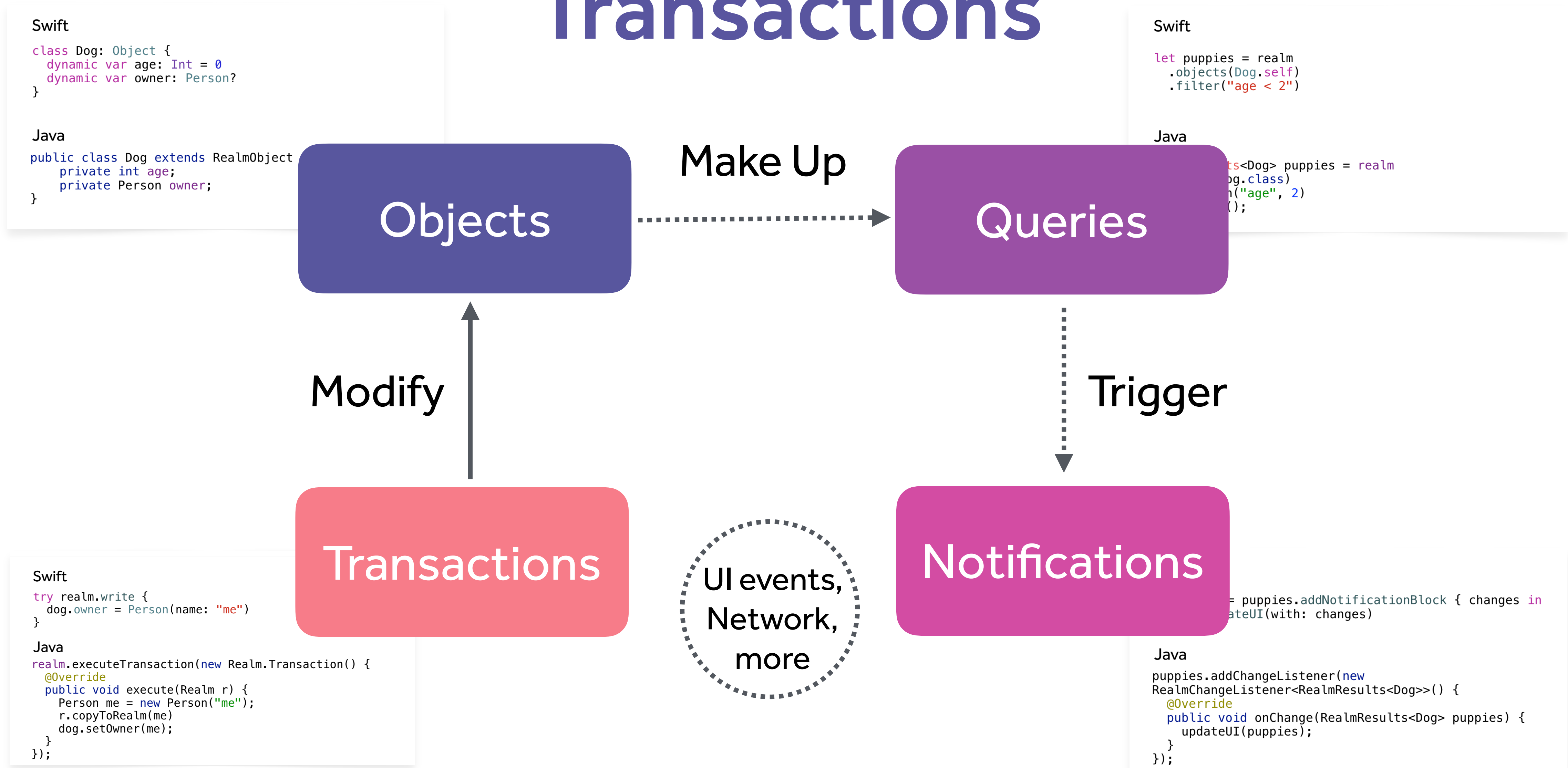
let puppies = realm

notificationBlock { changes in
 changes)

realm(new
 RealmResults<Dog>()) {

```
@Override  
public void onChange(RealmResults<Dog> puppies) {  
    updateUI(puppies);  
}  
});
```

