Software University

Software Requirements Specification for TypiCMS-TeamGamayunSoftUni

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1. Introduction

1.1. Scope

In this document the software requirements for the Gamayun News software platform are assembled, developed and specified. Individual news blog readers are people who already read news blogs for various reasons, e.g. family, hobbies, professional. The purpose is to offer readers the latest news tailored to their interests.

1.2. Purpose

The purpose of this document is to specify the requirements that have to be fulfilled by the NewsBlog aggregation, preservation, management and dissemination system which will be developed in the Gamayun News project. The software will feature News Web Blog content browsing including advanced publishing and opinion sharing.

2. Overall Description

2.1. Product Perspective

Gamayun News is a software platform for publishing and reading news. It provides up to date information on what is happening in the country and worldwide, published and available to the public free of charge. Gamayun news's design flow will make it easy to create new entries.

2.2. Product functions

The Gamayun news system enables the easy creation and editing of news, users, roles, galleries, translations, importing/ editing files.

2.3. User Types

There will be two types of users:

- ***READER***

Able to open and read articles.

- ***ADMINISTRATOR***

Will log in with username and password. The administrator will have full rights and permissions to the site.

2.4. Operating Environment

The software will operate on shared hosting with the possibility to scale up to a dedicated cloud hosting. As it is built with TypiCMS, which is Laravel-based, it has same software requirements as Laravel as seen here: Laravel Server Requirements.

3. External Interface Requirements

3.1. User Interfaces

3.1.1. Reader

- There should be a log at the top of the page.
- *Home* and *Contact* links should be displayed at the top of any page after the logo. The links should be displayed as bulleted list.
- *Facebook* and *Twitter* links should be displayed at the bottom of any page (Home, Aticle, Contact, etc.) before *Contact* and *Terms of use* links. When a link of this type is clicked it should redirect to the Facebook/ Twitter pages of the news agency. Links should be displayed as a bulleted list.
- If there is a logged administrator it should redirect to its Dashboard.
- *Contact* and *Terms of use* links should be displayed at the bottom of any page. The links should be displayed in a row.
- The Contact page should consist of the emails and phone numbers of the Gamayun team and the address of the company.
- Reader should have the option to navigate between articles. For this case ***Previous*** / ***Next*** button should be present.
- See the screenshot in Appendix section for the sake of clearness.

3.1.2. Administrator

- The administrator should be created during the isntalaltion of the platform. A valid email address should be entered.
- The password should be at least 8 symbols long.

- ➢ Administrator should be logged in order to make any changes.
- ➢ Administrator should be logged in with user name and password.
- ➢ “Remember me” and “Forgot password” options should be present in the Login page.
- ➢ If an error occurs during the login, an error should be displayed in blue rectagle above Email / Password fields.

Administrator should have the ability to:

- ➢ Create, edit or delete any article (news / blocks).
- ➢ Create, edit or delete pages and menus in the reader site.
- ➢ Edit and view files used in articles.
- ➢ Edit footers and headers of reader site.
- ➢ Create a new administrator.
- ➢ Change the roles and permissions of users.
- ➢ Translate strings displayed in reader site.
- ➢ Edit user profiles.
- ➢ Administrate reader site view.
- ➢ Files that are supported for upload can be from the following types: jpeg, gif, png, bmp, tiff, pdf, eps, rtf, txt, md, doc, xls, ppt, docx, xlsx, ppsx, pptx, sldx.
- ➢ If any other file type is uplaoded then an error should be displayed.

3.2. Functional requirements

1. The login form should have a "Log in" header.
2. The Login form should have a username field.
3. The user should be able to login only with an existing user.
4. The user input in the username field should be underlined in red if no such user exists in the database.
5. "User does not exist" should be displayed above the Login form header if the user has entered a username that does not exist.
6. The Login form should have a password field.
7. "Wrong password, try again" should be displayed if the entered password does not correspond to the entered username.
8. The user should not be logged in with an incorrect password.
9. The user should be logged in if the password matches the corresponding username.
10. The Login form should have a Remember me checkbox.
11. If the Remember me checkbox is not marked, the user should be asked for credentials every time he accesses the administrator panel.
12. If the Remember me checkbox is not marked, the user should not be asked for credentials.
13. The login form should have a Log in button.
14. The user should not be logged in if he doesn't press the Log In Button, even with correct credentials.

15. The user should be logged in after entering correct credentials and pressing the Log In Button.
16. The Login form should have a “Forgot your password?” button.
17. The "Forgot your password" button should lead to a Reset password page.
18. The Reset password page should have an E-mail field and Reset Password button.
19. If the entered e-mail does not have a "@" character, "Please include '@' in the email-address" should be displayed as a message box.
20. If the user enters a correct e-mail, he should receive an e-mail with information how to reset the password.

3.3. Hardware Interfaces

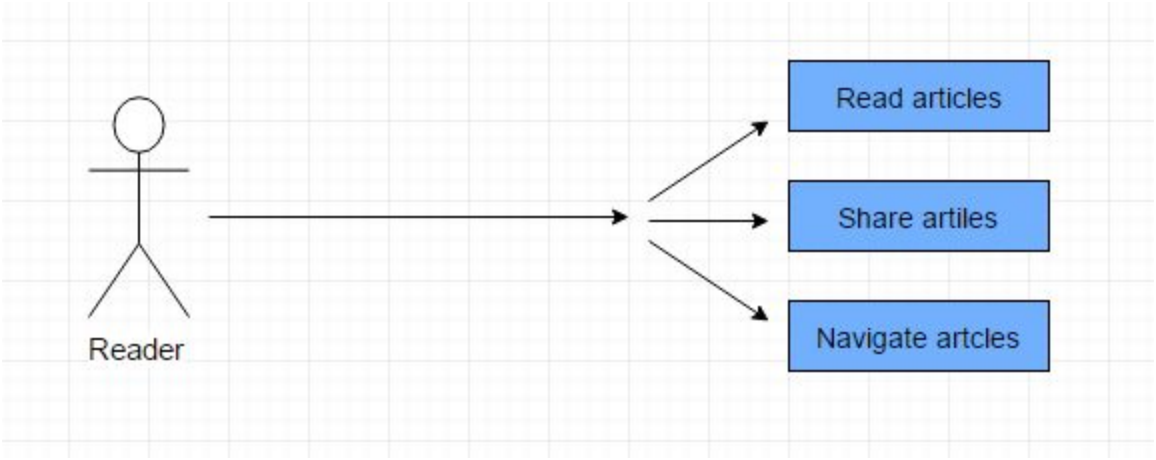
Requires a device that can run a web browser (mobile/desktop/IoT).

