



# Building Apps With Couchbase Mobile

Wayne Carter - Chief Architect of Mobile



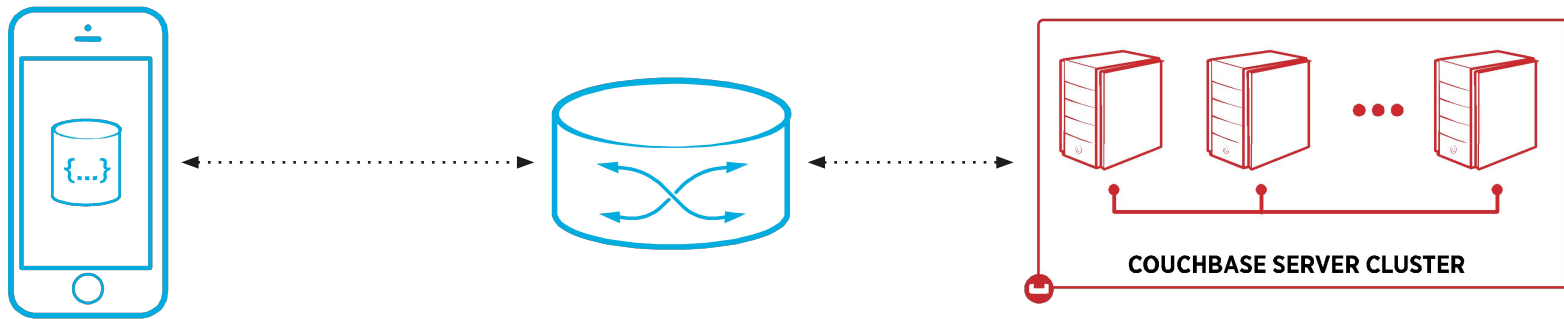
- What is Couchbase Mobile?
- What are we going to build?
- Demo
- Write code!

[github.com/couchbaselabs/mobile-training-todo](https://github.com/couchbaselabs/mobile-training-todo)



# What is Couchbase Mobile?

Couchbase Mobile is the NoSQL database for mobile apps. It has a consistent set of APIs and capabilities that span the entire application stack from the device to the cloud.