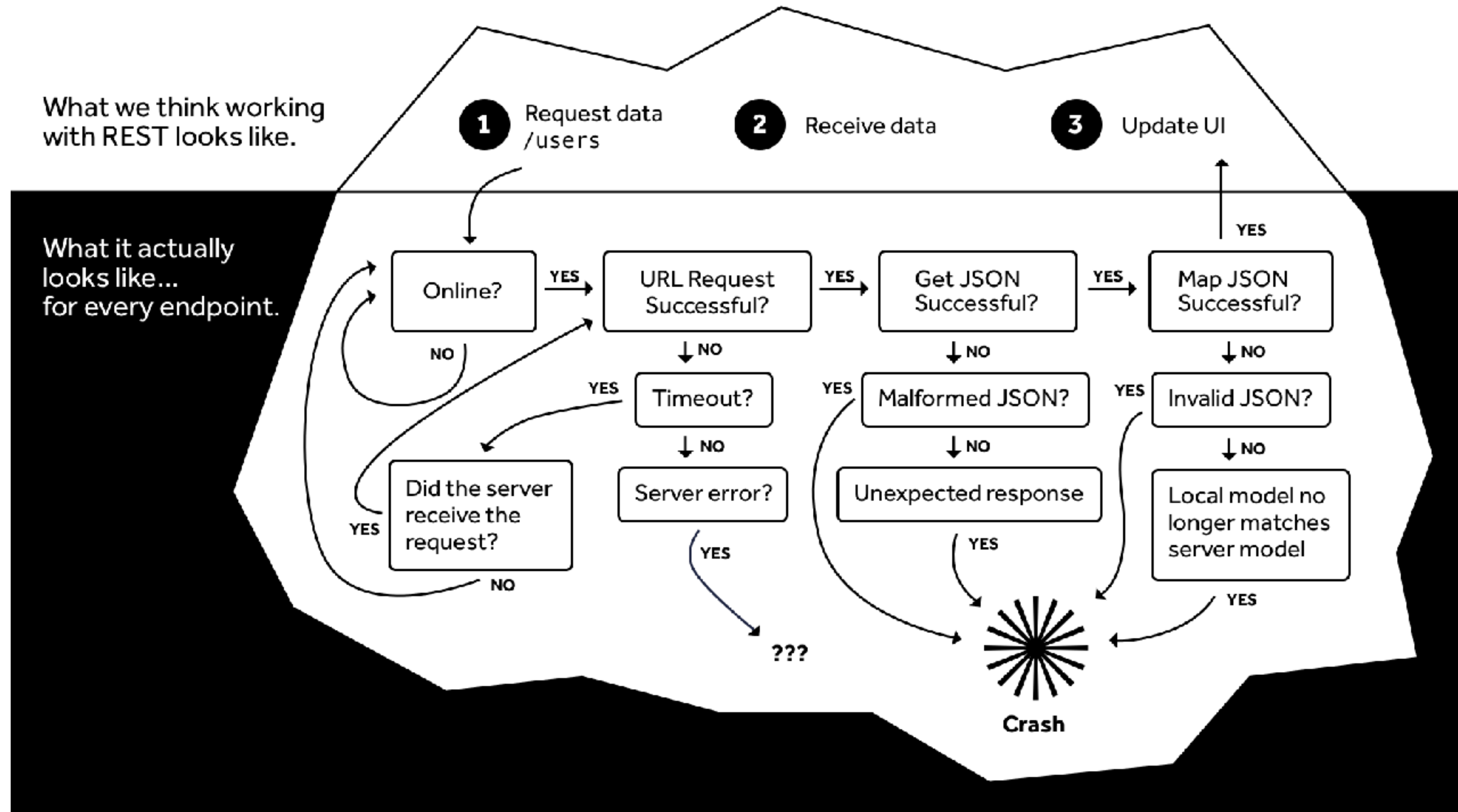
Transactions



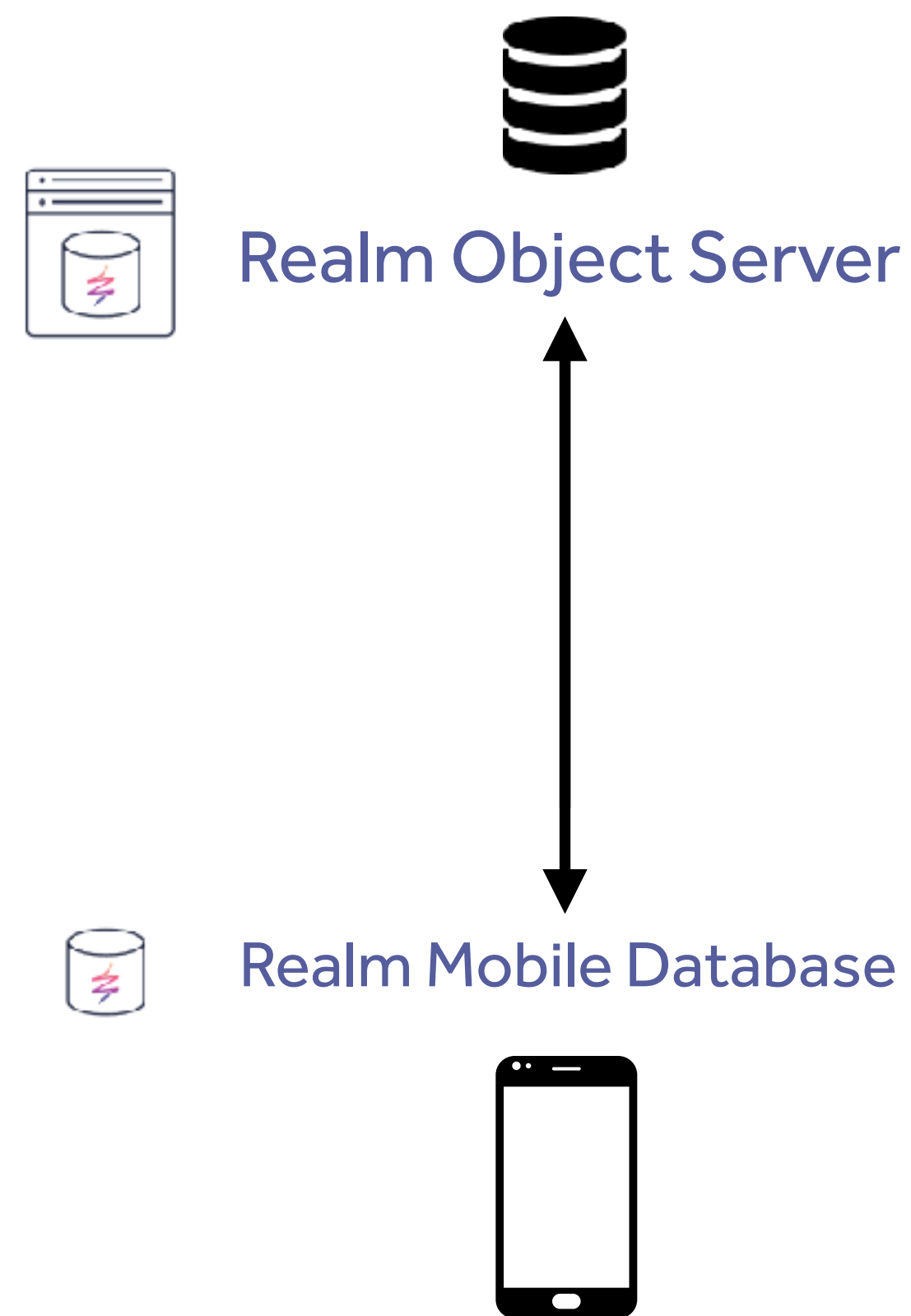
Seamless Data Sync for Realtime Apps and Collaborative Features