3.4. Software and Communication Interfaces

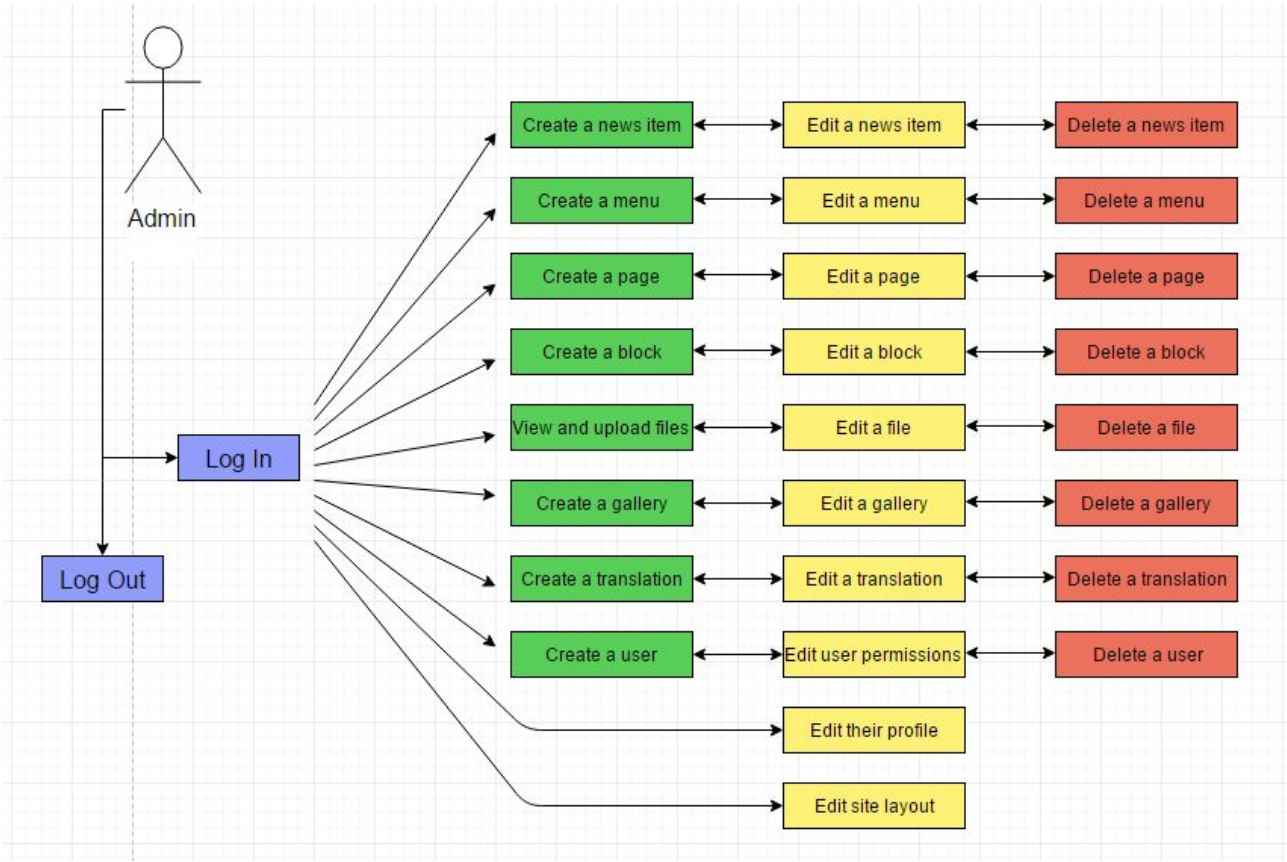
The system is based on TypiCMS, which uses the Laravel PHP framework, so it has the same web server requirements as Laravel as well as a browser that supports the HTTPS protocol.

4. System Features (Use Cases)

4.1. Reader Use Case Flowchart



4.2. Administrator Use Case Flowchart



4.3. Use Cases Related to Admin Login Page

4.3.1. Use Cases related to Creation of admin user

Use Case №1: Creating Admin User
Primary Actor: Administrator
Input: Filling out User First and Last Name; E-mail Address, password and Role - mandatory.
Output: Admin user is created.
Pre-condition: Installed browser and internet connection.
Main Scenario:

1. User initiates browser.
2. User specifies web address for accessing the site.
3. User is presented with the following input fields: email, password, password confirmation, first and last name.
4. User fills out all fields.

5. User presses the Save button.

Alternate scenario:

1. Some of the fields are left empty and the user is prompted to register again.
2. The creation of admin fails and the user is prompted to try again.

4.3.2. Use Cases related to Login/out of admin user

Use Case №2: Login as Administrator

Primary Actor: Administrator
Input: Login in Admin Panel with admin user
Output: Logged in as admin user
Pre-condition: Installed browser, internet connection and administrator access.
Main Scenario:

1. User initiates browser.
2. User specifies the web address for accessing the admin panel.
3. User enter a valid e-mail address in the ,,Email" field.
4. User enter a valid password in the ,,Password" field.
5. User click on the ,,Log in" button.
6. User is logged in the Admin panel.

Alternate scenario:

1. Login to admin panel fails, as incorrect e-mail address is entered. Warning message ,, User does not exist" appears and admin is prompted to try again.
2. Login to admin panel fails, as incorrect password is entered. Warning message ,, Wrong password, try again" appears and admin is prompted to try again.
3. Login to admin panel fails, as ,,Log in" button is inactive and admin is prompt to contact software vendor.

Use Case №3 : Logout as Administrator
Primary Actor: Administrator
Input: Logout from Admin Panel with admin user
Output: Logout from admin user
Pre-condition: Installed browser, internet connection and administrator access.
Main Scenario:

1. User initiates browser.
2. User specifies the web address for accessing the admin panel.
3. User logs in as an administrator.
4. User is redirected to Admin Panel.

5. User selects Admin user name from Navigation Bar.
6. Drop down menu appears with following items: e-mail address of admin user, Profile and Log out.
7. User selects „ Log out” from drop down menu.
8. User is redirected to login page.

Alternate scenario:

1. Log out fails and user is prompted to try again.
2. Log out fails and user is redirected to reader view.

4.3.3. Use Cases related to “Remember me” and Forgotten Passowrod

.**Use Case №4:** „Remember me” check box

Primary Actor: Administrator
Input: „Remember me” checks box is selected when logging in with admin user
Output: Admin user email and password are saved.
Pre-condition: Installed browser, internet connection and administrator access.
Main Scenario:

1. User initiates browser.
2. User specifies the web address for accessing the admin panel.
3. User enters a valid e-mail address in the „Email” field.
4. User enters a valid password in the „Password” field.
5. User checks the „Remember me” checkbox – optional.
6. User click on the „Log in” button.
7. User is logged in the Admin panel.
8. User selects Admin user name from Navigation Bar.
9. Drop down menu appears with following items: e-mail address of admin user, Profile and Log out.
10. User selects „Log out” from drop down menu.
11. User is redirected to login page.
12. Admin e-mail and password presents and admin only selects the Log in button.

Alternate scenario:

1. Login to admin panel fails, as „Remember me” check box appears unselected and admin is prompted to try again.
2. Login to admin panel fails, as incorrect email and/or password are remembered.

Use Case №5: Forgotten password

Primary Actor: Administrator
Input: Forgotten password when login with admin user
Output: Redirect to Reset passowrd page.

Pre-condition: Installed browser, internet connection and administrator access.
Main Scenario:

1. User initiates browser.
2. User specifies the web address for accessing the admin panel.
3. User enter a valid e-mail address in the „Email" field.
4. User enter a invalid or none password in the „Password" field.
5. User click on „Forgot your password" bellow Log in button
6. User is redirected to reset password page.

Alternate scenario:

1. Forgot your password does not redirect to Reset Password page and admin is prompted to try again.

Use Case №6: Reset password page

Primary Actor: Administrator
Input: Reset password when login with admin user
Output: Reset of existing password.
Pre-condition: Installed browser, internet connection and administrator access.
Main Scenario:

1. User initiates browser.
2. User specifies the web address for accessing the admin panel.
3. Log in page displays.
4. User click on „Forgot your password" bellow Log in button
5. User is redirected to reset password page.
6. User enters valid e-mail address.
7. User selects Reset password button.

Alternate scenario:

1. Reset password button is inactive and admin is prompted to contact software vendor.
2. System does not send e-mail to user to reset admin password.

4.4. Use Cases Related to Admin Panel

4.4.1. Use Cases Related to Dashboard

Use Case №7: Dashboard Page

Primary Actor: Administrator
Input: User presses the Dashboard button

Output: Redirect to Dashboard
Pre-condition: Installed browser, internet connection and administrator access.

Main Scenario:

1. User initiates browser.
2. User specifies the web address for accessing the admin panel.
3. User logs in as an administrator.
4. User presses the Dashboard from the left panel.
5. User is redirected to the Dashboard page.
6. User is presented with „Welcome" message, latest changes log and Clear history button.
7. User is able to sort changes made in back end by Date and Time and also to clear changes history.

Alternate scenario:

1. Redirect to dashboard fails and admin is prompted to try again

4.4.2. Use Cases Related to Pages

Use Case №8: Creating Pages

Primary Actor: Administrator
Input: Filling out Page title - required field.
Output: New page is created.
Pre-condition: Installed browser, internet connection and administrator access.
Main Scenario:

1. User initiates browser.
2. User specifies web address for accessing the site.
3. User logs as an administrator.
4. User presses the New Pages button from the left panel.
5. User is redirected to the New Pages page.
6. User is presented with the following input fields: title, url, body.
7. User fills out some fields or none.
8. User presses the Save and Exit button.

Alternate scenario:

1. Page title field is left empty and the user is prompted to input text in it.
2. The creation of a page fails and the administrator is prompted to try again.

Use Case №9: Editing Pages

Primary Actor: Administrator
Input: Editing the fields in the Page Configuration.

