WEB Application - Readme file

Known Issues:

1. Blocking the option to select 'head' as branch name.
2. When watching old commit's files after that watching current file system is impossible, **Need to refresh page.**
3. Sometimes the system will show error even though the action executing well.
4. Somehow the system throws exception when deleting files after server is shutting off.

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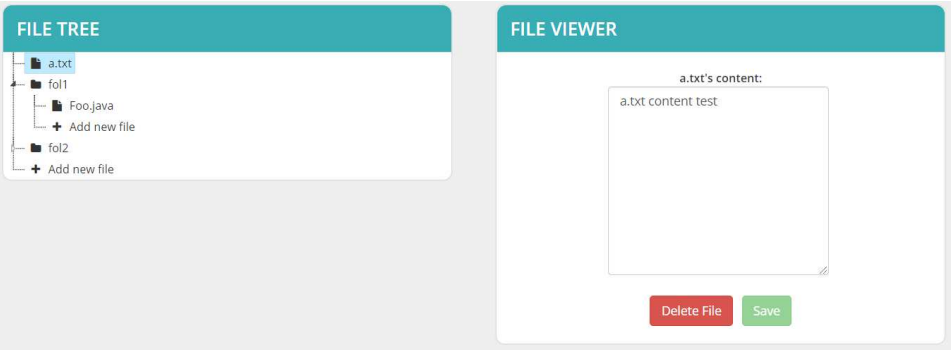
Bonuses:

8 Real file system

User can watch the files from commits or the existing file system in tree view.

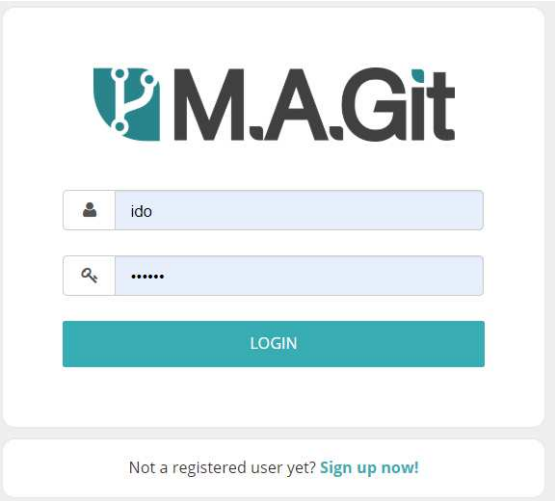
Also, can add, edit and delete files very easy:

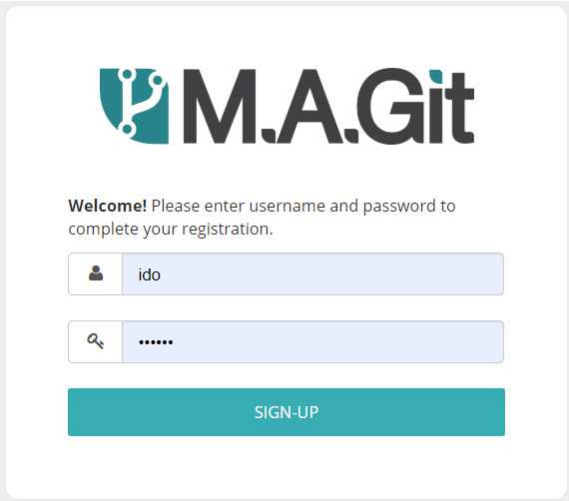


Application Explanation:

