Instituto Superior de Engenharia do Porto
DEPARTAMENTO DE ENGENHARIA INFORMÁTICA

Organização do Desenvolvimento de Software

MYRECIPE – TECHNICAL REPORT

EVARISTO FIGUEIREDO – 1010836
NELSON LOPES – 1160098
GROUP NO. 101 - 2016-2017

CONTEÚDO

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, 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 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.

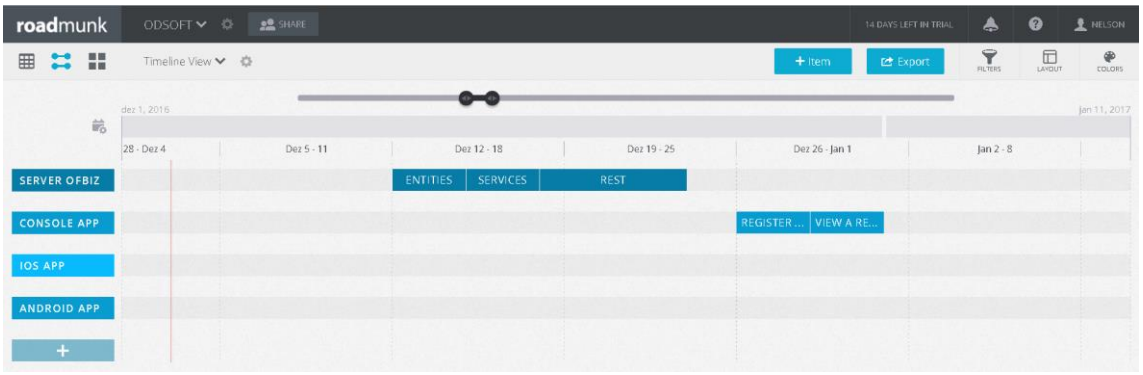
In this first image, it is possible to see the complete roadmap, where the iOS application has its development starting at April, the first. This date appear because of the eventual need of the MyRecipe company to complete analyze our proposal with time after the event.

In the second image, it is possible to see the same roadmap, but with some zooming covering the development part of the OFBiz server and the Console application. They need to be ready for the event, so it must start immediately after this document is sent to the company and must be ready at 3 january.

Within the server, we will start the development of the Entities part, then the Services part, and finally the REST part.

After a short pause for Christmas, we start the development of the Console "Mobile" Application, first with the "Register a recipe" use case, and then with the "View a recipe" use case.

HÁ MAIS CASOS DE USO PARA O THEORETICAL PLAN. VER.



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.

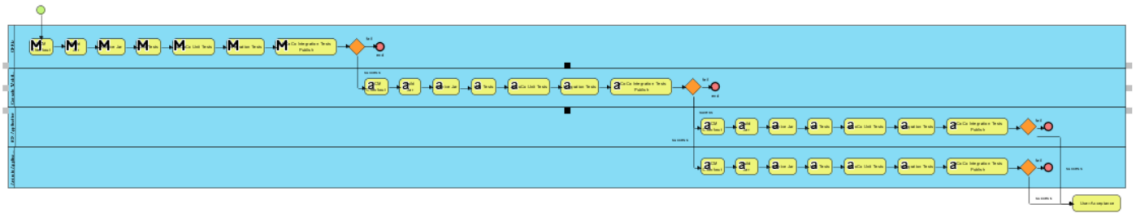
In other words, the server is the first to be build, tested, and deployed. Only when everything is ok with this product, we advance to the others. In this case, the next is the Console app. Only when both of them passed all the tests, we compile the iOS and the Android app in simultaneous, using parallel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

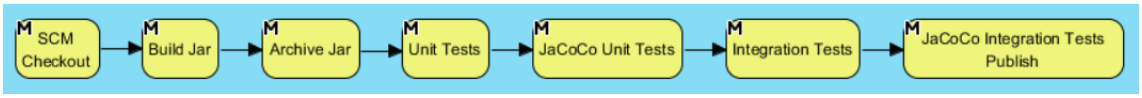
The idea is this, where the divisions of each pipeline are the various stages, like checkout, build, archive, unit tests, integration tests and deploy.

Pipelines are jobs of the type pipeline.