Output: The content of a page is changed.
Pre-condition: Installed browser, internet connection and administrator access.
Main Scenario:

1. User initiates browser.
2. User specifies the web address for accessing the site.
3. User logs as an administrator.
4. User presses the Pages button from the left panel.
5. User is presented with a list of pages.
6. User presses the corresponding Edit button.
7. User changes the content of some fields or none.
8. User presses the Save and Exit button.

Alternate scenario:

1. Page title field is left empty and the user is prompted to input text in it.
2. Saving the changes fails and the user is prompted to try again.

Use Case №10: Deleting Pages

Primary Actor: Administrator
Input: Deleting the content of a page
Output: A page is deleted
Pre-condition: Installed browser, internet connection and administrator access.
Main Scenario:

1. User initiates browser.
2. User specifies web address for accessing the site.
3. User logs as an administrator.
4. User presses the Pages button from the left panel.
5. User is presented with a list of pages.
6. User presses the corresponding Delete button.
7. User changes the content of some fields or none.
8. User is presented with confirmation dialog with warning message „Are you sure you want to delete this item <<name of the item>>?".
9. User presses the OK button of the confirmation dialog.

Alternate scenario:

1. The deletion of post fails and the user is prompted to try again.
2. The deletion of post fails and the news post is not deleted.

4.4.3 Use Cases Related to News

Use Case №11: Creating News

Primary Actor: Administrator
Input: Filling out Title field - mandatory.
Output: New news entry in the site.
Pre-condition: Installed browser, internet connection and administrator access.
Main Scenario:

1. User initiates browser.
2. User specifies the web address for accessing the site.
3. User logs in as an administrator.
4. User presses the New News button from the left panel.
5. User is redirected to the New News page.
6. User is presented with the following input fields: image, date, title, state, summary, body and slug.
7. User fills out some fields or none.
8. User presses the Save and Exit button.

Alternate scenario:

1. The Title field is left empty and the user is prompted to input text in it.
2. The creation of news fails and the user is prompted to try again.

Use Case №12: Editing News

Primary Actor: Administrator
Input: Edit some of the fields or none.
Output: Change in news content in post site.
Pre-condition: Installed browser, internet connection, administrator access and news posted.
Main Scenario:

1. User initiates browser.
2. User specifies the web address for accessing the site.
3. User logs in as an administrator.
4. User presses the News button from the left panel.
5. User is redirected to the News page.
6. User is presented with a list of published news entries.
7. User presses the corresponding Edit button.
8. User is presented with the following input fields: image, date, title, state, summary, body and slug.
9. User edits the content of some fields.

10. User presses the Save and Exit button.

Alternate scenario:

1. The edit of news fails and the user is prompted to try again.
2. The edit of news fails and the news post is unchanged.

Use Case №13: News status change

Primary Actor: Administrator
Input: User presses the corresponding Status button.
Output: Change in the status of a news entry in the site.
Pre-condition: Installed browser, internet connection, administrator access and news posted.
Main Scenario:

1. User initiates browser.
2. User specifies the web address for accessing the site.
3. User logs in as an administrator.
4. User presses the News button from the left panel.
5. User is redirected to the News page.
6. User is presented with a list of published news.
7. User presses the corresponding slider button under "Status".
8. Notification that the article's status has changed appears in the bottom right corner.

Alternate scenario:

1. The news status change fails and the user is prompted to try again.
2. The news status change fails and the news status is unchanged.

Use Case №14: Deleting News

Primary Actor: Administrator
Input: User presses the corresponding Delete button.
Output: A news entry is deleted.
Pre-condition: Installed browser, internet connection, administrator access and existing news entries
Main Scenario:

1. User initiates browser.
2. User specifies the web address for accessing the site.
3. User logs in as an administrator.
4. User presses the News button from the left panel.
5. User is redirected to the News page.
6. User is presented with a list of published news.

7. User press delete button (x) corresponding to the chosen post.
8. User is presented with confirmation dialog with warning message „,,Are you sure you want to delete this item <<name of the item>>?".
9. User presses the OK button of the confirmation dialog.

Alternate scenario:

1. The deletion of post fails and the user is prompted to try again.
2. The deletion of post fails and the news post is not deleted.

4.4.4 Use Cases Related to Blocks

Use Case №15: Creating Blocks

Primary Actor: Administrator
Input: Filling out Title field - mandatory.
Output: New block entry in the site.
Pre-condition: Installed browser, internet connection and administrator access.
Main Scenario:

1. User initiates browser.
2. User specifies web address for accessing the site.
3. User logs as an administrator.
4. User presses the New Blocks button from the left panel.
5. User is redirected to the New Blocks page.
6. User is presented with the following input fields: name, state and body.
7. User fills out some fields or none.
8. User presses the Save and Exit button.

Alternate scenario:

1. The Title field is left empty and the user is prompted to input text in it.
2. The creation of block fails and the user is prompted to try again.

Use Case №16: Editing Blocks

Primary Actor: Administrator
Input: Edit some of the fields or none.
Output: Change in Blocks content in post site.
Pre-condition: Installed browser, internet connection, administrator access and news posted.
Main Scenario:

1. User initiates browser.
2. User specifies web address for accessing the site.

3. User logs as an administrator.
4. User presses the blocks button from the left panel.
5. User is redirected to the Blocks page.
6. User is presented with a list of published blocks.
7. User press edit button to chosen block.
8. User is presented with the following input fields: name, state and body.
9. User edit content of some fields.
10. User presses the Save and Exit button.

Alternate scenario:

1. The edit of block fails and the user is prompted to try again.
2. The edit of block fails and the block post is unchanged.

Use Case №17: Blocks status change

Primary Actor: Administrator
Input: User press the corresponding Edit button.
Output: Change in the status of a block..
Pre-condition: Installed browser, internet connection, administrator access and existing blocks.
Main Scenario:

1. User initiates browser.
2. User specifies web address for accessing the site.
3. User logs as an administrator.
4. User presses the Blocks button from the left panel.
5. User is redirected to the Blocks page.
6. User is presented with a list of published blocks.
7. User presses the corresponding Status button.
8. Notification that status is changed appears in right bottom corner

Alternate scenario:

1. The status block change fails and the user is prompted to try again.
2. The status block change fails and the news status is unchanged.

Use Case №18: Deleting Blocks

Primary Actor: Administrator
Input: User presses the corresponding Delete button.
Output: A block is deleted.

Pre-condition: Installed browser, internet connection, administrator access and existing blocks.
Main Scenario:

1. User initiates browser.
2. User specifies web address for accessing the site.
3. User logs as an administrator.
4. User presses the Blocks button from the left panel.
5. User is redirected to the Blocks page.
6. User is presented with a list of published blocks.
7. User press delete(x) button to chosen block.
8. User is presented with confirmation dialog with warning message,,Are you sure you want to delete this item <<name of the item>>?".
9. User presses the OK button of the confirmation dialog.

Alternate scenario:

1. The deletion of block fails and the user is prompted to try again.
2. The deletion of block fails and the news post is not deleted.

4.4.5. Use Cases Related to Menus

Use Case №19: Creating Menus

Primary Actor: Administrator
Input: Filling out Title field - mandatory.
Output: New menu item.
Pre-condition: Installed browser, internet connection and administrator access.
Main Scenario:

1. User initiates browser.
2. User specifies the web address for accessing the site.
3. User logs in as an administrator.
4. User presses the New Menus button from the left panel.
5. User is redirected to the New Menu page.
6. User is presented with the following input fields: title, class.
7. User fills out some fields or none.
8. User presses the Save and Exit button.

Alternate scenario:

1. The title field is left empty.
2. The creation of a menu fails and the user is prompted to try again.

Use Case №20: Editing Menus

Primary Actor: Administrator
Input: Selecting a page in which to edit a menu item; Editing any or none of the fields.
Output: A menu item is changed
Pre-condition: Installed browser, internet connection and administrator access.
Main Scenario:

1. User initiates browser.
2. User specifies the web address for accessing the site.
3. User logs in as an administrator.
4. User presses the Menus button from the left panel.
5. User is redirected to the Menus page.
6. User is presented with a list of existing menus.
7. User selects the corresponding Edit button.
8. User selects the page in which to edit a menu item.
9. User is presented with the following fields: title, url, page, targer, class, icon class
10. User edits some of the fields or none.
11. User presses the Save and Exit button.