Login\Signup pages

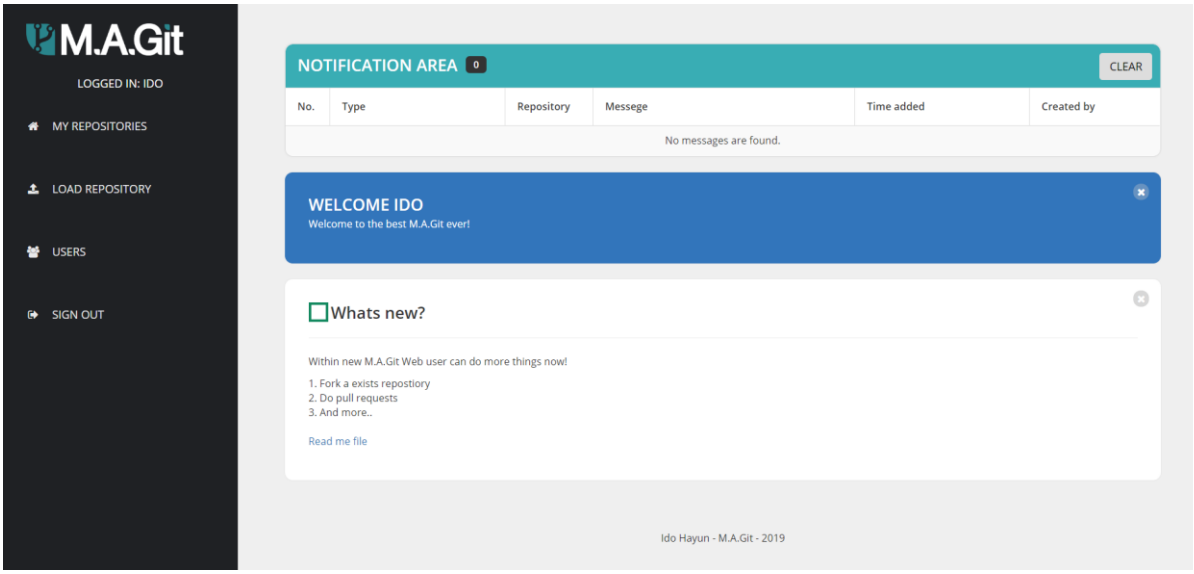
The intro page of the website.



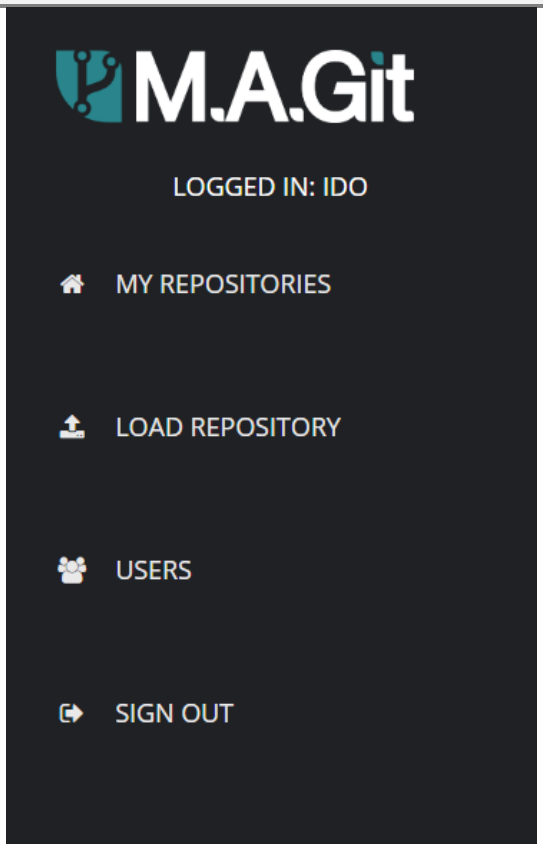


1	Login Page (left picture) – User will need to supply username and password, when the password and username are match the user will redirect automatically to the main page of the website.
2	Signup Page – Allow to new user to join M.A.Git and enjoy the easy life of version control system. When the user enters username and password (and hopefully the username is available) he will redirect automatically to the main page of the website.

Main window – Know the app



Left menu



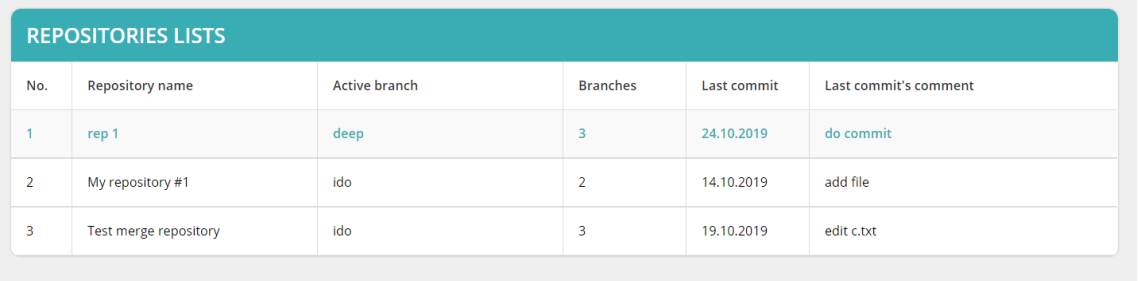
My repositories – Allow to user to watch all his own repositories (original and forked)

Load repository – opens modal window and allow to upload a new repository from XML file.