Realm Mobile Platform

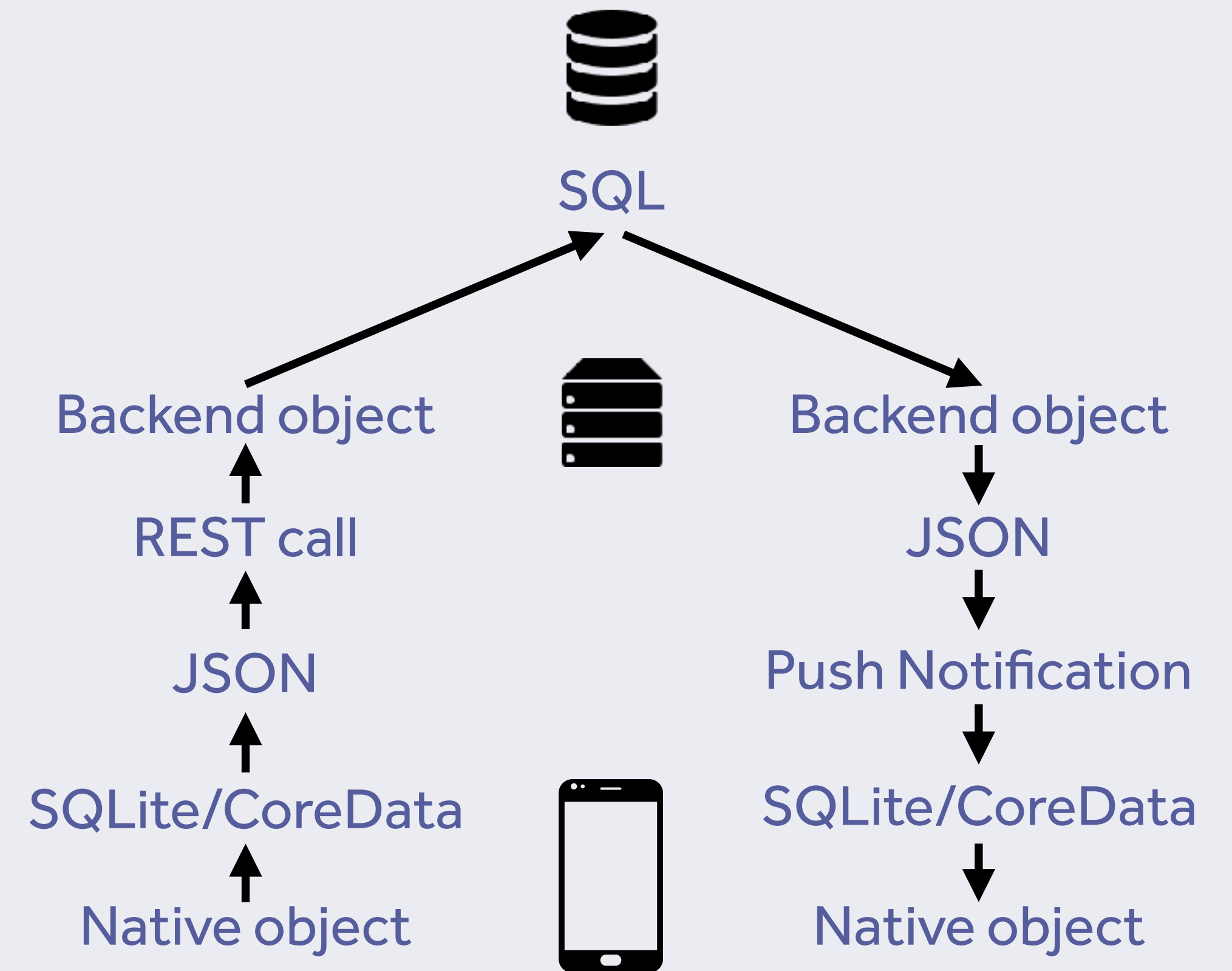
Realtime sync with REST



The Realm Mobile Platform Experience

