Sports Center Management Software Configuration/Change Management Report

1. Introduction

In this document we explain fundamentals of the change requests. All change requests must be doing with using a template format down below and archived. We also define an evaluation chart of the change request.

2. Changing Process

In the planning we define a main role for each member of project. While changes affect all members of the group, each member has right for the request of any change. Requesting is a process. So, all members of the team must follow rules while requesting a change. Then, change request's evaluation step will be begin. Request must be analyzing by the project manager and present vote to team members. If enough votes collected while voting process, we pass next level for evaluation. After applying a change request, we test it for validity. Finally, we check the test result and with respect to that test result, applying or cancelling the request. Except project manager, other members of the project must give a change request to directly project manager. Project manager keep tracking all the change request even if the change applied or not.

After third delivery and fourth delivery we make group meetings every three days of a week, so with a lot of communication in verbal way, changing comes in verbal way. In third delivery we specified a change format with a template but changing happen so fast and evaluation and testing of a request takes very short time in meetings. We decided to change requesting method, verbal way is much more efficiently used in meeting. Change evaluation stays same, group members offers a request and manager of the group evaluate and make a vote, if request collects enough votes, group members test it. Change's validity depends on the testing, by the test result we apply it or not.

After fourth delivery, our teaching assistants warns us for using GitHub more properly in group projects. So, we use branching system in GitHub. Requesting and keeping track of the requests gets easier by using this feature of GitHub. Also, our backend and frontend source codes stay in different repositories. Mobile application is connected to android studio and our mobile developers works in the separate repository for preventing confusion between unnecessary documents and android source codes.

Backend codes stays in separate repository and change management of them done by GitHub. In meetings frontend developers made a request for change in backend, evaluation and testing is the same as other changes. Backend codes must have uploaded to server.

Our server works with java spring and MySQL for providing backend to mobile application. If a change must occur in server side, server side and backend developers of the project work synchronized and keep each other informed. While server side is a challenging part of the project, java spring codes and uploading them to the server mostly doing in group meetings.

Our database changes mostly doing in meetings, our server connected to a domain and we can control it through MySQL workbench, every changing goes immediately to server. If any group member thinks that manipulate entities in database, he/she can say in meeting evaluation and testing is faster than other changes. Management of the database changes is quite difficult. Because we work on a server, any changes in the server does not recorded on GitHub or any similar place. Our servers made backup every week, if any error occurs in database and group members can not handle it properly, server-side developers restore the server by using backup.

3. Change Evaluation Flow Chart

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                              ●
                              │
                              ▼
                    ┌──────────────────┐
                    │ Change requested │
                    │   and recieved by│
                    │  project manager │
                    └──────────────────┘
                              │
                              ▼
                    ┌──────────────────┐
                    │   Analization    │
                    └──────────────────┘
                              │
                              ▼
                    ┌──────────────────┐
                    │  Offer to vote   │
                    └──────────────────┘
                              │
                              ▼
  ┌──────────────┐    No    ◇
  │ Cancel the   │◄──────── Passed?
  │   request    │          ◇
  └──────────────┘          │
                          Yes│
                            ▼
                    ┌──────────────────┐
                    │ Apply the change │
                    └──────────────────┘
                            │
                            ▼
                    ┌──────────────────┐
                    │     Testing      │
                    └──────────────────┘
                            │
                            ▼
               No          ◇
       ◄────────────────── Passed?
                            ◇
                          Yes│
                            ▼
                      Successfully
                        Applied
                            │
                            ▼
                            ◉
```