Users – in this section user can watch all registered users in the system and watch their repositories.

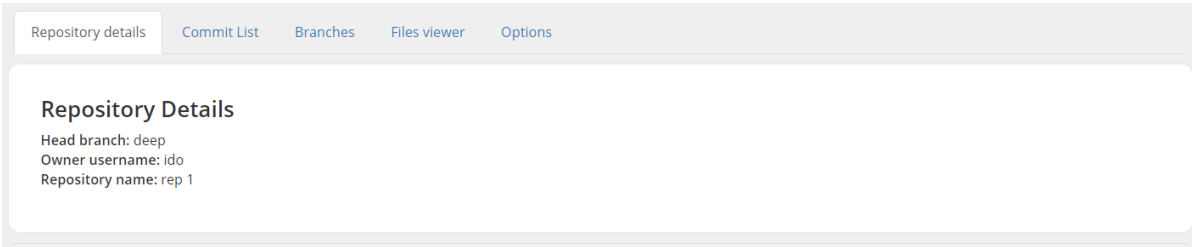
Sign out – Sign out !!!! (from the site)

My Repositories page



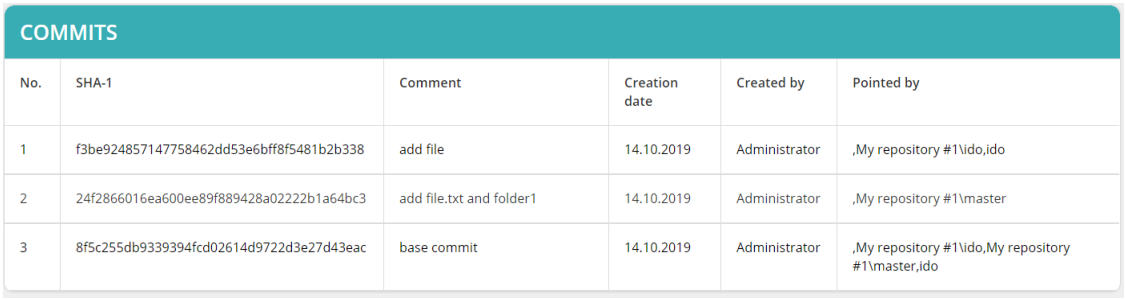
In this page user can view all his repositories and by click on each he will redirect to repository manage page.

Single Repository – TAB 1: Repository details



By clicking on each repository from the previous screen (My repositories page) User will be redirect to this page, allow him to watch and edit repositories files and do more things. In this specifically screen (like picture above) user see the basic repository details (if this repository is tracking beside the header 'Repository Details' will appear a badge:

Single Repository – TAB 2: Commit List



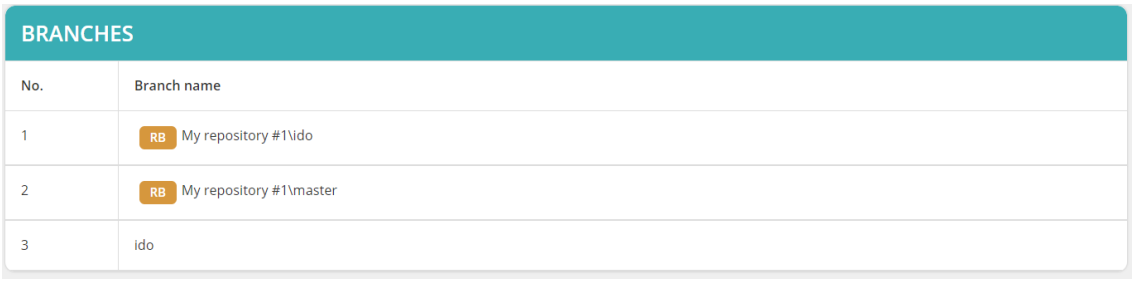
COMMITS

No.	SHA-1	Comment	Creation date	Created by	Pointed by
1	f3be924857147758462dd53e6bff8f5481b2b338	add file	14.10.2019	Administrator	,My repository #1\ido,ido
2	24f2866016ea600ee89f889428a02222b1a64bc3	add file.txt and folder1	14.10.2019	Administrator	,My repository #1\master
3	8f5c255db9339394fcd02614d9722d3e27d43eac	base commit	14.10.2019	Administrator	,My repository #1\ido,My repository #1\master,ido

Single Repository – TAB 3: Branches

In this tab user can watch all commits in the history of the repository (the accessible only).