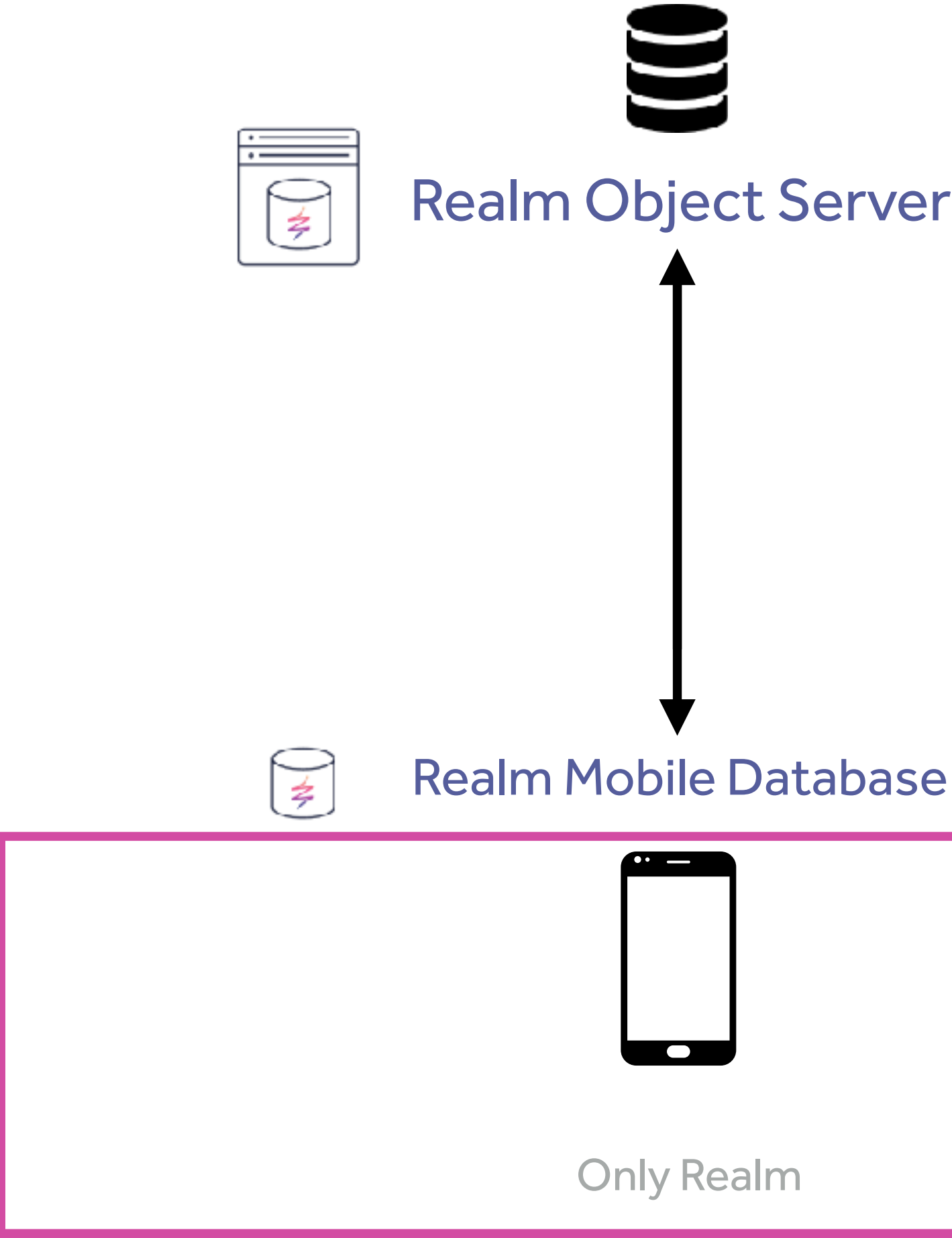


Only Realm

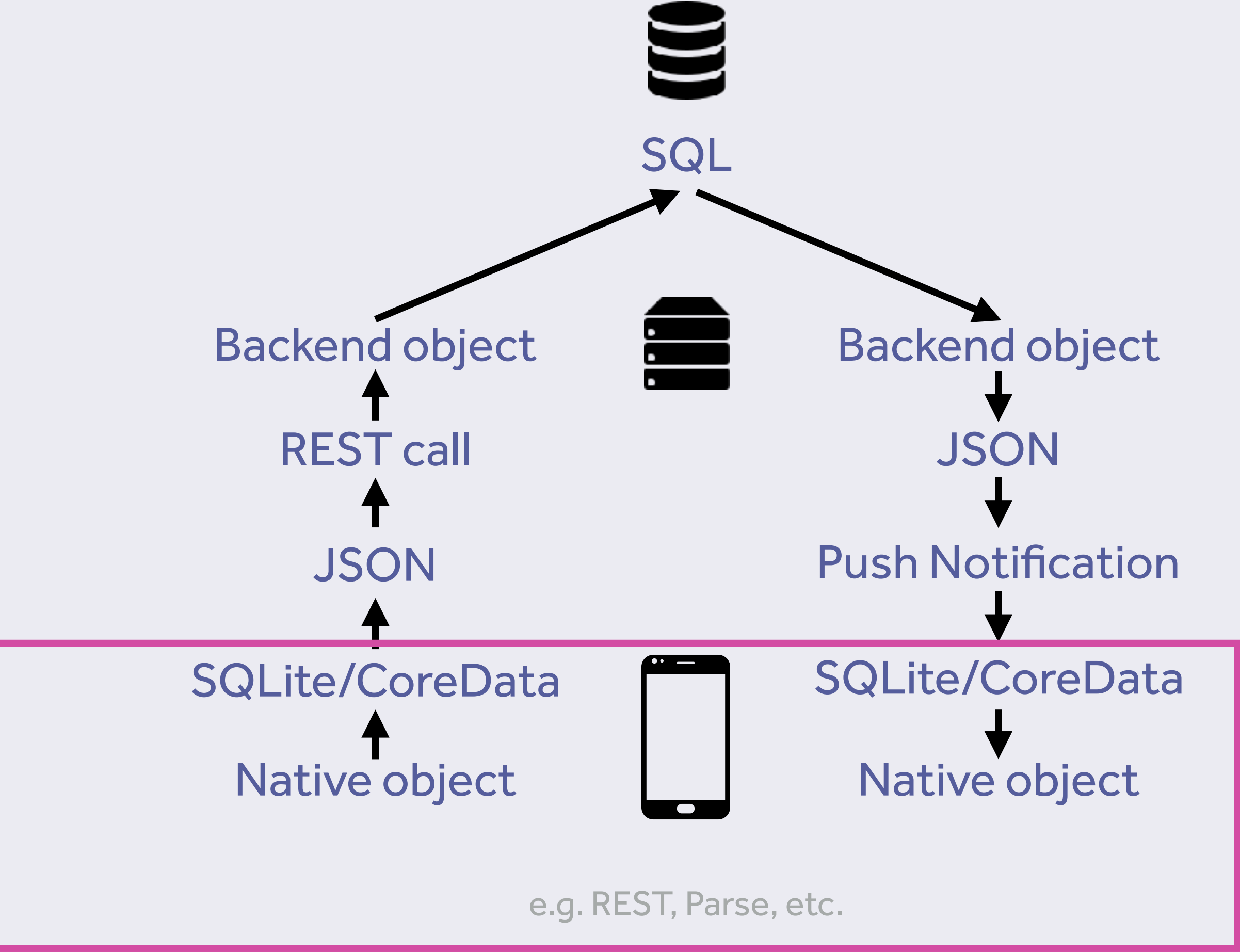


e.g. REST, Parse, etc.