## Couchbase Lite

Embedded NoSQL  
database

## Sync Gateway

Secure authentication, data  
access, and synchronization

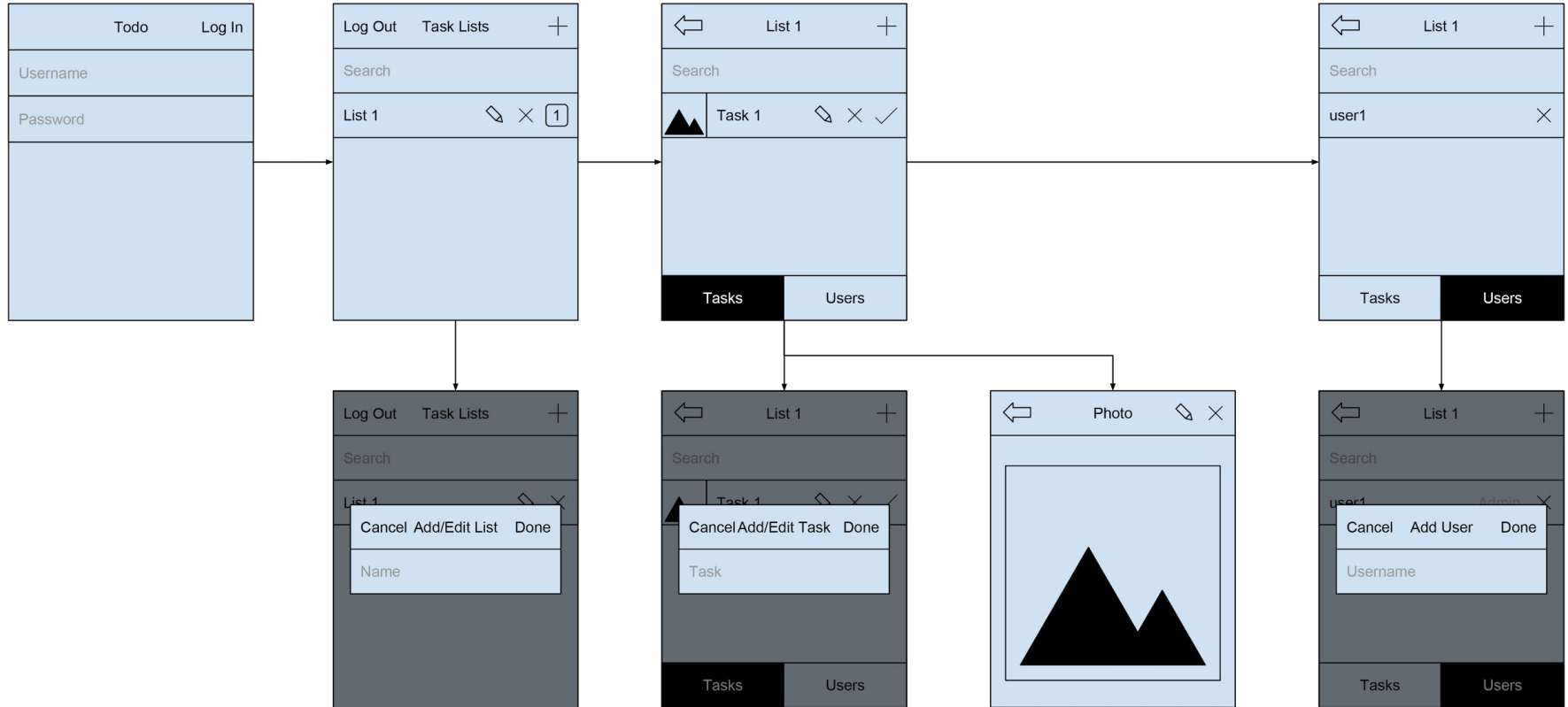
## Couchbase Server

Highly scalable NoSQL  
database server cluster

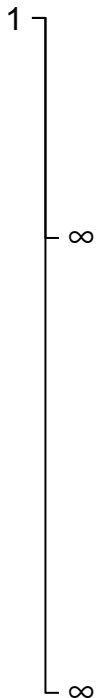


# What are we going to build?

# Wireframes & Navigation Flow



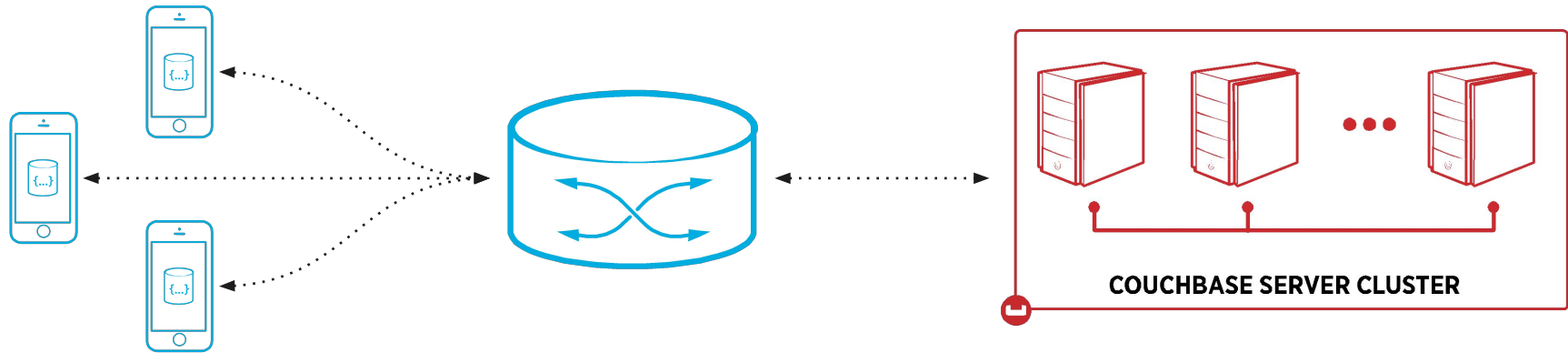
```
{  
  "type": "task-list",  
  "_id": "{owner}.eb6b9e54-6014-...",  
  "name": "List 1",  
  "owner": "user1"  
}
```



```
{  
  "type": "task",  
  "_id": "de305d54-75b4-...",  
  "_attachments": {  
    "image": {...}  
  },  
  "taskList": {  