User can click on each of them and watch the files that layout from the selected commit.



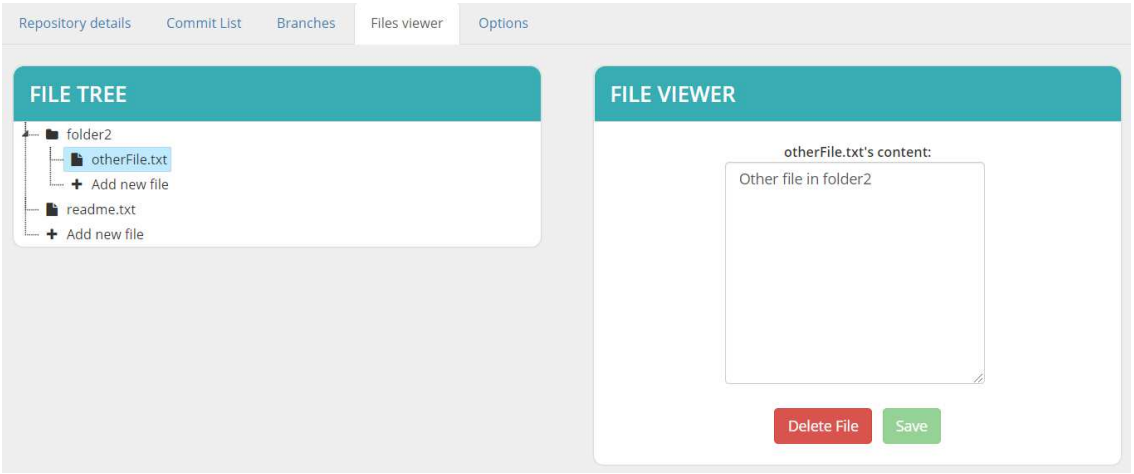
BRANCHES

No.	Branch name
1	RB My repository #1\ido
2	RB My repository #1\master
3	ido

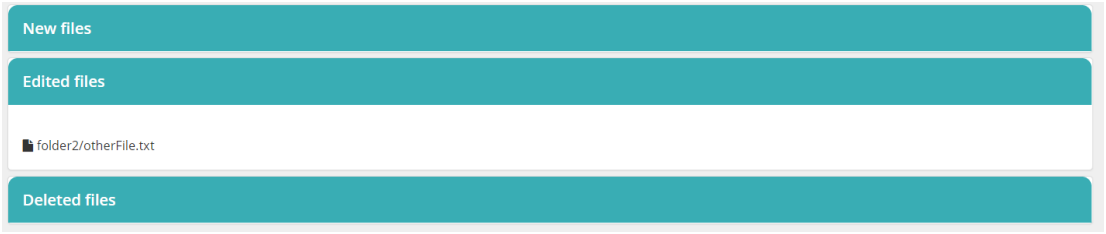
Single Repository – TAB 4: Files viewer

In this tab user can watch all branches in the repository include the RB one.

No special tag for RTB branches.

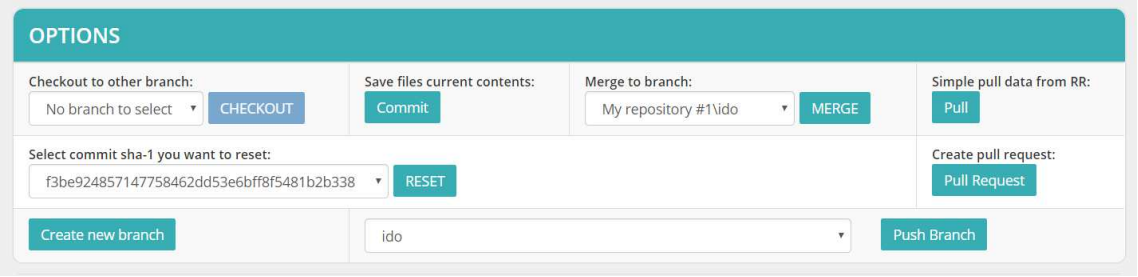


In this tab user can see all files in the system, with the ability to edit, delete and add new files. Also, when there is opened issues (WC is dirty) user can watch the current status:



When clicking on each of the headers all files\folders that related to the specific tab will show up.

