

Individual report

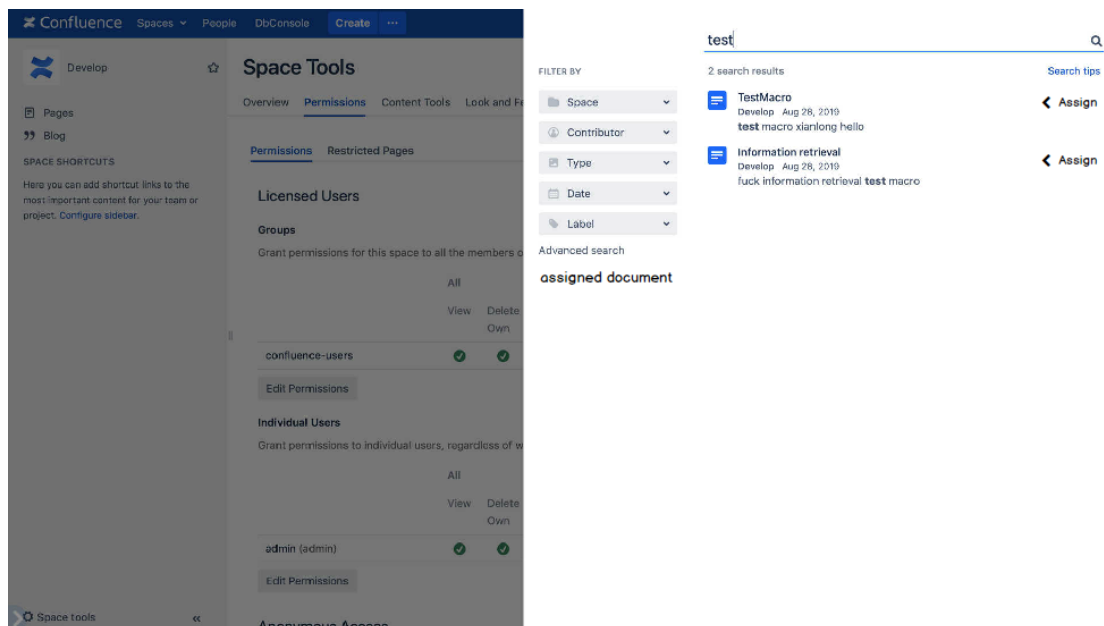
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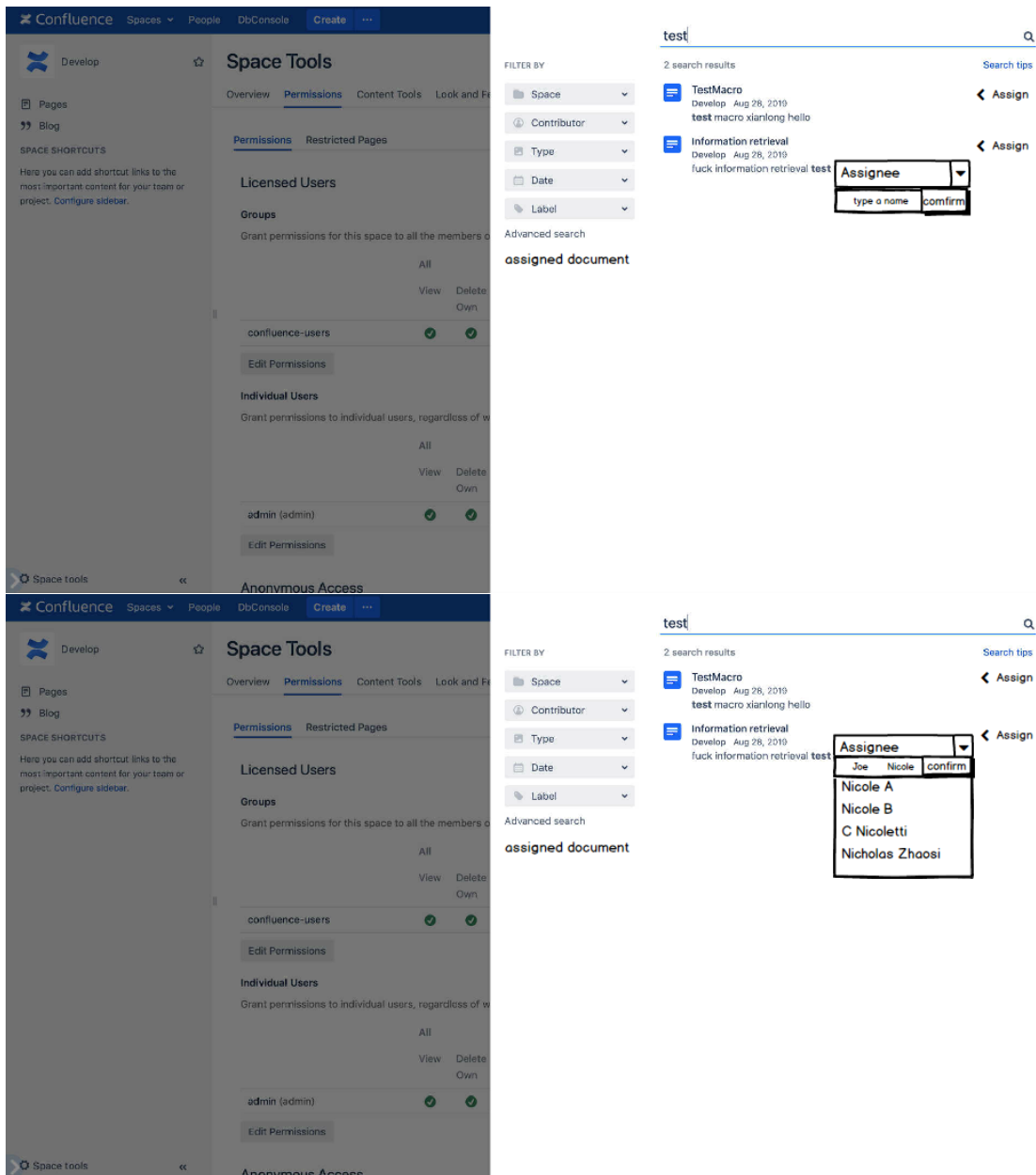
Technical contributes:

In terms of technical aspects, I devoted myself to the demo of our project.

Demo:

After determining the direction and scope of our project, we can decide what functions our prototype should have. This task is extremely important and necessary that requires me to design an attractive UI for our project as while as implement the functions from users' perspective. I was assigned to finish the function of quick search assign. To complete this task, I searched many resources from internet to make the interface are easier to operate and discussed with my teammates to make the UI unify. These graphs can be evidences to prove the contributes.





Non-technical contributes:

In terms of non-technical aspects, I wrote the week5 status report and minus of our group. In addition, in this group report, I also finished many parts.

Week5 Documents:

Our team has weekly group meeting on Monday and client meeting on Thursday. Every team member will attend the meetings every week and we need a person to record the content of meeting. We use a rotation system to complete them. On week5, I finished the reports and minuses. These links are the evidences to prove these contributes.

https://bitbucket.org/Arthur_Zhao/quokka/wiki/Week5%20Team%20Meeting

https://bitbucket.org/Arthur_Zhao/quokka/wiki/Week5%20Client%20Meeting

https://bitbucket.org/Arthur_Zhao/quokka/wiki/Week5%20Project%20Status%20Report

Group report:

Group report is not only one of our assignments but also presents our subject idea, so it is very significant. We are a team, therefore team members need to discuss and communicate to each other about our project to complete this report together. After the communication, we wrote this report separately and what I did are introduction and background research, tools used to build system and challenge/risk analysis. The parts in this report you can see are the evidences of these contributes or you can see the screenshots.

1. Introduction

As an outstanding collaboration software, Confluence has provided hundreds of enterprises helps to manage their intelligence resources. However, the search engine has a bottleneck of its efficiency. The company of Confluence, Atlassian has been working on improving the performance of it for years by enhancing its search algorithm. However, the search engine is still required to be improved and this is our project goal. This report will show the details of the project.

As for the user stories, we have already finished UI related ones. In detail, the following user stories.