Alternate scenario:

1. The edit of menu fails and the user is prompted to try again.
2. The edit of menu fails and the menu is unchanged.

Use Case №21: Menus status change
Primary Actor: Administrator
Input: User presses the corresponding Status button.
Output: Change in the status of a menus entry in the site.
Pre-condition: Installed browser, internet connection and administrator access.
Main Scenario:

1. User initiates browser.
2. User specifies the web address for accessing the site.
3. User logs in as an administrator.
4. User presses the Menus button from the left panel.
5. User is redirected to the Menus page.
6. User is presented with a list of existing menus.
7. User presses the corresponding slider button under "Status".
8. Notification that the menu`s status has changed appears in the bottom right corner.

Alternate scenario:

1. The menu status change fails and the user is prompted to try again.

2. The menu status news change fails and the menu status is unchanged.

Use Case №22: Deleting Menus

Primary Actor: Administrator
Input: User presses the corresponding Delete button.
Output: A menu item is deleted.
Pre-condition: Installed browser, internet connection and administrator access.
Main Scenario:

1. User initiates browser.
2. User specifies the web address for accessing the site.
3. User logs in as an administrator.
4. User presses the Menus button from the left panel.
5. User is redirected to the Menu page.
6. User is presented with a list of existing menus..
7. User press the corresponding delete (x) button.
8. User is presented with confirmation dialog with warning message „Are you sure you want to delete this item <<name of the item>>?".
9. User presses the Save and Exit button.

Alternate scenario:

1. The delete of menu fails and the user is prompted to try again.
2. The delete of menu fails and the menu is unchanged.

4.4.6. Use Cases Related to Translations

Use Case №23: Creating Translations

Primary Actor: Administrator
Input: Filling out Translation text - mandatory.
Output: Translated text per selected language
Pre-condition: Installed browser, internet connection and administrator access.
Main Scenario:

1. User initiates browser.
2. User specifies web address for accessing the site.
3. User logs as an administrator.
4. User presses the Translations button from the left panel.
5. User is redirected to the Translations page.
6. User is presented with the following input fields: key and translations, where user can select English(EN), French(FR) or Dutch(NL) languages.

7. User fills out some fields or none.
8. User presses the Save and Exit button.

Alternate scenario:

1. Key or Translations boxes are empty and the user is prompted to input text in it.
2. Text translation fails and the administrator is prompted to try again.

Use Case №24: Editing Translations

Primary Actor: Administrator
Input: Edit some of the fields or none.
Output: Change text or translation language.
Pre-condition: Installed browser, internet connection and administrator access.
Main Scenario:

1. User initiates browser.
2. User specifies web address for accessing the site.
3. User logs as an administrator.
4. User presses the Translations button from the left panel.
5. User is redirected to the Translations page.
6. User is presented with a list of translations.
7. User press edit button to selected translation.
8. User is presented with the following input fields: key and translations, where user can select English(EN), French(FR) or Dutch(NL) languages.
9. User edit content of some fields or none.
10. User presses the Save and Exit button.

Alternate scenario:

1. The edit of translation fails and the admin is prompted to try again.
2. The edit of translation fails and the text is unchanged.

Use Case №25: Delete Translations

Primary Actor: Administrator
Input: Delete existing translation.
Output: Delete translation text.
Pre-condition: Installed browser, internet connection and administrator access.
Main Scenario:

1. User initiates browser.
2. User specifies web address for accessing the site.
3. User logs as an administrator.

4. User presses the Translations button from the left panel.
5. User is redirected to the Translations page.
6. User is presented with a list of translations.
7. User press delete(x) button to selected translation.
8. User is presented with confirmation dialog with warning message „Are you sure you want to delete this item <<name of the item>>?".
9. User presses the OK button of the confirmation dialog.

Alternate scenario:

1. The delete of translation fails and the admin is prompted to try again.
2. The delete of translation fails and the translation is unchanged.

4.4.7. Use Cases Related to Files

Use Case №26: Uploading Files

Primary Actor: Administrator
Input: Uploading Files- mandatory.
Output: File is uploaded in the site.
Pre-condition: Installed browser, internet connection and administrator access.
Main Scenario:

1. User initiates browser.
2. User specifies the web address for accessing the site.
3. User logs in as an administrator.
4. User presses the Files button from the left panel.
5. User is redirected to the Files page.
6. User is presented with the following input fields: field to upload file, date, type, image, filename, alt attribute, width and height.
7. User selects an image to upload.

Alternate scenario:

1. The upload of file fails and the user is prompted to try again.

Use Case №27: Editing Files

Primary Actor: Administrator
Input: Editing some of the files or none.
Output: Changes in image title/description.
Pre-condition: Installed browser, internet connection, administrator access and news posted.
Main Scenario:

1. User initiates browser.

2. User specifies the web address for accessing the site.
3. User logs in as an administrator.
4. User presses the Files button from the left panel.
5. User is redirected to the Files page.
6. User is presented with a list of uploaded Files.
7. User press edit button to chosen file.
8. User is presented with the following input fields: alt attribute, description, chosen file button and file information.
9. User edits the content of some fields.
10. User presses the Save and Exit button.

Alternate scenario:

1. The edit of file fails and the user is prompted to try again.
2. The edit of file fails and the image information is unchanged.

Use Case №28: Deleting Files

Primary Actor: Administrator
Input: Deleting some of the files or none.
Output: Deleting in file title/description.
Pre-condition: Installed browser, internet connection, administrator access and news posted.
Main Scenario:

1. User initiates browser.
2. User specifies the web address for accessing the site.
3. User logs in as an administrator.
4. User presses the Files button from the left panel.
5. User is redirected to the Files page.
6. User is presented with a list of uploaded Files.
7. User press delete button (x) corresponding to the chosen Files.
8. User is presented with confirmation dialog with warning message „Are you sure you want to delete this item <<name of the item>>?".
9. User presses the OK button of the confirmation dialog.

Alternate scenario:

1. The deletion of files fails and the user is prompted to try again.
2. The deletion of file fails and the file is not deleted.

4.4.8. Use Cases Related to Galleries

Use Case №29: Uploading Image

Primary Actor: Administrator
Input: Uploading Images - mandatory.
Output: Image is uploaded in the site.
Pre-condition: Installed browser, internet connection and administrator access.
Main Scenario:

1. User initiates browser.
2. User specifies the web address for accessing the site.
3. User logs in as an administrator.
4. User presses the Galleries button from the left panel.
5. User is redirected to the Galleries page.
6. User is presented with the following input fields: field to choose file button, name, title, slug, status, summary and body.
7. User fills out some fields or none.
8. User presses the Save and Exit button.

Alternate scenario:

1. The upload of image fails and the user is prompted to try again.

Use Case №30: Editing Images

Primary Actor: Administrator
Input: Edit some of the images or none.
Output: Changes in image title/description.
Pre-condition: Installed browser, internet connection, administrator access and news posted.
Main Scenario:

1. User initiates browser.
2. User specifies the web address for accessing the site.
3. User logs in as an administrator.
4. User presses the Galleries button from the left panel.
5. User is redirected to the Galleries page.
6. User is presented with a list of uploaded images.
7. User press edit button to chosen image.
8. User is presented with the following input fields: field to choose file button, name, title, slug, status, summary and body.
9. User edits the content of some fields.
10. User presses the Save and Exit button.

Alternate scenario:

1. The edit of image fails and the user is prompted to try again.
2. The edit of image fails and the image information is unchanged.

Use Case №31: Deleting Image

Primary Actor: Administrator
Input: Deleting some of the images or none.
Output: Deleting in image title/description.
Pre-condition: Installed browser, internet connection, administrator access and news posted.
Main Scenario:

1. User initiates browser.
2. User specifies the web address for accessing the site.
3. User logs in as an administrator.
4. User presses the Galleries button from the left panel.
5. User is redirected to the Galleries page.
6. User is presented with a list of uploaded images.
7. User press delete button (x) corresponding to the chosen image.
8. User is presented with confirmation dialog with warning message „Are you sure you want to delete this item <<name of the item>>?".
9. User presses the OK button of the confirmation dialog.

Alternate scenario:

1. The deletion of image fails and the user is prompted to try again.
2. The deletion of image fails and the image is not deleted.

