



WEB Application - Readme file

Submission:

Name: Ido Hayun, ID: 204062574, Email: idoil32@gmail.com

Name: Tim Buchbinder, ID: 313419814, Email: tim89909@gmail.com

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.

Table of content

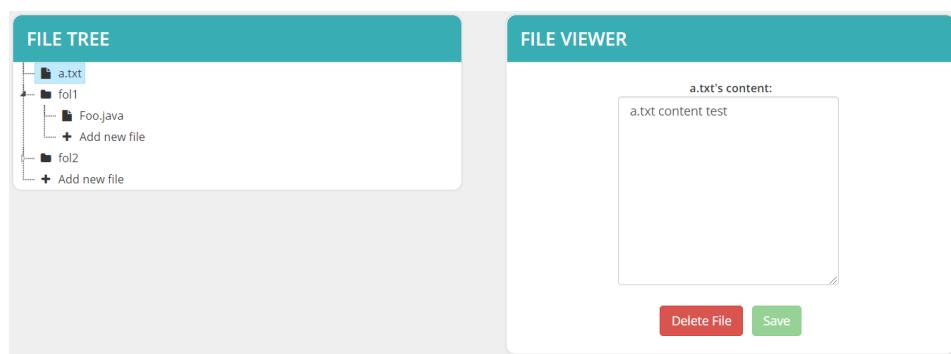
Known issues	1
Bonuses	2
Application explanation:	
Login\Signup	3
Main window: Top bar	5
Main window: Left	7
Main window: Center	8
Main window: Bottom	9
Branch manager	10
Merge	11

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:



Login\Signup pages

The intro page of the website.

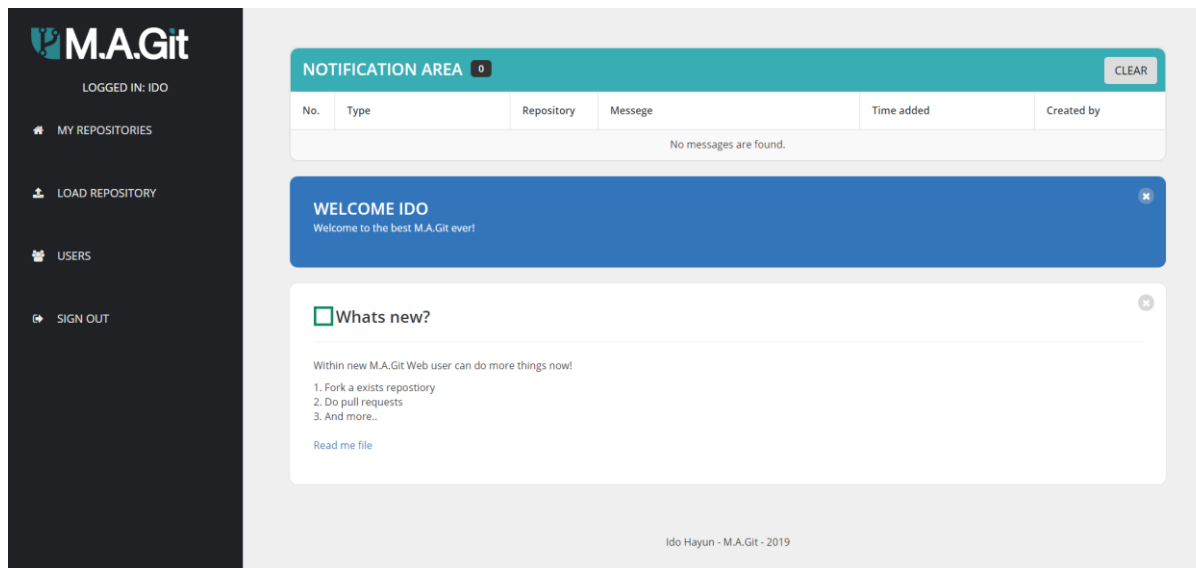
The image displays two side-by-side screenshots of the M.A.Git website's login and signup pages. Both pages feature the M.A.Git logo at the top, which consists of a stylized 'M' with a person icon inside the first 'A', followed by '.A.Git'.

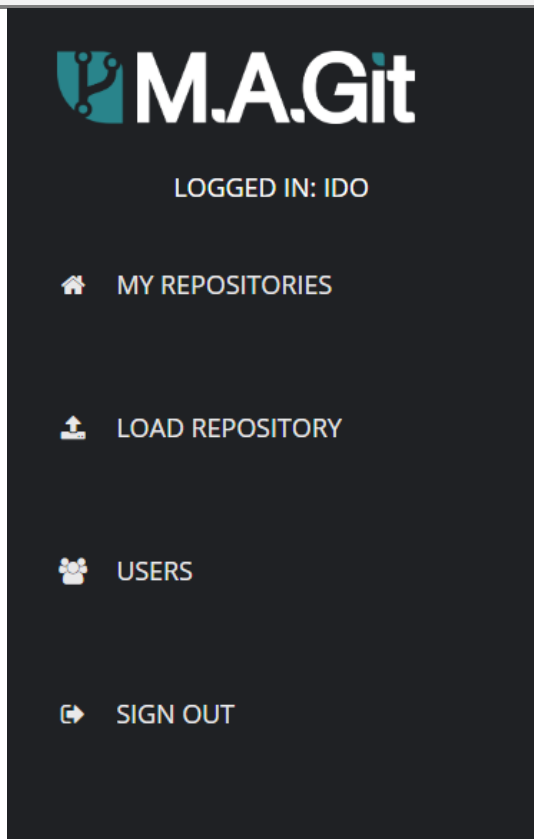
The left screenshot shows the login page. It has a light blue header with the logo. Below the logo, there are two input fields: the first is for the username, containing the text 'ido', and the second is for the password, containing six dots. Below these fields is a teal button labeled 'LOGIN'. At the bottom of the page, there is a link that says 'Not a registered user yet? [Sign up now!](#)'.