- As a Confluence user, I want to view highlight results easily so that I do not need extra time to find them.
- As a team leader/employee, I want to be able to highlight the contents I want easily so that no extra time is spent on filling forms related to the function.

The user stories do not serve as major ones and minor risk is evaluated. It is suggested by the client at the 2nd client meeting¹.

5.1 Prototype: Balsamiq Mockups 3

Our group uses Balsamiq Mockups 3 to design our prototype and preview our project results.

5.2 Language: Java, HTML/CSS, JavaScript

Java is the language for backend development.

HTML/CSS are the languages for designing front end development.

5.3 Source code management: IntelliJ, Bitbucket

Team members use IntelliJ to write Java code and run the program in it.

Bitbucket is an outstanding software for team collaboration, version control and source code management.

5.4 Database tools: Confluence Query Language (CQL), Search-V2, Postgre

Confluence Query Language (CQL) is a high level database query language of Confluence that is necessary for us to build our system. In addition, Search-V2 is low level database query language of Confluence which is not recommended to use.

We choose Postgre as our database.

5.5 Other tools: Confluence SDK, Junit

Confluence SDK is the core of our project to make a plugin for our project.

Junit is made use of testing our program.

Risk No.	Risk Name	Risk Description and Impact	Mitigation Plan	Impact Level and Likelihood
R01	Time	Our project has been behind schedule so far. It is likely that we cannot finish our project within limited time.	Team members should increase the number of meetings and improve the efficiency.	Serious-High
R02	Technology	Our team members lack some knowledge about developing our system, it will result in that we cannot complete our project.	Team members should learn more knowledge which is relevant to the project and ask client for help.	Serious-High
R03	Instability	The support for MacOS of Confluence is not perfect and this will cause software crash.	Team members should reduce the use of MacOS and use Windows whenever possible.	Minor-Medium
R04	Management	Team members are not familiar with the project management.	Team members should obey the management of the team leader. The leader should make a proper management plan.	Serious-Low
R05	Emergency	Some emergencies may occur during the process of development and these emergencies may lead to project delay and some results we cannot predict.	Make a plan to deal with some emergencies according to possible factors.	Limited-Medium

Issues:

According to the requirement of this unit and the tasks we need to solve, I created many issues in Bitbucket for our group to remind us what we should do next and solve it in time. This link illustrates the evidences which prove I did it.

https://bitbucket.org/Arthur_Zhao/quokka/issues?responsible=5d51055bdbb98c0d9c22c474

Individual reflections:

Version control, coding styles, XP:

In terms of XP (Extreme Programming) aspect, some detailed user stories have been made and they are always the guidance to make a direction for us and help to remind us of following them.

Challenges met in the project:

Initially, we cannot determine a precise direction and cannot think out a good solution for both client and our group. It spent us several weeks to decide our final scope, therefore, it

led to our project behind schedule. However, every team member tries their best to the project.

Another challenge we met is that the UI is extremely hard to change. It means that we cannot achieve the effects that we are expected and we can only change some simple things from backend instead to implement the function if we cannot change the user interface.

How these were tackled and the outcome:

On the one hand, the first challenge we met is about time and schedule. We decided to make a plan for our project and follow it. In addition, we should increase the number of meetings and work together to contribute to the project.

On the other hand, changing UI can be solved by client' s help. He sent email to tell us he had asked for his college who did the search function of Confluence to change some default settings, and then we can change the UI now.

Achievements:

We have completed our first UI, and I have done the quick search assign. Furthermore, we have many documents for our team meetings, client meetings, issues we met and reports. I participated every part of these documents.

What you would do differently in future:

First of all, I should search more resources to learn more knowledges about this project and spend more time on it since our project is behind schedule. In addition, learning how to manage a project and keep it going in normal pace. Besides these, I want to continue to live in harmony with the team members and client.

Your role in the group and as a software engineer:

I am a team member of our group. I obey the instructions of my team leader and do tasks what I was assigned.

As a software engineer, I am programmer, UI designer and tester. Although we did not do much programming, I will participate to write codes and test the program. As a UI designer, I have designed 3 UI pages.