4.4.9. Use Cases Related to Users

Use Case №32: Creating Users

Primary Actor: Administrator
Input: Filling out User First and Last Name and E-mail Address - mandatory.
Output: New user is created.
Pre-condition: Installed browser, internet connection and administrator access.
Main Scenario:

1. User initiates browser.
2. User specifies web address for accessing the site.
3. User logs as an administrator.
4. User presses the New Users button from the left panel.
5. User is redirected to the New Users page.
6. User is presented with the following input fields: email, password, password confirmation, first name, last name, user type, roles, User Permisions, check boxes allowing specific admin functions.
7. User fills out some fields or none.

8. User presses the Save and Exit button.

Alternate scenario:

1. User First and Last Name fields are left empty and the user is prompted to input text in it.
2. The creation of user fails and the administrator is prompted to try again.

Use Case №33: Editing Users

Primary Actor: Administrator
Input: Edit some of the fields or none.
Output: The permissions or details of a user are changed.
Pre-condition: Installed browser, internet connection and administrator access.
Main Scenario:

1. User initiates browser.
2. User specifies web address for accessing the site.
3. User logs as an administrator.
4. User presses the Users button from the left panel.
5. User is redirected to the Users page.
6. User is presented with a list of users.
7. User presses the corresponding edit button.
8. User is presented with the following input fields: email, password, password confirmation, first name, last name, user type, roles, User Permisions, check boxes allowing specific admin functions.
9. User edit content of some fields.
10. User presses the Save and Exit button.

Alternate scenario:

1. The edit of user profile fails and the admin is prompted to try again.
2. The edit of user profile fails and the user profile is unchanged.

Use Case №34: Deleting Users

Primary Actor: Administrator
Input: Delete existing user.
Output: Delete user account.
Pre-condition: Installed browser, internet connection and administrator access.
Main Scenario:

User initiates browser.

1. User specifies web address for accessing the site.

2. User logs as an administrator.
3. User presses the Users button from the left panel.
4. User is redirected to the Users page.
5. User is presented with a list of users.
6. User presses the corresponding delete button.
7. User is presented with confirmation dialog with warning message „Are you sure you want to delete this item <<name of the item>>?".
8. User presses the OK button of the confirmation dialog.

Alternate scenario:

1. The delete of user account fails and the admin is prompted to try again.
2. The delete of user account fails and the user profile is unchanged.

4.4.10. Use Cases Related to Roles

Use Case №35: Creating Roles

Primary Actor: Administrator
Input: Filling out Name - mandatory.
Output: A new role is create.
Pre-condition: Installed browser, internet connection and administrator access.
Main Scenario:

1. User initiates browser.
2. User specifies web address for accessing the site.
3. User logs as an administrator.
4. User presses the Roles button from the left panel.
5. User is redirected to the Roles page.
6. User is presented with the following input fields:
   name, role permissions and table with check boxes of actions per each admin panel function.
7. User fills out some fields and check boxes or none.
8. User presses the Save and Exit button.

Alternate scenario:

1. Name left empty and the user is prompted to input text in it.
2. The creation of new role fails and the administrator is prompted to try again.

Use Case №36: Editing Roles

Primary Actor: Administrator

Input: Edit some of the fields or none.
Output: Change role information or specific functions.
Pre-condition: Installed browser, internet connection and administrator access.
Main Scenario:

1. User initiates browser.
2. User specifies web address for accessing the site.
3. User logs as an administrator.
4. User presses the Roles button from the left panel.
5. User is redirected to the Roles page.
6. User is presented with a list of roles.
7. User presses the corresponding Edit button.
8. User is presented with the following input fields: name, role permissions and table with check boxes of actions per each admin panel function.
9. User edits the contents of fields or some check boxes.
10. User presses the Save and Exit button.

Alternate scenario:

1. The edit of role profile fails and the admin is prompted to try again.
2. The edit of role profile fails and the role profile is unchanged.

Use Case №37: Delete Roles

Primary Actor: Administrator
Input: Delete existing role.
Output: A role is deleted.
Pre-condition: Installed browser, internet connection and administrator access.

Main Scenario:

1. User initiates browser.
2. User specifies web address for accessing the site.
3. User logs as an administrator.
4. User presses the Roles button from the left panel.
5. User is redirected to the Roles page.
6. User is presented with a list of roles.
7. User presses the corresponding delete button.
8. User is presented with confirmation dialog with warning message „Are you sure you want to delete this item <<name of the item>>?".
9. User presses the OK button of the confirmation dialog.

Alternate scenario:

1. The delete of role profile fails and the admin is prompted to try again.
2. The delete of role profile fails and the role is unchanged.

4.4.11. Use Cases Related to Navigation Bar

Use Case №38: Redirect from Admin panel to View /Reader page.

Primary Actor: Administrator
Input: Reset password when login with admin user
Output: Reset of existing password.
Pre-condition: Installed browser, internet connection and administrator access.
Main Scenario:

1. User initiates browser.
2. User specifies web address for accessing the site.
3. User logs as an administrator.
4. User presses View website.
5. User is redirected to the View /Reader page.

Alternate scenario:

1. View website redirect does not work and the user is prompted to try again.
2. View website redirect does not work and the administrator remains at Admin panel.

Use Case № 39: Access Admin Profile from Navigation Bar

Primary Actor: Administrator
Input: Navigate to Admin/User Profile
Output: Access Admin/User Profile
Pre-condition: Installed browser, internet connection and administrator access.
Main Scenario:

1. User initiates browser.
2. User specifies web address for accessing the site.
3. User logs as an administrator/user.
4. User presses displayed First and Last name on Navigation Bar.
5. Drop down menu with following items appears: email address, Profile and Log Out.
6. User click on Profile.
7. User is redirected to the Admin/User Profile page.

Alternate scenario:

1. Redirect when Profile is selected does not work and the user is prompted to try again.

2. Profile button from Drop Down menu is inactive and the administrator is primped to contact software vendor.

Use Case № 40: Logout from Navigation Bar

Primary Actor: Administrator
Input: Navigate to Logout
Output: Logout from Admin User
Pre-condition: Installed browser, internet connection and administrator access.
Main Scenario:

1. User initiates browser.
2. User specifies web address for accessing the site.
3. User logs as an administrator/user.
4. User presses displayed First and Last name on Navigation Bar.
5. Drop down menu with following items appears: email address, Profile and Log Out.
6. User click on Log Out.
7. User is redirected to Log In Page.

Alternate scenario:

1. Redirect when Log Out is selected does not work and the user is prompted to try again.
2. Log Out button from Drop Down menu is inactive and the administrator is primped to contact software vendor.

Use Case № 41: Access Settings from Navigation Bar

Primary Actor: Administrator
Input: Navigate to Settings
Output: Logout from Admin User
Pre-condition: Installed browser, internet connection and administrator access.
Main Scenario:

1. User initiates browser.
2. User specifies web address for accessing the site.
3. User logs as an administrator/user.
4. User presses Settings on Navigation Bar.
5. User is redirected to Reade/View Page Settings.

Alternate scenario:

1. Redirect to Reade/View Page Settings does not work and the user is prompted to try again.
2. Settings button is inactive and the administrator is primped to contact software vendor.

4.5. Use Cases Related to Reader/View page

4.5.1. Use cases related to Home Page

Use Case №42: Navigate to Home Page from Main Menu

Primary Actor: User
Input: Opening Home Page
Output: Home Page content is displayed
Pre-condition: Installed browser and internet connection.
Main Scenario:

1. User initiates browser.
2. User specifies web address for accessing the site.
3. User pres Home from Main Menu.
4. Home Page displays.

Alternate scenario:

1. Home page does not load and user is prompt to try again.
2. Home page does not load and relevant error message appears.

Use Case № 43: Navigate to Home Page from Website Logo

Primary Actor: User
Input: Opening Home Page
Output: Home Page content is displayed
Pre-condition: Installed browser and internet connection.
Main Scenario:

1. User initiates browser.
2. User specifies web address for accessing the site.
3. User pres Website Logo form left top corner.
4. Home Page displays.

Alternate scenario:

1. Home page does not load and user is prompt to try again.
2. Home page does not load and relevant error message appears.

Use Case № 44: Navigate to Home Page from Website Title

Primary Actor: User
Input: Opening Home Page
Output: Home Page content is displayed
Pre-condition: Installed browser and internet connection.
Main Scenario:

1. User initiates browser.
2. User specifies web address for accessing the site.
3. User pres Website Title form top center of page..
4. Home Page displays.