    "id": "{taskList._id}",  
    "owner": "{taskList.owner}"  
  },  
  "createdAt": "1997-07-16T19:20:30.45+01:00",  
  "task": "Task 1",  
  "complete": true  
}
```

```
{  
  "type": "task-list.user",  
  "_id": "{taskList.id}.{username}",  
  "taskList": {  
    "id": "{taskList._id}",  
    "owner": "{taskList.owner}"  
  },  
  "username": "user2"  
}
```

```
{  
  "type": "moderator",  
  "_id": "moderator.{username}",  
  "username": "user3"  
}
```







# Demo

[github.com/couchbaselabs/mobile-training-todo](https://github.com/couchbaselabs/mobile-training-todo)



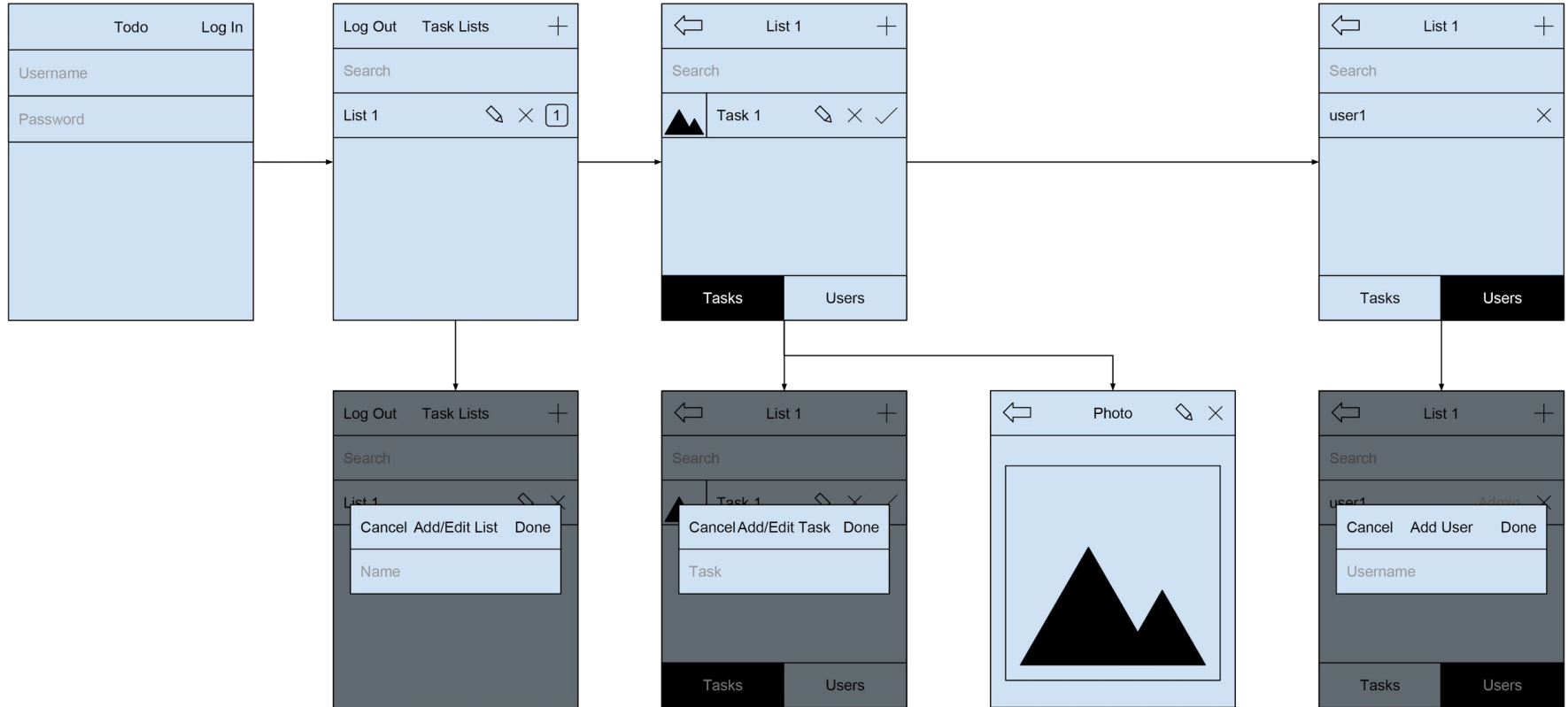
# Write Code!

