**RESUME RANCANG BANGUN SISTEM MANAJEMEN PROYEK DAN KOLABORASI TIM DEVELOPER**

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**Abstract**

This journal will discuss about the problem with the team of developers and the communication problems they face during their project’s life cycle . The solution we came up with is a web application that has an integrated chatting system which has been tested with satisfying results

**Preliminary**

The rising demand for software development made the teams doing the projects are required, to be more time efficient. Altough working face to face has it’s own benefits, having a groupware system would have a couple of benefits such as:

1. Provide’s persuasive, clear, and fast communication
2. Made communication accessible from anywhere
3. Saves time and money when collaborating and coordinating during group work

**Reasarch methods**

a. Data collection

Qualitative data in the field study is executed by observing the initiation process, planing, execution, and the closing of the project.Nicholas’s literature study was executed in a research(2012);and Nistor on (?). The Malang Montazze Studio, web division’s project manager was interviewed with the hope of understanding the practices that goes into project management in the studio.

b. System design

Gatherd data will be processed into an *Entity Relational Diagram(ERD),* The data is then made into features that cover’s the Work Breakdown System, which will visualize all data types that is going to be processed by the sytem, and lastly Use Case Diagram which has the job of visualizing the user access level.

c. System development

We will be using Node JS with *java script* as theprograming language of choice, MonggoDB for the database, and HTML 5 WebSocket that will be centralized into Socket.io.

d. System testing and evaluation

Every frature will be tested to figure out the impact the system has on the outcome of the finished product. If the system has erors on some or all of it’s features then we have no choice but to reevaluate the sysyem.

**Results**

Project initiation feature 

Client and team management feature

Milestone feature 

Fitur task management 

Issue management featureTo do list feature 

Project calendar feature 

history feature 

Daily activity feature 

Notes feature

File attachment feature 

Discussion feature

**Functional system testing**

We did a fuctional system test at Montazze Studio with a project scenario named Loakin. Loakin is a thrift shop website. The features that it requires are facebook authentication, inventory management, image uploader, user account management, and lastly a product search function. This project started on july 16th 2014 – july 22nd 2014, lead by 1 project manager, 2 team members, and supervised by 2 clients. The result of the test shows that the system performed as expected in terms of functionality and output.

**Discussion**

In the post test phase we gave a survey to Montazze Studio’s Chief Technology Officer that acted as the project manager to figure out if the implementation, was appropriate to the project’s life cycle and what is the obstacles that the project has before the implementation. from the survey results that we got, we noticed that there are a couple of problems during the planning phase where it is difficult delegating tasks to each team member who had a hard time communicating whilst the projec’s execution.

The problems up above can be solved by the system. The problem with delegating tasks to team members can be solved by the task management feature, where the project manager can delegate more detailed tasks to each team member. And for the problem with communincation, it can be solved with the real -time chat feature that was integrated into the discussion feature. so we can concluded that using a project management system for developers can be realy helpful in terms of client communication towards sudden changes so that the project can be more time efficient.

**Conclusion and advice**

**Conclusion:**

1. The finished management system worked excellently and produced the expected output that helped the users manage the project

2. The live chat feature helped the team work more efficiently by not having the need to meet face to face so that they can focused on finishing the project

3. The maximum potential of this system can be seen when the users are working on a large scale project with more team members to manage and more tasks to compleate .

**Advice:**

The system’s development should move towards mobile application, the reason for this is that mobile application is on the rise and it has the push notification feature that can be added