



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.

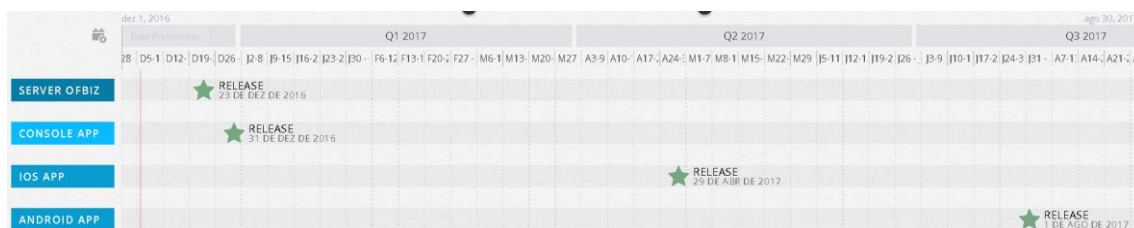


Figure 2 - Complete view of the time lapse

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) there are some options, but two stand out from the others for the advantages they offer.

One of the solutions could be to have a pipeline with the four products, where the first one to be compiled was the OFBiz server, then the "Mobile" Application Console, then the iOS Application, and finally the Android Application, all in sequence. However, we consider that, although this solution is possible and it works, it is not the most adequate solution to our problem.

The two options that we consider the most appropriate are:

- Compile the OFBiz server and then all three other applications concurrently/in parallel;
- The Console "Mobile" Application depends on the OFBiz server and both iOS Application and Android Application depends on the Console "Mobile" Application and run in parallel – this was our choice, as we assume that it is the more adequate solution to our problem, because as the Console "Mobile" Application is like a replica of the other two mobile applications, we ensure that all the communication needed between the server and the client is working before the compilation of the real mobile applications.

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 Console "Mobile" Application and only when everything is ok too with this product, we compile the iOS and the Android app in concurrency, using the parallel feature of Jenkins.

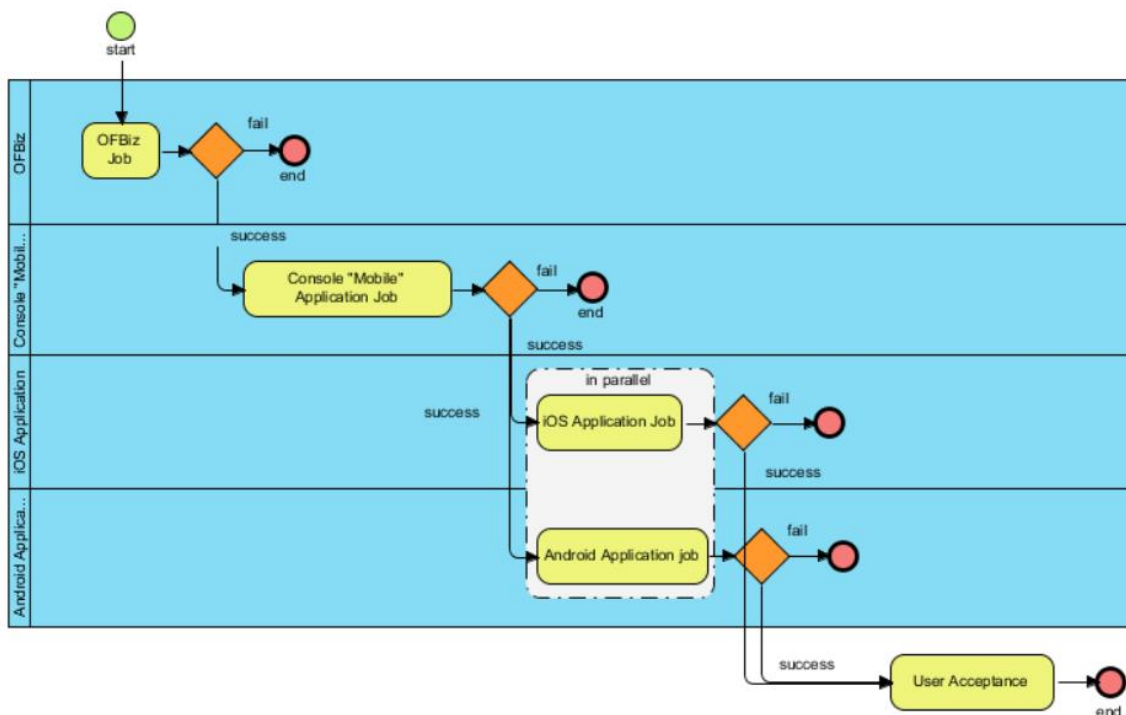


Figure 3 - Job Sequence where it is possible to see the iOS and the Android pipelines running in parallel

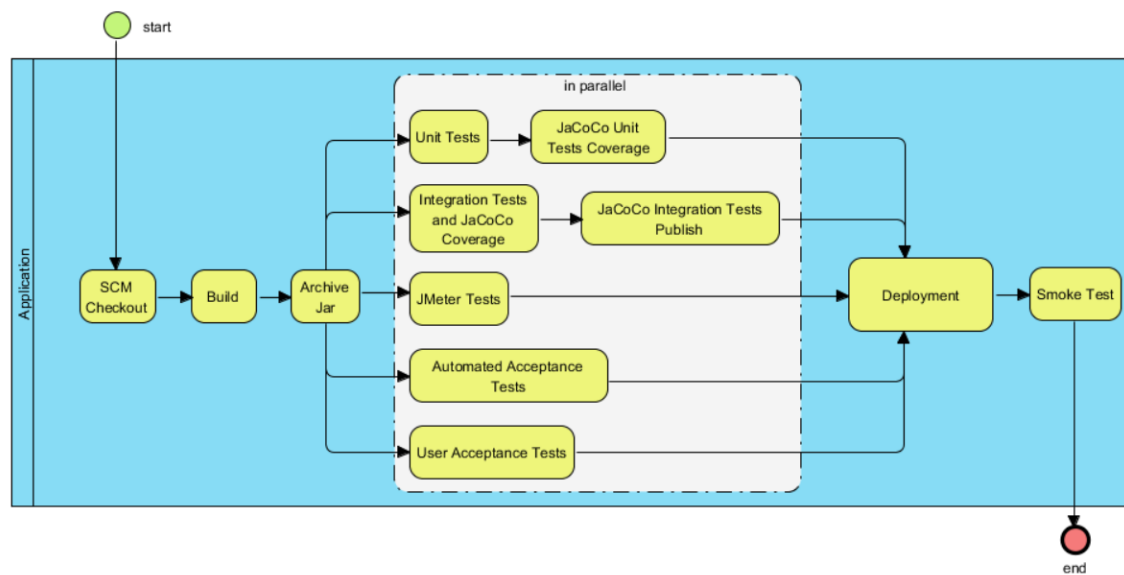


Figure 4 - The flow of each pipeline and product

ARCHITECTURE OF THE SOLUTION

DEPLOYMENT DIAGRAM OF THE PIPELINE

DEPLOYMENT DIAGRAM OF THE SOLUTION

STRUCTURE OF THE REPOSITORY