[github.com/couchbaselabs/mobile-training-todo](https://github.com/couchbaselabs/mobile-training-todo)

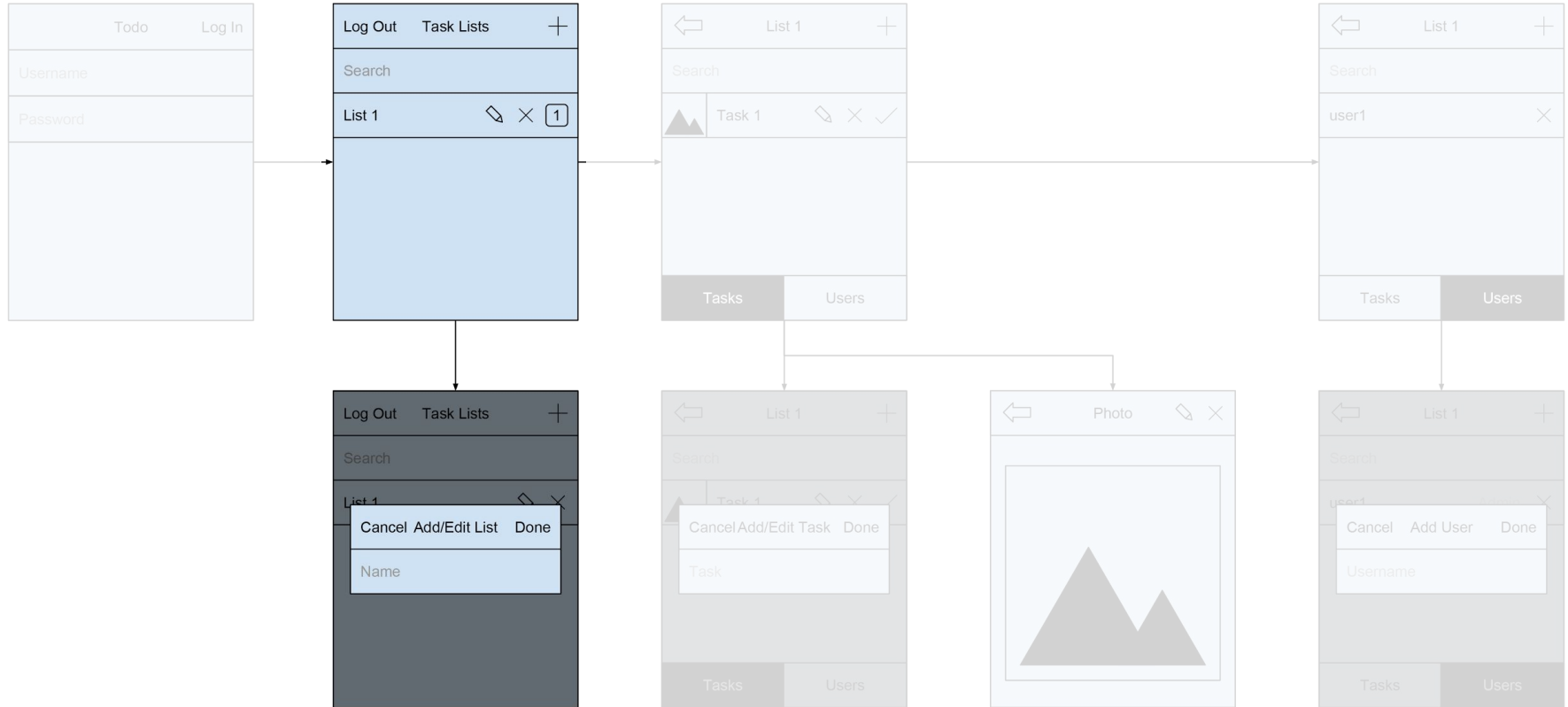


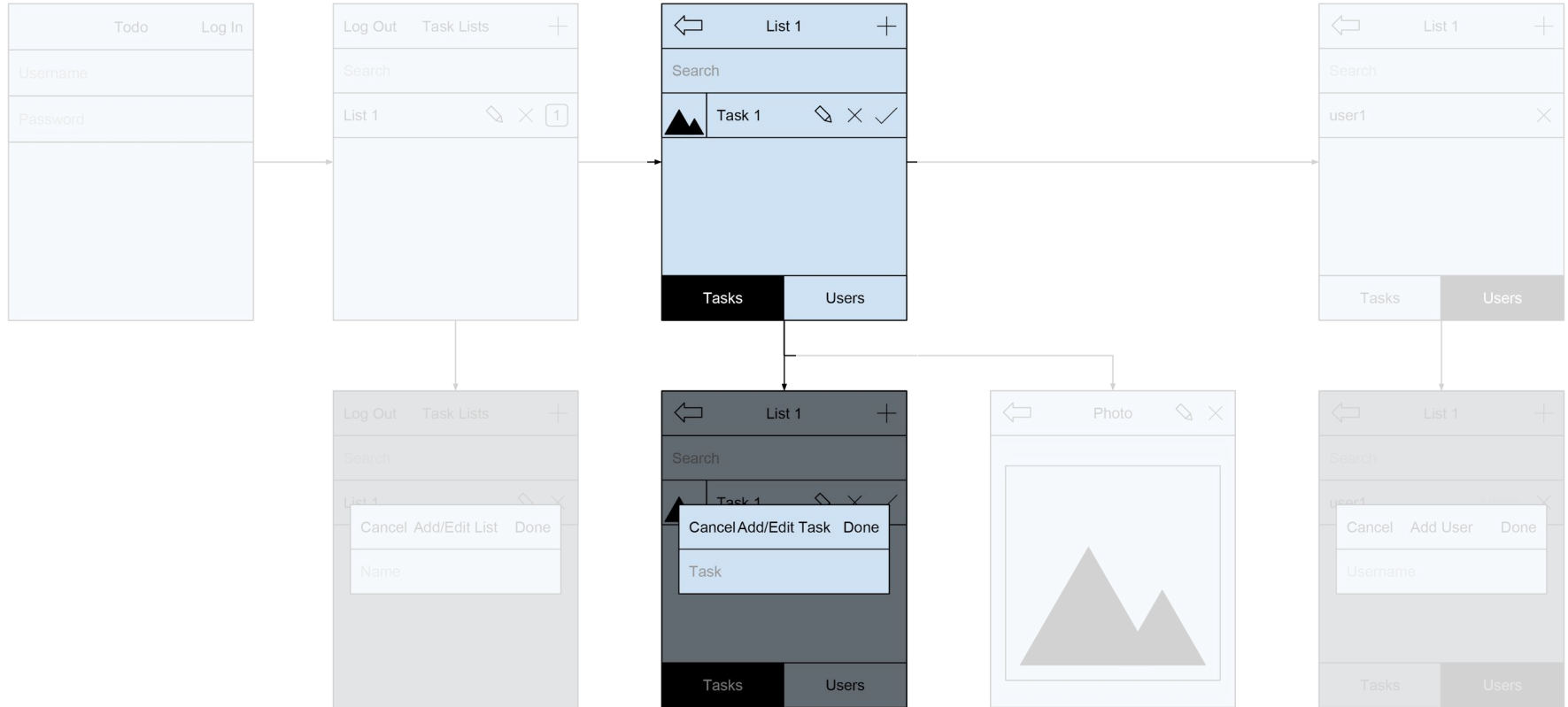