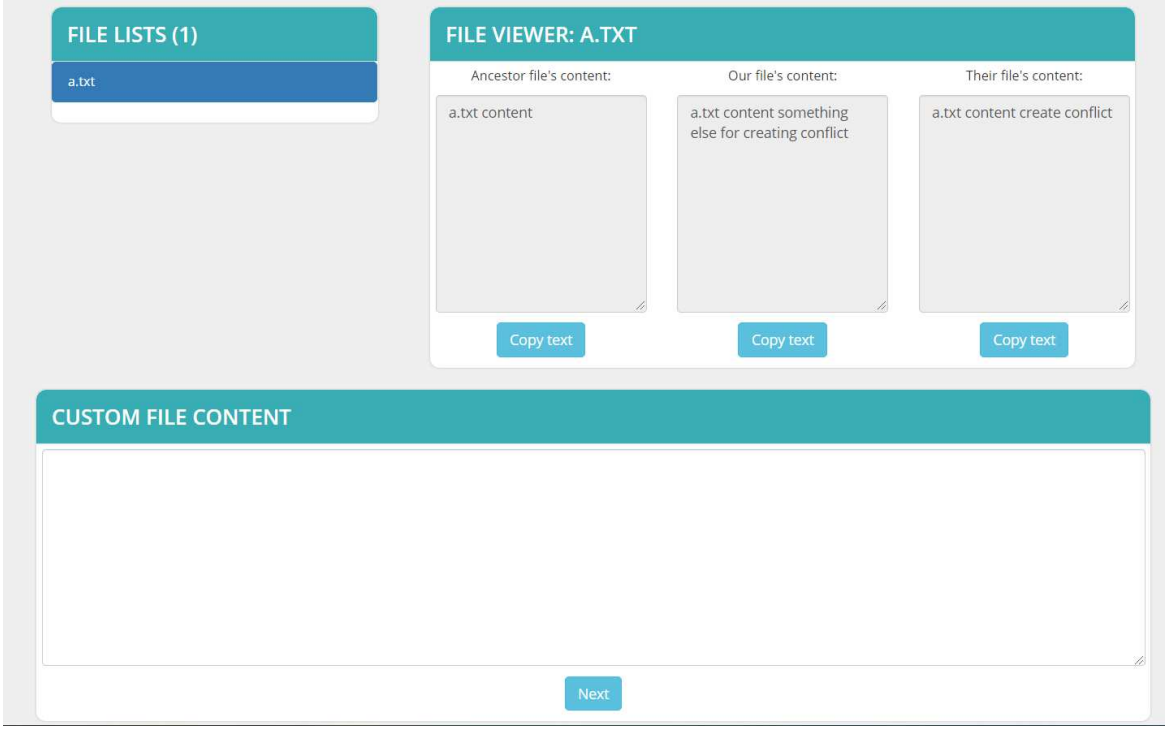
Single Repository – TAB 5: Options



In this tab user can manage his repository:

1. **Checkout –** selecting branch and clicking checkout allow user to check out to other branch (RTB or normal one), when no other branch (if others is RB) the checkout button is disabled
2. **Commit –** allow user to save changes in files in the current repository, by clicking the “Commit” button a modal window will show up and user need to insert comment for the commit and save.
3. **Merge –** like ex2, user can merge between RTB or normal branches to all kind of branches and solve conflicts ONLINE! Amazing feature!
4. **Pull (ONLY FOR LR) –** allow user to pull all changes for head branch.
5. **Reset branch –** By selecting SHA-1 from the selection and clicking RESET button the head branch will change his pointed commit.
6. **Create new branch –** allow to create new branch and selecting SHA-1 or branch for him.
7. **Pull Request (NEW, Only for LR) –** allow to user to create new pull request for each branch in the current repository and for the target branch in the RR.
8. **Push branch (Only for LR) –** allow to user to push branch to the RR and make him RTB.