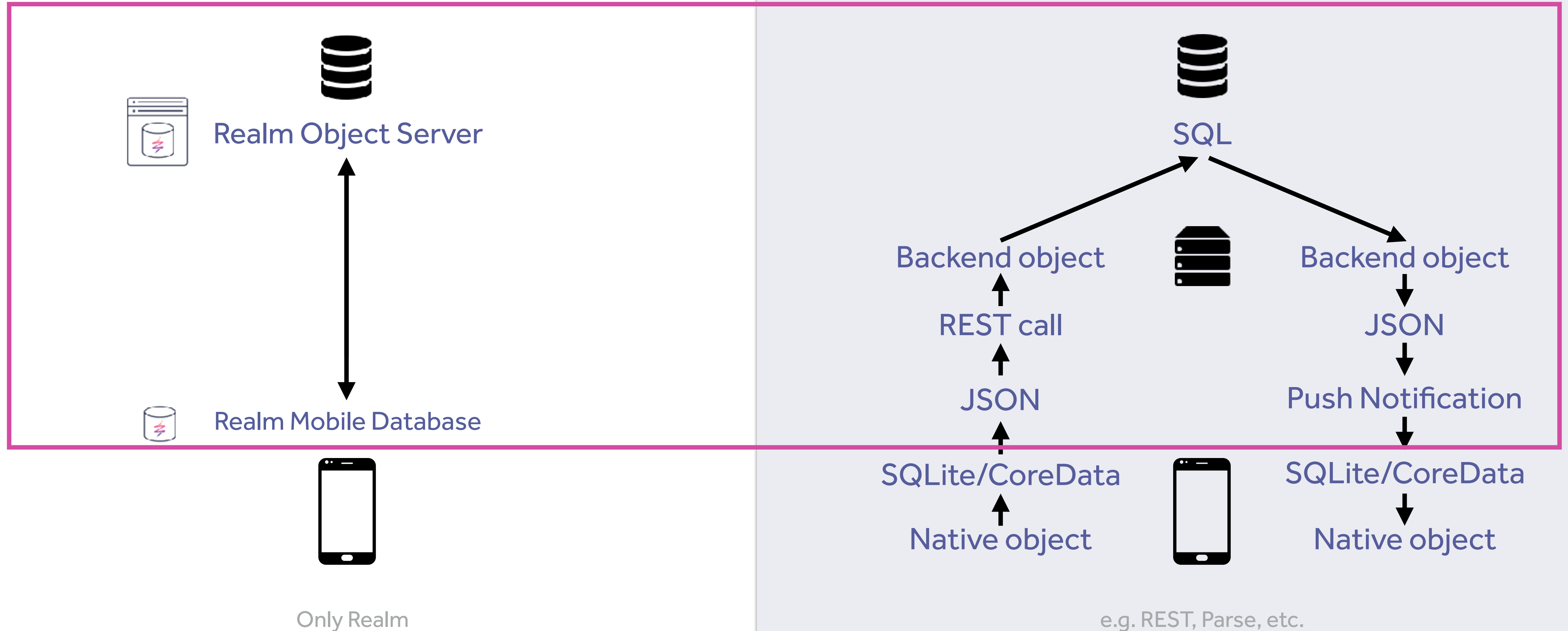
Realm



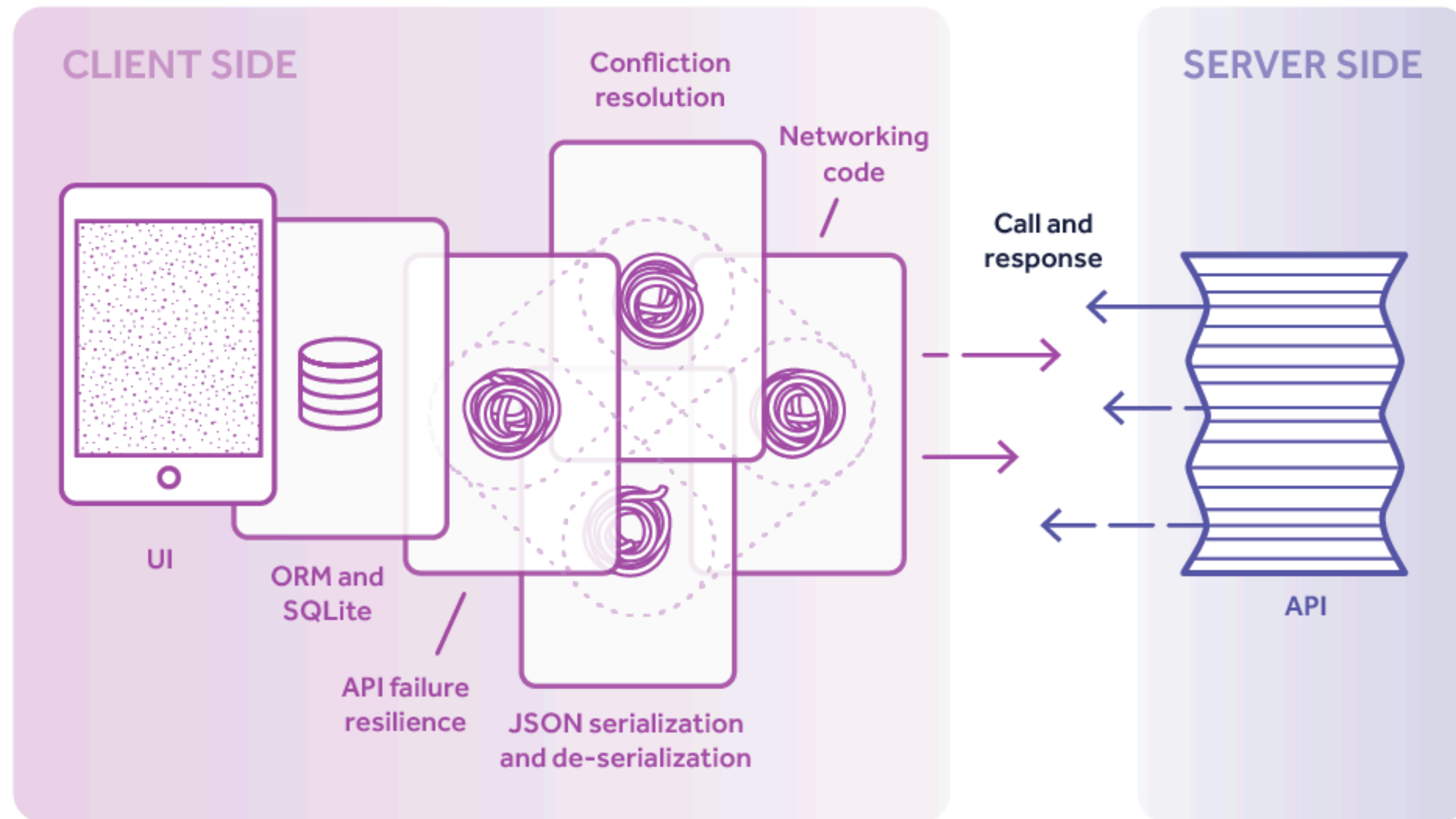
REST/JSON



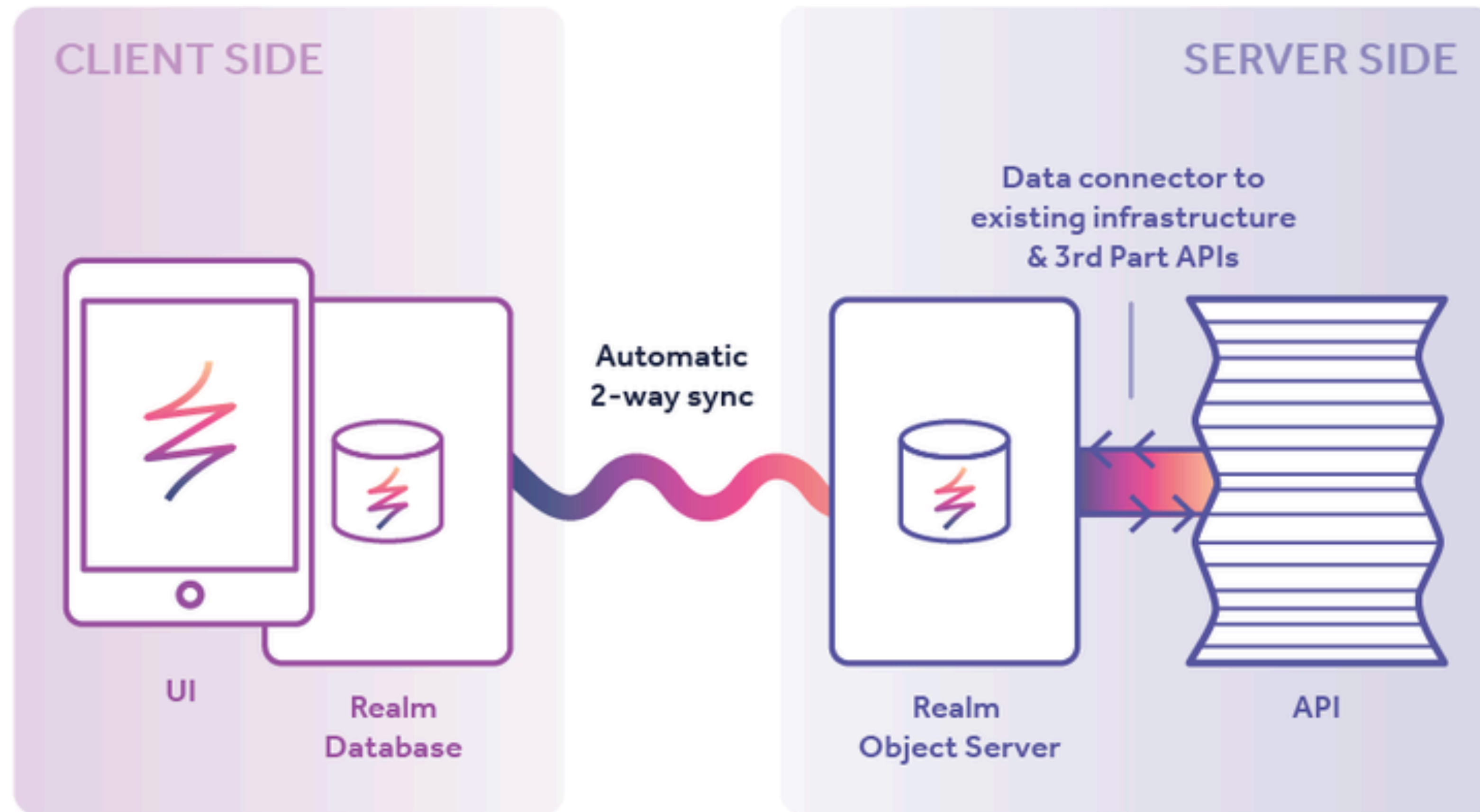
