Project's Architecture

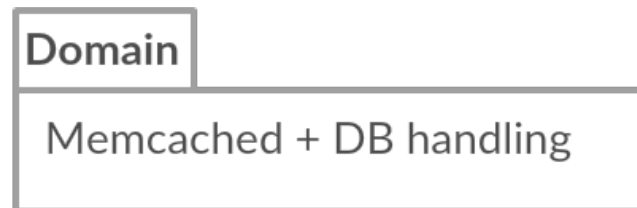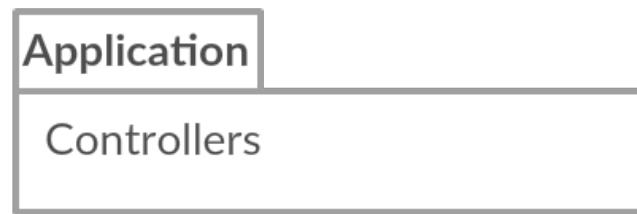## ~ Pinterest ~

Alexandra Ciobica
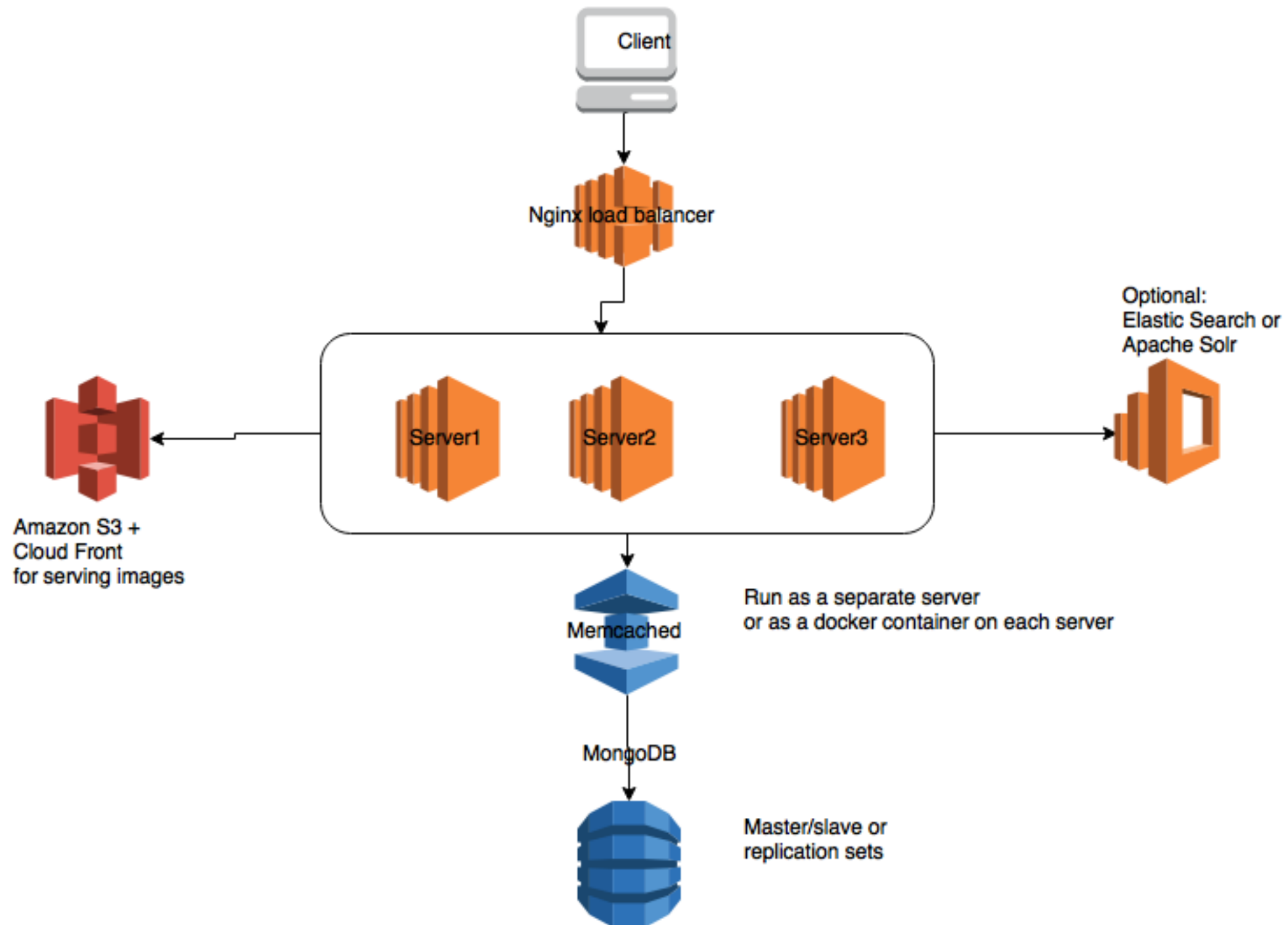
Isac Andrei

Initial Plan

For the development of the project we plan on using:

- Scala with the Play Framework

- MongoDB for the database

- Amazon S3 + CloudFrond for image storage and access

- Memcached for the caching part

- We are still figuring out how to implement the feed

- If we have time we consider implementing a searching functionality using Elastic Search or Apache Solr

Package Architecture

UI

HTML, CSS, AJAX, JS

Application

Controllers

Domain

Memcached + DB handling

Business Infrastructure

Image upload
Feed handling

Technical services

Next slide

dependency

Technical Services

Questions

We had some aspects of which we were not sure and so we came up with a list of questions.

1. Is it better to run memcached as a docker container on each server or as a separate server?

2. Is there any other way to run the database than on a separate server? master/slave or replication sets?

3. Do we need two load balancers for redundancy? (too many virtual machines)

4. Do we need persistent data structures? For the feed? Redis?

5. Do you recommend another Scala web framework(MVC)?

6. Is there an advantage of running multiple docker containers with the same application on the same VM?

7. How should we define development/production environments?