# Build App Using Local Database

# Wireframes & Navigation Flow

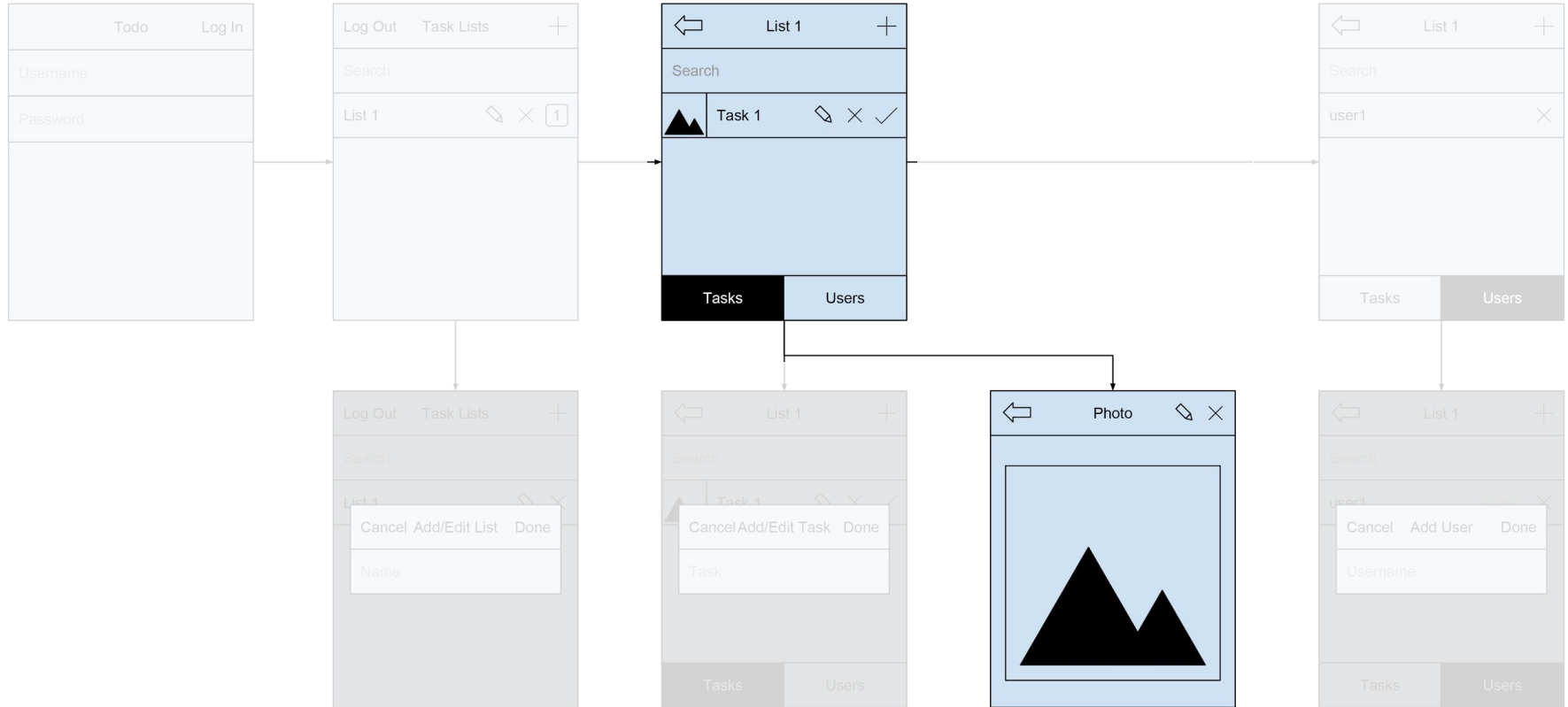


# Task Lists

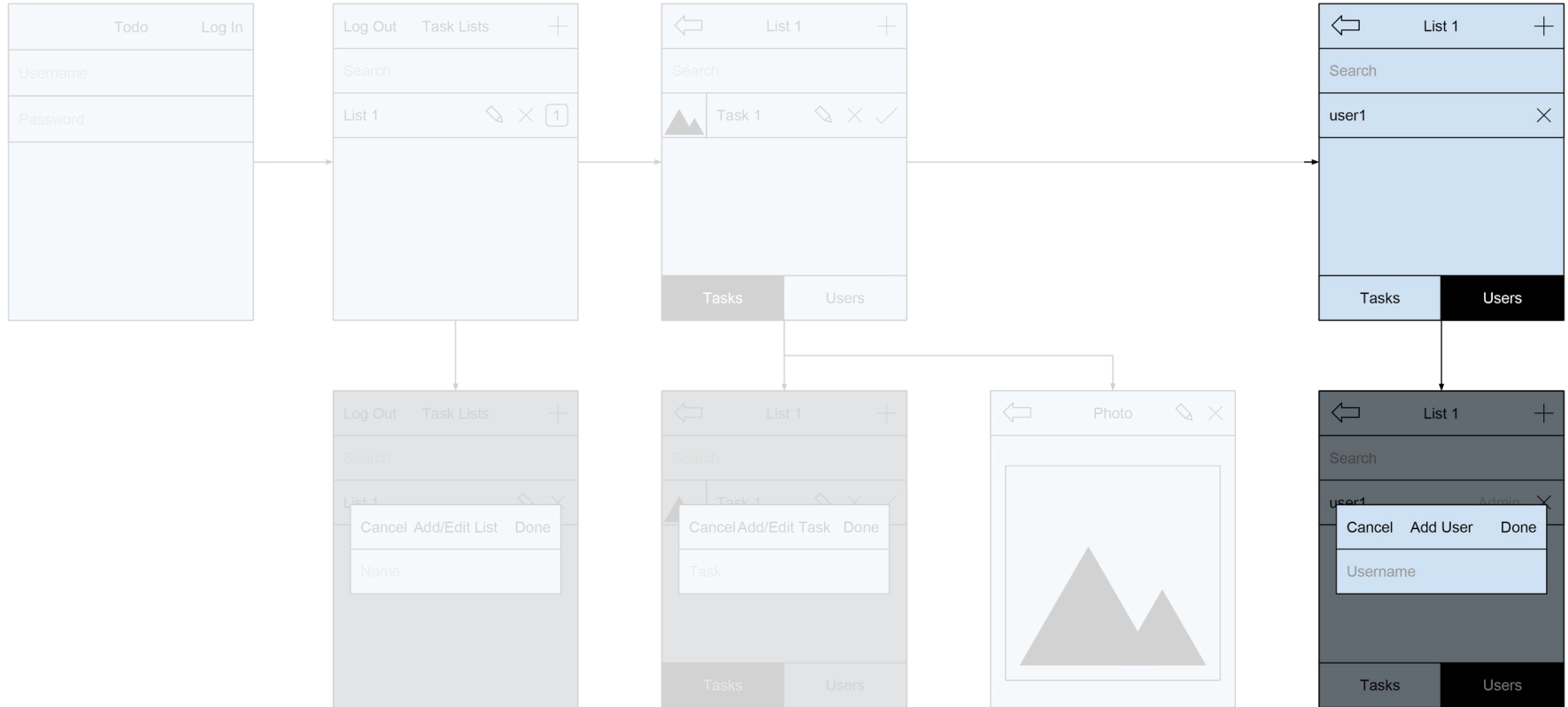