Realm



Changing your apps architecture from this...



...to this

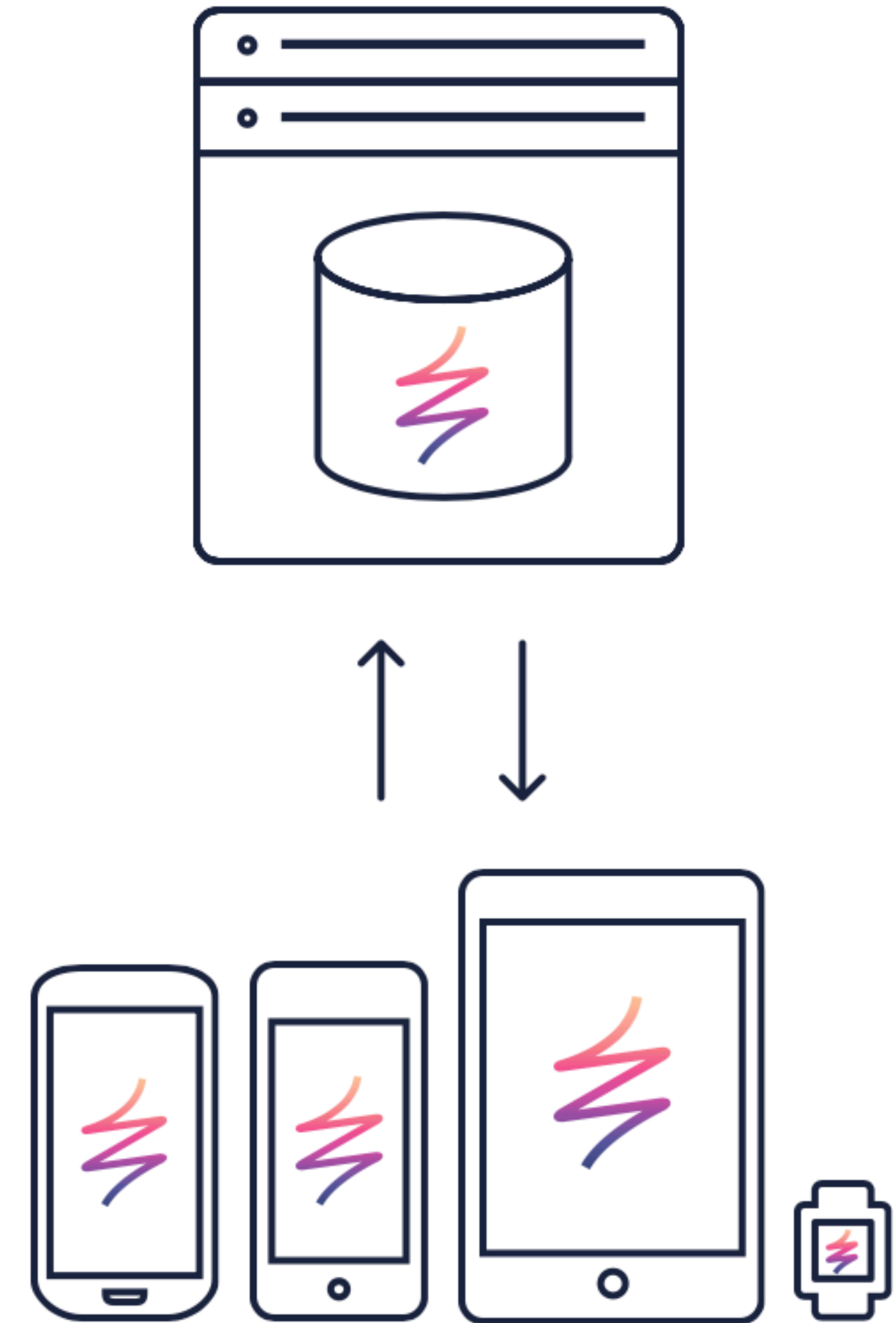


Data Access API

```
var Realm = require('realm');  
  
var results = realm.objects("Dog");  
  
realm.write(function() {  
    results[0].owner = me  
})
```