Alternate scenario:

1. Home page does not load and user is prompt to try again.
2. Home page does not load and relevant error message appears.

Use Case № 45: Navigate to Home Page through Navigation Bar

Primary Actor: User
Input: Opening Home Page
Output: Home Page content is displayed
Pre-condition: Installed browserand internet connection.
Main Scenario:

1. User initiates browser.
2. User specifies web address for accessing the site.
3. List with posted news displays.
4. User scrolls through the list of posted news titles.
5. User click on chosen post title.
6. User is redirect to news content.
7. User pres Home button from Navigation Bar
8. Home page content opens.

Alternate scenario:

1. Home page does not load and user is prompt to try again.
2. Home page does not load and relevant error message appears.

4.5.2 Use cases related to Social Menu.

Use Case № 46: Navigate to Facebook link

Primary Actor: User
Input: Opening Facebook link
Output: Facebook link is displayed
Pre-condition: Installed browser and internet connection.
Main Scenario:

1. User initiates browser.
2. User specifies web address for accessing the site.
3. User scroll to page bottom.
4. User pres Facebook link from Footer at left bottom corner.
4. Facebook link redirects to offical Gamayun News Facebook page.

Alternate scenario:

1. Facebook link does not load and user is prompt to try again.
2. Facebook link does not load and relevant error message appears.

Use Case № 47: Navigate to Twitter link

Primary Actor: User
Input: Opening Twitter link
Output: Twitter link is displayed
Pre-condition: Installed browser and internet connection.
Main Scenario:

1. User initiates browser.
2. User specifies web address for accessing the site.
3. User scroll to page bottom.
4. User pres Twitter link from Footer at left bottom corner.
5. Twitter link redirects to offical Gamayun News Twitter page.

Alternate scenario:

1. Twitter link does not load and user is prompt to try again.
2. Twitter link does not load and relevant error message appears.

4.5.3 Use cases related to Terms of Use Page

Use Case №48: Navigate to Terms of Use

Primary Actor: User
Input: Opening Terms of Use
Output: Terms of Use Page content is displayed

Pre-condition: Installed browser, internet connection and administrator access.
Main Scenario:

1. User initiates browser.
2. User specifies web address for accessing the site.
3. User scroll to page bottom.
4. User pres Terms of Use from Footer at left bottom corner.
5. Terms of Use Page displays.

Alternate scenario:

1. Terms of Use page does not load and user is prompt to try again.
2. Terms of Use page does not load and relevant error message appears.

4.5.4. Use cases related to Contact Page

Use Case №49: Navigate to Contact Page from Main Menu

Primary Actor: User
Input: Opening Contact Page
Output: Home Page content is displayed
Pre-condition: Installed browser, internet connection and administrator access.
Main Scenario:

1. User initiates browser.
2. User specifies web address for accessing the site.
3. User pres Contact from Main Menu.
4. Contact Page displays.

Alternate scenario:

1. Contact page does not load and user is prompt to try again.
2. Contact page does not load and relevant error message appears.

Use Case №50: Navigate to Contact Page from Footer

Primary Actor: User
Input: Opening Contact Page
Output: Home Page content is displayed
Pre-condition: Installed browse and internet connection.
Main Scenario:

1. User initiates browser.
2. User specifies web address for accessing the site.

3. User scroll to page bottom.
4. User pres Contact from Footer at left bottom corner.
5. Contact Page displays.

Alternate scenario:

1. Contact page does not load and user is prompt to try again.
2. Contact page does not load and relevant error message appears

4.5.5. Use cases related to News Posts

Use Case №51: Navigate to News Post from Home Page through Main Menu by clicking on News Title or Image

Primary Actor: User
Input: Opening News Post
Output: News Post content is opened
Pre-condition: Installed browser and internet connection.
Main Scenario:

1. User initiates browser.
2. User specifies web address for accessing the site.
3. List with posted news displays.
4. User scrolls through the list of posted news titles.
5. User click on chosen post title or image.
6. User is redirect to news content.

Alternate scenario:

1. News does not load and user is prompt to try again.
2. News does not load and relevant error message appears.

Use Case №52: Navigate to Next News Post from Navigation Bar

Primary Actor: User
Input: Opening Next News Post
Output: Next News Post content is opened
Pre-condition: Installed browser and internet connection.
Main Scenario:

1. User initiates browser.
2. User specifies web address for accessing the site.
3. List with posted news displays.
4. User scrolls through the list of posted news titles.

5. User click on chosen post title.
6. User is redirected to news content.
7. User pres Next button from Navigation Bar
8. User is redirected to next news content.

Alternate scenario:

1. Next News does not load and user is prompt to try again.
2. Next News does not load and relevant error message appears.
3. Next Button is inactive, because the current post is the first published and user have to select Previous Button or navigate to Home Page from Main Menu or Navigation Bar.

Use Case №53: Navigate to Previous News Post from Navigation Bar

Primary Actor: User
Input: Previous News Post
Output: Previous Post content is opened
Pre-condition: Installed browser and internet connection.
Main Scenario:

1. User initiates browser.
2. User specifies web address for accessing the site.
3. List with posted news displays.
4. User scrolls through the list of posted news titles.
5. User click on chosen post title.
6. User is redirected to news content.
7. User pres Previous button from Navigation Bar
8. User is redirected to previous news content.

Alternate scenario:

1. Previous News does not load and user is prompt to try again.
2. Previous News does not load and relevant error message appears.
3. Previous Button is inactive, because the current post is the latest published news and user have to select Next Button or navigate to Home Page from Main Menu or Navigation Bar.

5. Other Nonfunctional Requirements

5.1. Performance Requirements

In supporting up to 300 000 users at the same time it shall ensure that performance stays consistent for all users. Page performance and server response time will be measured using Google's tool Page Speed Insights.

5.2. Security Requirements

Logn form should have validation to disallow any SQL injectioncs and prevent XSS attacks.

5.3. Software Quality Attributes

5.3.1. Reliability

The website should have an average uptime of 99.9% and should scale to support 300 000 simultaneous users.

5.3.2. Usability

Web site should have a user-friendly interface. Text needs to be readable, navigation should be clear and images should be high quality.

5.3.3. Compitability

5.3.3.1. Compatible Operating Systems:

- Windows
- Linux
- Mac OS

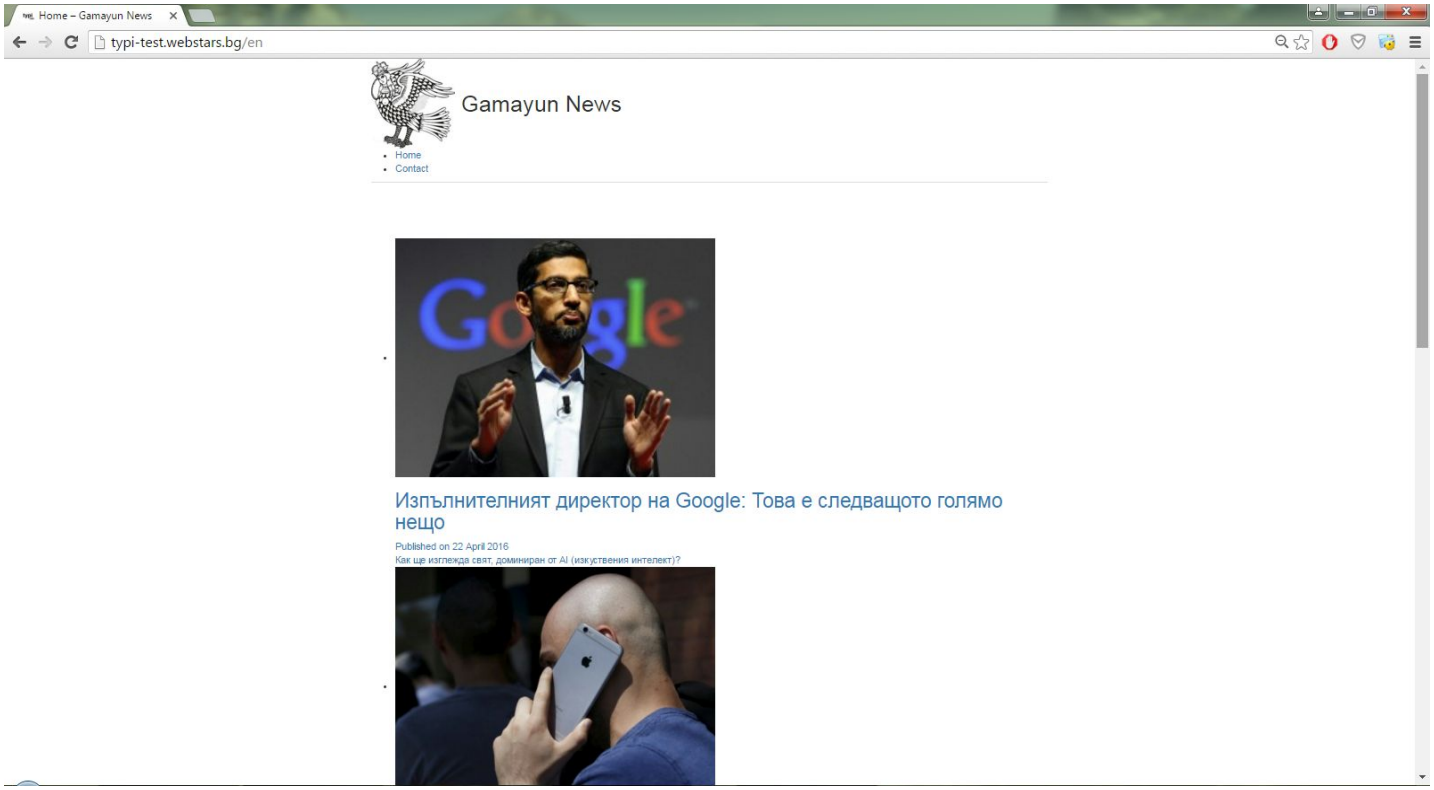
5.3.3.2. Compatible Browsers:

- Microsoft Edge
- Internet Explorer
- Mozilla Firefox
- Google Chrome

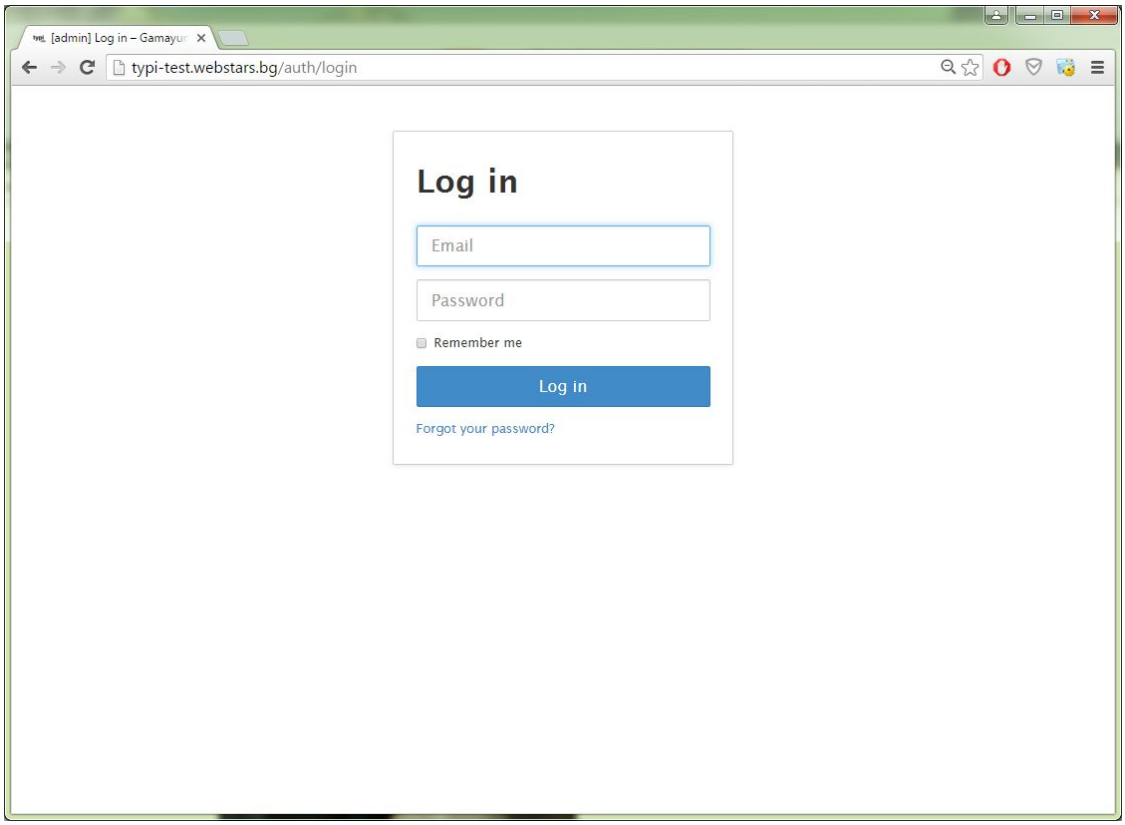
6. Appendix

6.1. Interface

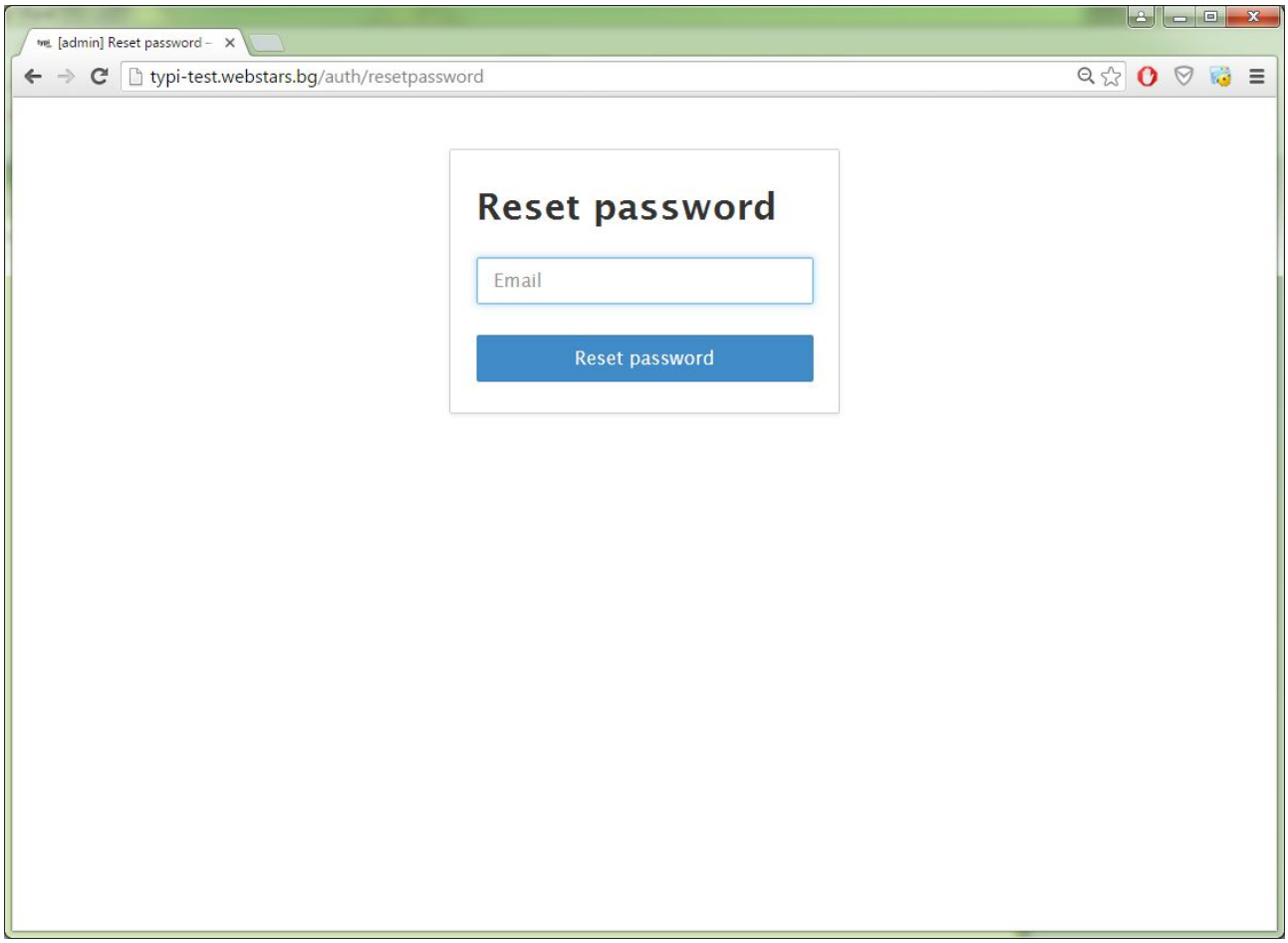