# Tasks: Photo Viewer



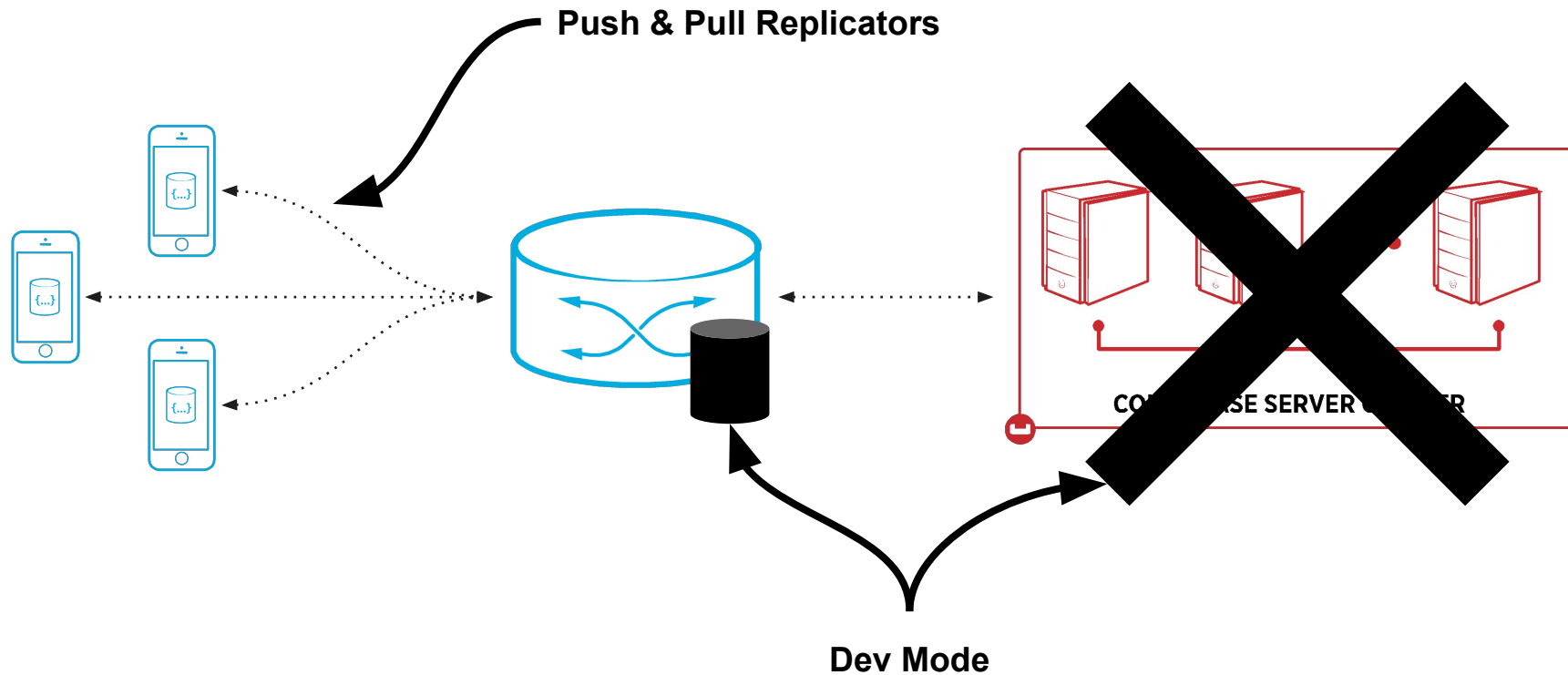
# Task List Users

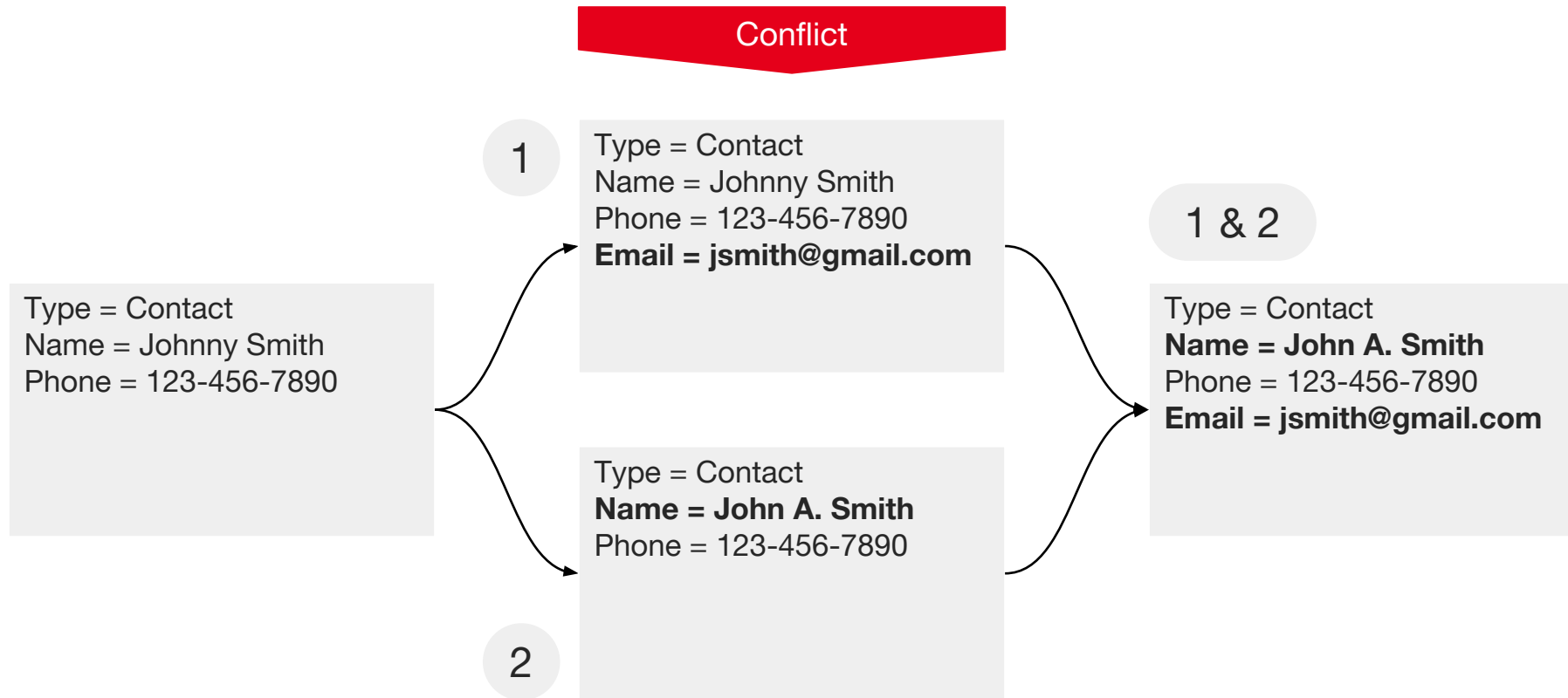






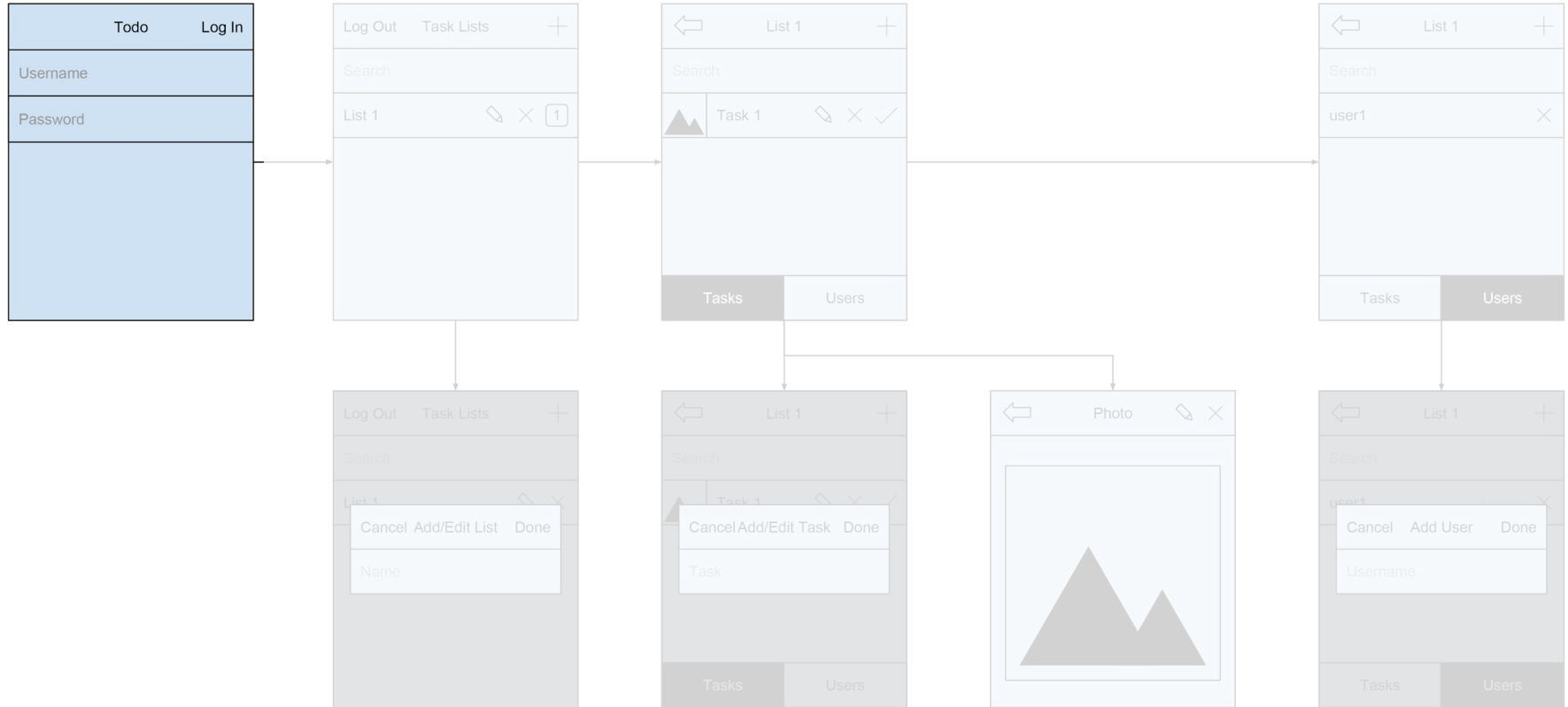
Add Replication







Add Security





- Database Encryption
- Offline Login
- Encryption Key Rotation

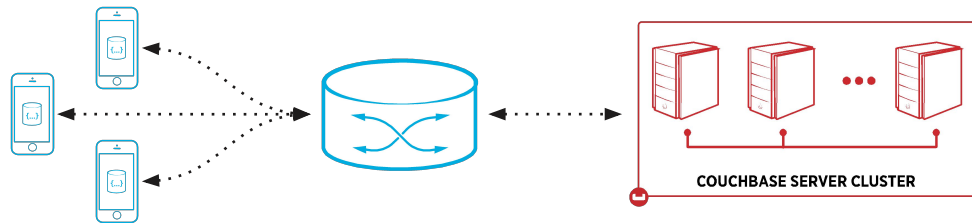


A few more cool things...