More Server Features

- Realm Database SDK
- Authorization
- Encrypted Transport
- Realtime Synchronization
- Server Side Event Handling
- Horizontal Scaling
- Continuous Backup



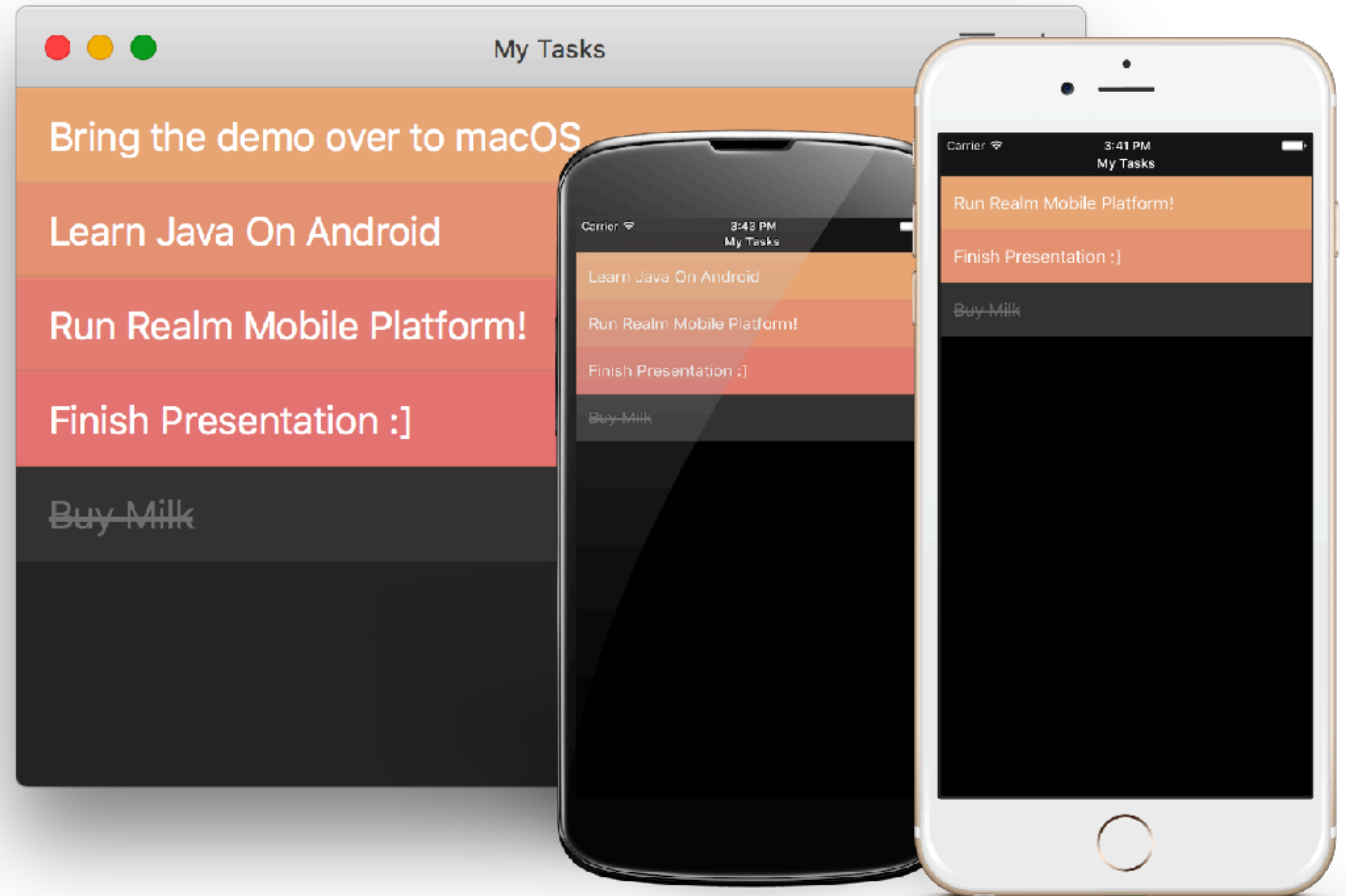
Demo

Realm Pop

Connecting to the Realm
Server Object, Server Events

Realm Mobile Platform

- <https://realm.io>
- RealmTasks to demo all features
- DE is free for all
- PE has 2 month trial



We're hiring

- Distributed Systems Eng.
- JavaScript Engineer
- Product Manager
- Sales Engineer
- Account Executive
- local / remote !

realm.io/jobs



Questions?

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www.realm.io

[@simjp](#)

1. Join **realm-guest**
2. password is: **piedpiper**
3. go to <https://worldtour.realm.io> or scan:
4. install RealmPop and play!



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