Merge window



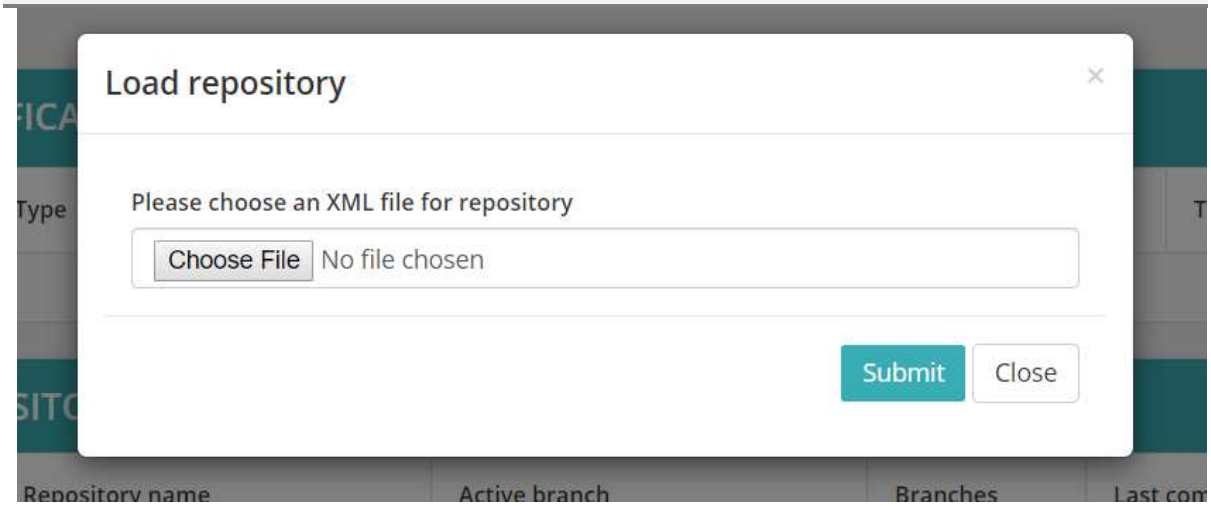
When user using merge command, if any conflicts he will be meet the merge conflict manager window.

For each file in the conflicts list, user will need to decide what to do.

User can choose between take base, active or target file or even choose to write what he wants. When user select file from list all text fields will filled up,

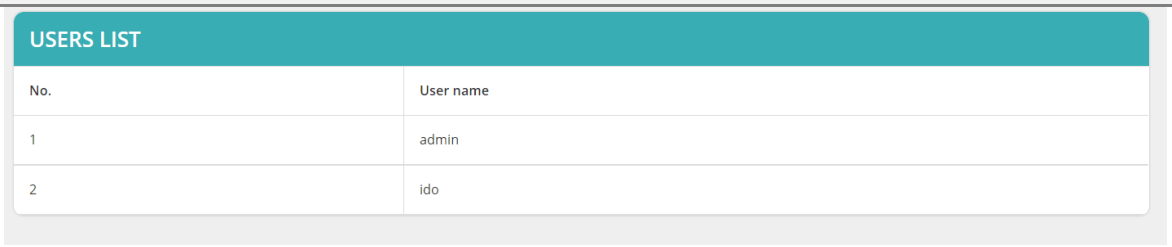
And after solving the conflict the file will be remove from list. After all conflicts are solved the merge command will be execute.

Load new repository



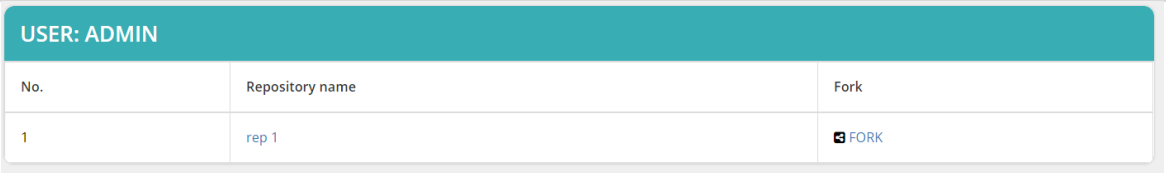
When clicking on the option via menu, A new modal will show up and allow to select an XML file and upload a new repository for the connected user.