The right screenshot shows the signup page. It also has the M.A.Git logo at the top. Below the logo, there is a welcome message: 'Welcome! Please enter username and password to complete your registration.' Below this message are two input fields: the first is for the username, containing the text 'ido', and the second is for the password, containing six dots. Below these fields is a teal button labeled 'SIGN-UP'.

- 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





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.

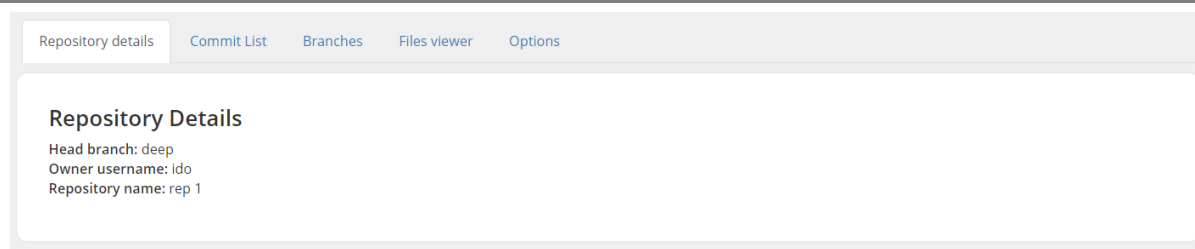
Sign out – Sign out !!!! (from the site)

My Repositories page

REPOSITORIES LISTS					
No.	Repository name	Active branch	Branches	Last commit	Last commit's comment
1	rep 1	deep	3	24.10.2019	do commit
2	My repository #1	ido	2	14.10.2019	add file
3	Test merge repository	ido	3	19.10.2019	edit c.txt

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:

Remote tracking repository

Single Repository – TAB 2: Commit List

COMMITTS					
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.

Repository detailsCommit ListBranchesFiles viewerOptions

FILE TREE

folder2

otherFile.txt

+ Add new file

readme.txt

+ Add new file

FILE VIEWER

otherFile.txt's content:

Other file in folder2

Delete File

Save

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:

New files
Edited files
<div>folder2/otherFile.txt</div>
Deleted files

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

Single Repository – TAB 5: Options

OPTIONS

Checkout to other branch: No branch to select **CHECKOUT**

Save files current contents: **Commit**

Merge to branch: My repository #1\ido **MERGE**

Simple pull data from RR: **Pull**

Select commit sha-1 you want to reset: f3be924857147758462dd53e6bff8f5481b2b338 **RESET**

Create pull request: **Pull Request**

Create new branch

ido **Push Branch**

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

The Merge window interface is divided into three main sections. The top-left section, titled 'FILE LISTS (1)', contains a list with one item, 'a.txt'. The top-right section, titled 'FILE VIEWER: A.TXT', displays three columns of content for comparison: 'Ancestor file's content' (a.txt content), 'Our file's content' (a.txt content something else for creating conflict), and 'Their file's content' (a.txt content create conflict). Each column has a 'Copy text' button below it. The bottom section, titled 'CUSTOM FILE CONTENT', features a large text area for manual conflict resolution and a 'Next' button at the bottom right.

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

The 'Load repository' modal window has a title bar with a close button. The main content area contains the instruction 'Please choose an XML file for repository'. Below this is a file selection interface with a 'Choose File' button and a text field displaying 'No file chosen'. At the bottom right, there are two buttons: 'Submit' and 'Close'. The background shows a blurred view of a repository list table with columns like 'Repository name', 'Active branch', 'Branches', and 'Last com'.

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


USERS LIST

No.	User name
1	admin
2	ido

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.

USER: ADMIN

No.	Repository name	Fork
1	rep 1	 FORK

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 easily within click on the “FORK” link in the right of each repository.

Notification Area

NOTIFICATION AREA

1

CLEAR

No.	Type	Repository	Messege	Time added	Created by
1	Fork	rep 1	User fork your repository	25.10.2019	admin

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

[Repository details](#) [Commit List](#) [Branches](#) [Files viewer](#) **Pull Requests 1** [Options](#)

PULL REQUESTS

ID	PR Creator	Local branch	Remote branch	Comment	Date
1	admin	deep	deep	Test PR	25.10.2019

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.

[< Show all pull requests](#)

[Approve Pull Request](#)

[Reject Pull Request](#)

COMMIT LIST

No.	SHA-1	Comment	Creation date	Created by
1	72d2390c466223b907cbb45ae6fb0fedc0f49375	Create conflict	25.10.2019-11:24:30:682	admin

MODIFIED FILES

 \a.txt

FILE VIEWER

Choose file to view his content.

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.