

Organização do Desenvolvimento de Software

MyRecipe – technical report

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Theoretical Global Plan

This Theoretical Global Plan… some explanation.

## Roadmap of the products

The complete roadmap of the products is dependent of the dates that MyRecipe company will require us after the approval of the financing, after the event with the investors, at least in what concerns to the iOS application and to the Android application. However, in the next two images, it is possible to see our milestones proposal, which focus in an immediately starting point with the development of the OFBiz server entities, services and REST component, followed by the development of the Console “Mobile” Application, which must be complete at 4 January 10:00am for the presentation to the investment group at the event.



Figure 1 - The milestones for the four products

The diagram is cut at the middle, and the part that was cut means empty space. In the next image we include the complete diagram, where we lost legibility because of the small letters, but gain in understanding as it shows as the complete view.

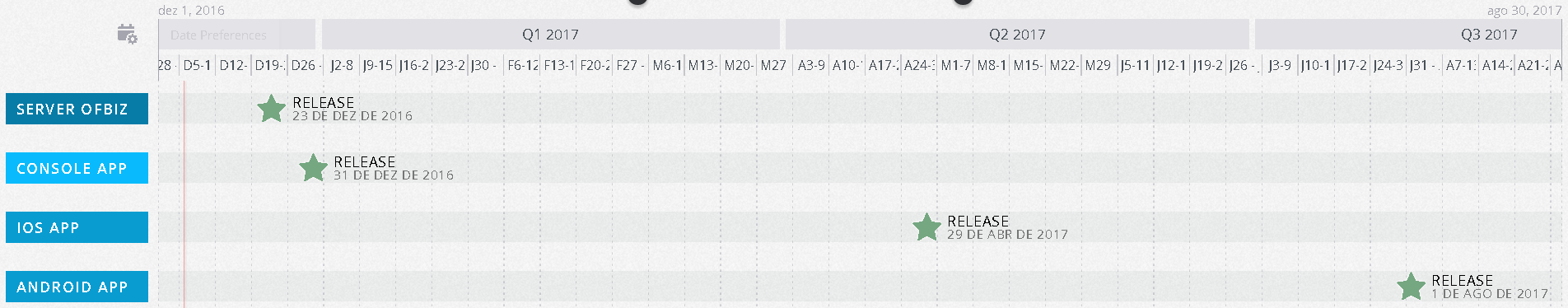


Figure 2 - Complete view of the time lapse

We defined that the iOS application has its development starting at April, the first. This date appear because of the eventual need of the MyRecipe company to complete analyze our proposal with time after the event.

For the Server OFBiz milestone to be accomplished, three parts are to be developed: the part referent to the entities, the part referent to the services and the REST component.

For the Console “Mobile” Application to be ready, two parts are to be developed, respecting to the use cases “Register a recipe” and “View a recipe”.

FALTAM AQUI CASOS DE USO

They need to be ready for the event, so it must start immediately after this document is sent to the company and acceptance is received and must be ready at 3 January.

## Design of the pipeline(s)

For the design of the pipeline(s), we could have some options, but two have DESTAQUE from the others. One could be having only one pipeline for the four products, where we would start all the work with the OFBiz server, then the Console “Mobile” application, then the iOS application and finally the Android application. We consider that, although being possible doing it so, it is not the best solution for our context. So, we will have four pipelines, where the second depends on the first, and the third and fourth depends on the first two.

In other words, the server is the first to be build, tested, and deployed. Only when everything is ok with this product, we advance to the others. In this case, the next is the Console app. Only when both of them passed all the tests, we compile the iOS and the Android app in simultaneous, using parallel feature of Jenkins.

We could also compile the server first, and then, the other three in parallel, but doing the way we are doing, and as the console app is like a replica of the two mobile apps, we ensure that all the communication needed between server and client is working, before the compilation of the real mobile apps.

The idea is this, where the divisions of each pipeline are the various stages, like checkout, build, archive, unit tests, integration tests and deploy.

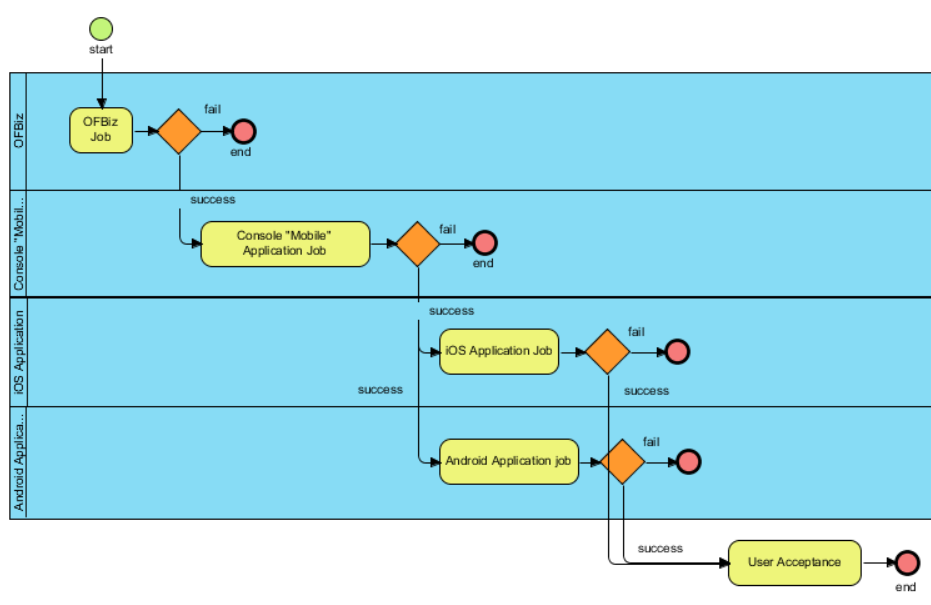
Pipelines are jobs of the type pipeline.

The pipeline workflow:

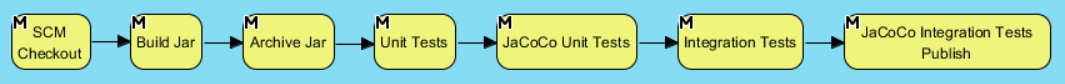
Each pipeline, as this structure and stages:

Here, we present another view, omitting the stages, and showing each job/pipeline:

FaltA NESTE DIAGRAMA REFORÇAR QUE IOS E ANDROID SÃO EM PARALELO



Este próximo diagram está mal, pois faltam partes em paralelo



## Architecture of the solution

## Deployment diagram of the pipeline

## Deployment diagram of the solution

## Structure of the repository