Users page



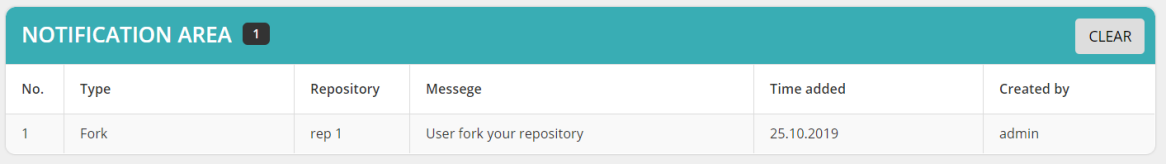
When clicking on the option via menu, the user can watch all registered users.

By clicking on each of them he will see all their repositories and all the details about each of them.



In this page user can see all repositories that belong to the selected user, and if this is not himself he can fork each of them easly within click on the “FORK” link in the right of each repository.

Notification Area



In top of each page user can see the notification area, for each collaboration action an new message will appeared in this area.

Those action will create an notification:

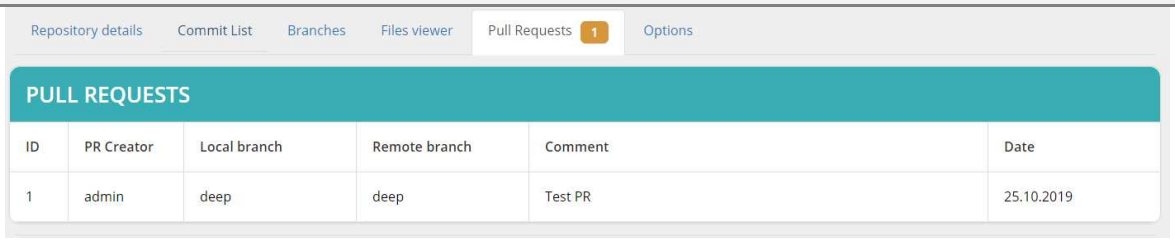
- Forking repository
- Create Pull request (also rejecting and approving)
- Push branch

The notification area will be disapeared in two situations:

1. By clicking ‘CLEAR’ button in top right notifiaction area
2. When user is been logged out from the system.

If user is disconnected from the system all new notification will wait for him when he logged in again.

Pull Request Center

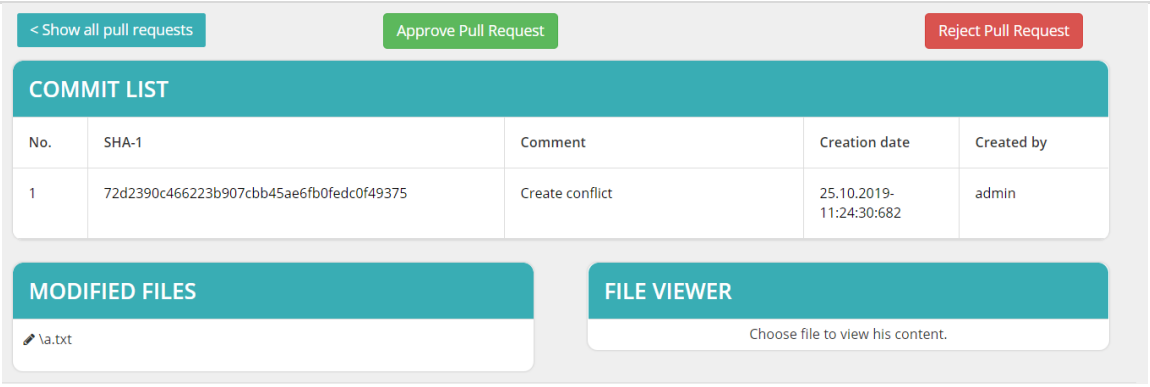


When user have a remote repository that someone has been forked, When the users creating an pull request an new tab will show up in the single-repository page.

Pull Request (number of requests) tab will centers all pull request.

For each request the remote repository owner can see what include in the request,

the message for the request and how leave it to him.



For each request when click on it a new page will show up, with list of all commits for the request. for each commit the user can see all modified files and for each file click and see the file's content.