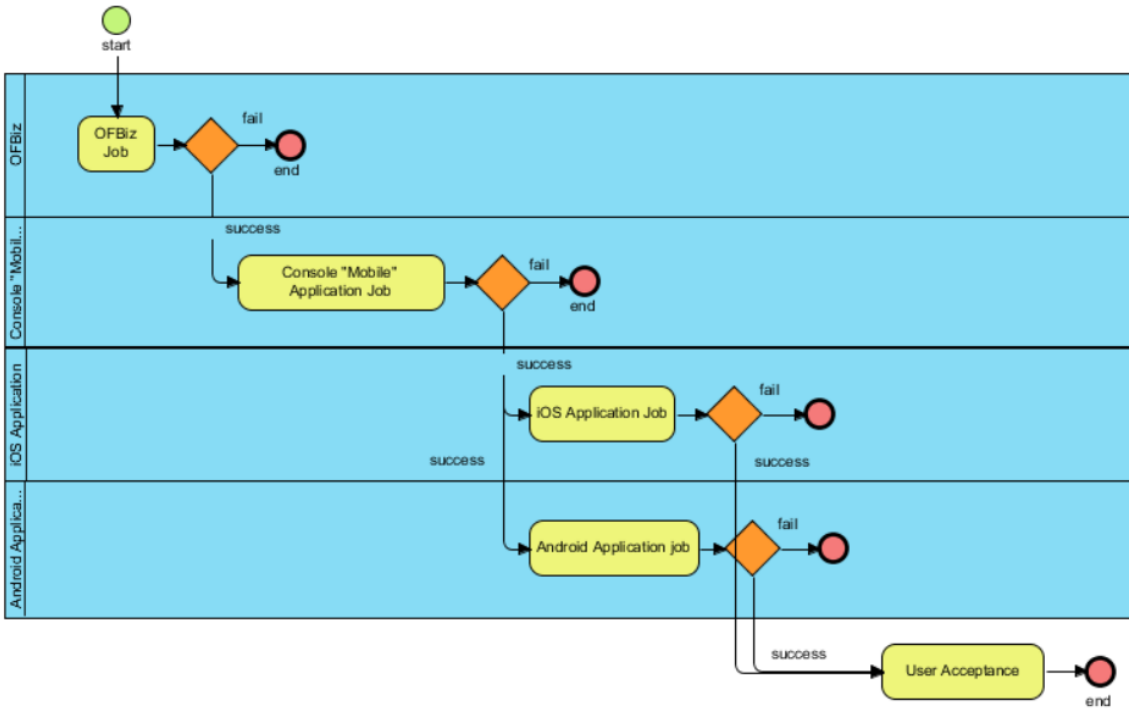
The pipeline workflow:

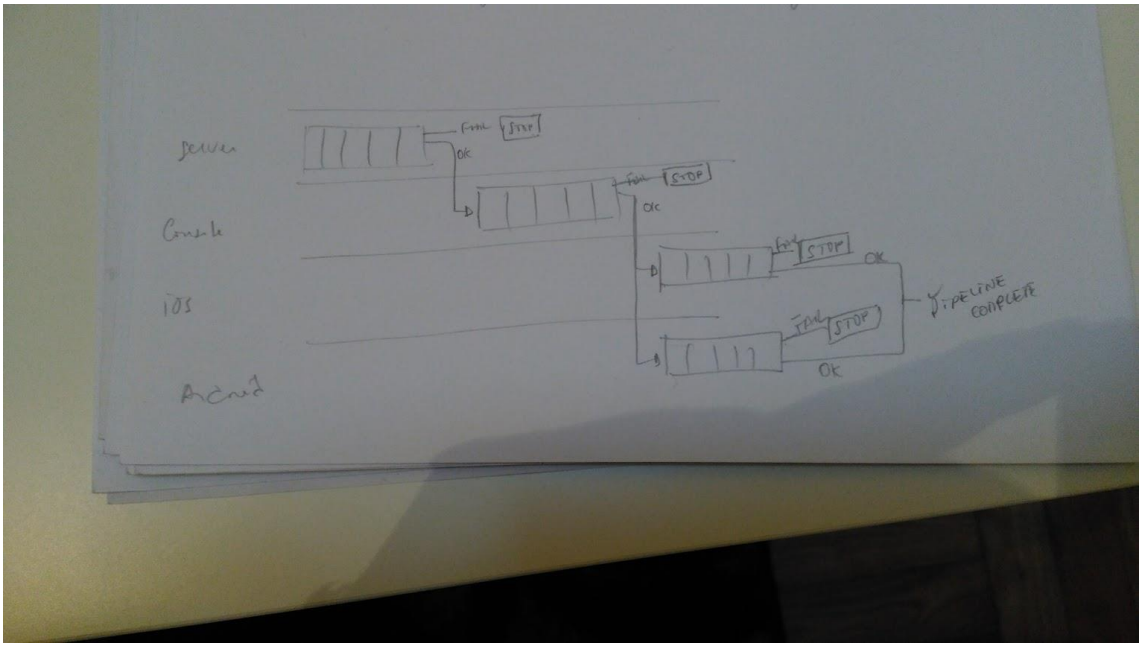


Each pipeline, as this structure and stages:



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





ARCHITECTURE OF THE SOLUTION

DEPLOYMENT DIAGRAM OF THE PIPELINE

DEPLOYMENT DIAGRAM OF THE SOLUTION

STRUCTURE OF THE REPOSITORY