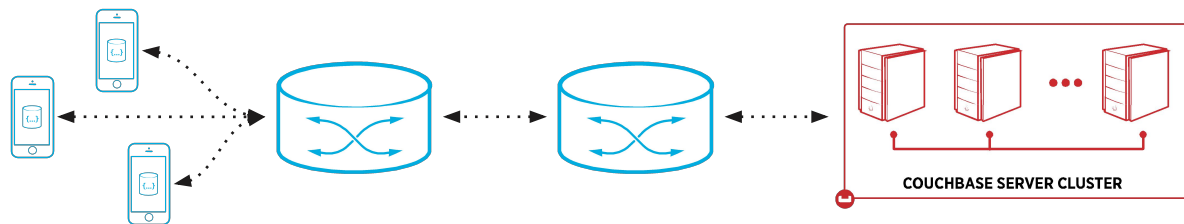
# Deployment Topologies



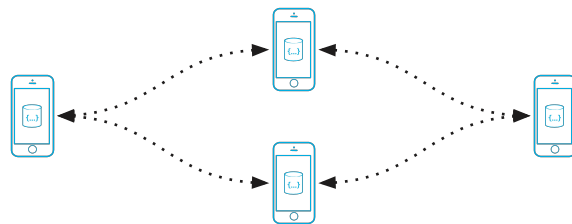
Star



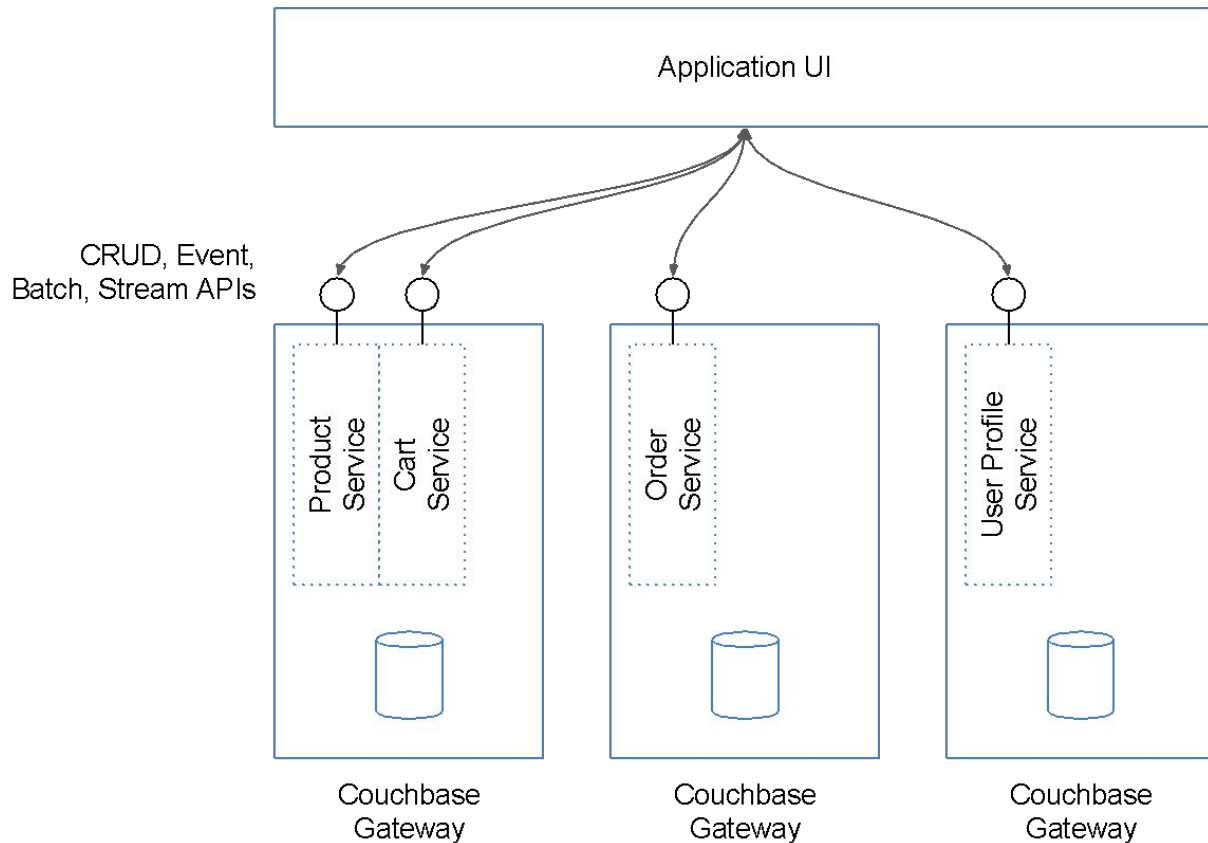
Tree



Mesh







# Meanwhile, over at Ryanair...





[developer.couchbase.com/mobile](https://developer.couchbase.com/mobile)

Be part of our developer community. Sign up in the  
back of the room or at our table.

1st 2 people to come by our table and show us this  
demo working get an Ogio laptop bag.