6.1.1. Reader view



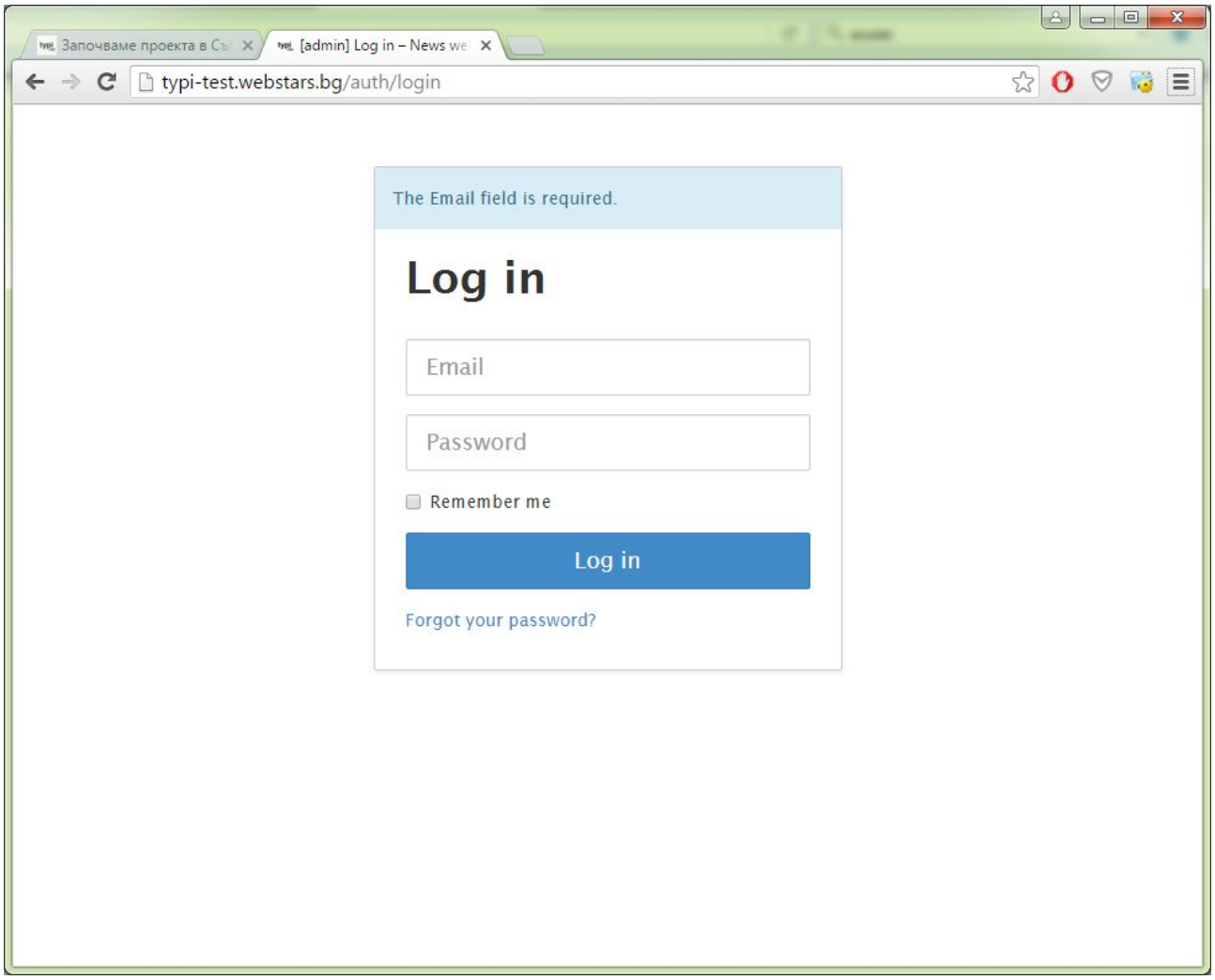
6.1.2. Admin Log in View



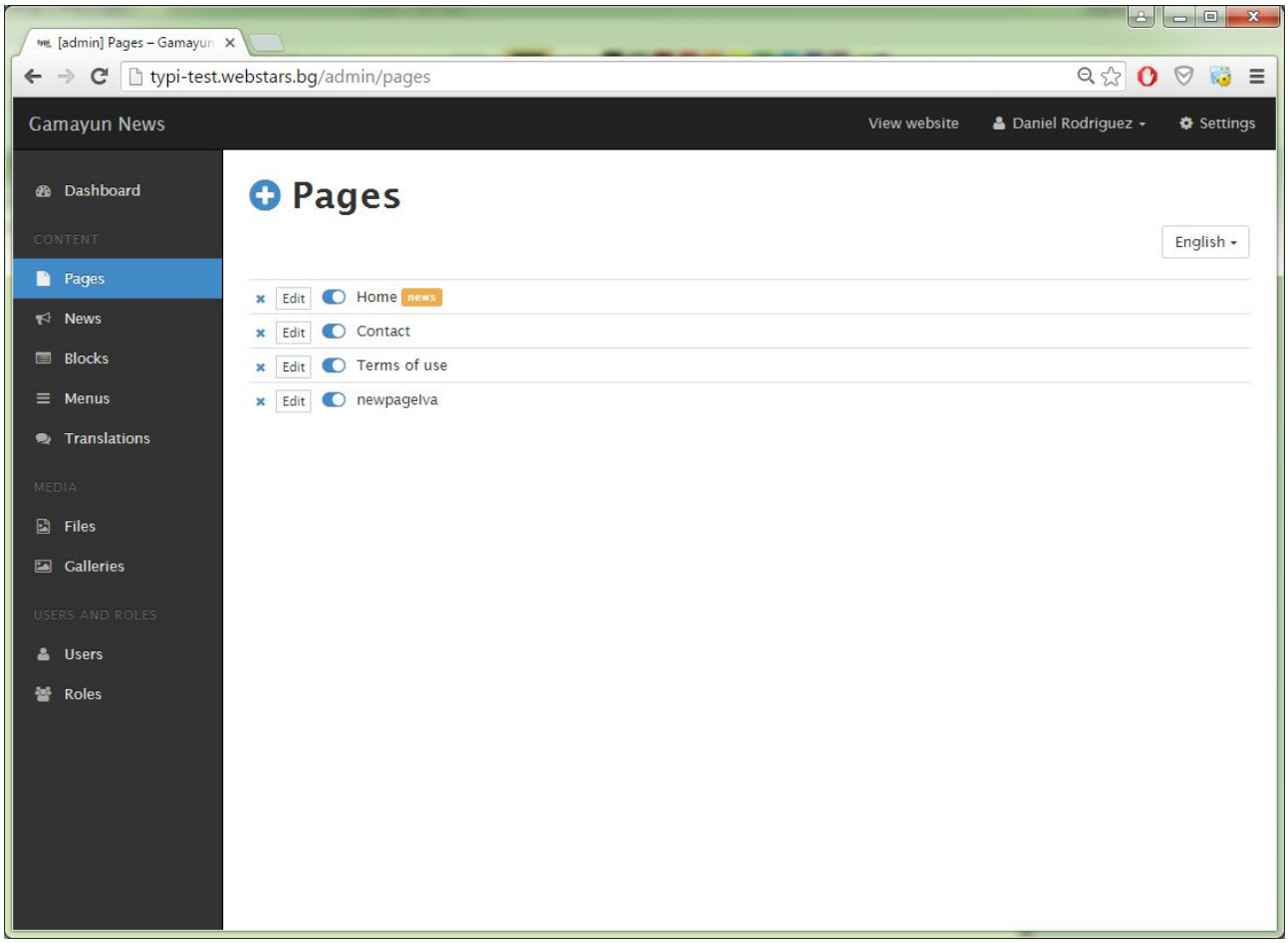
6.1.3. User Admin Reset Password



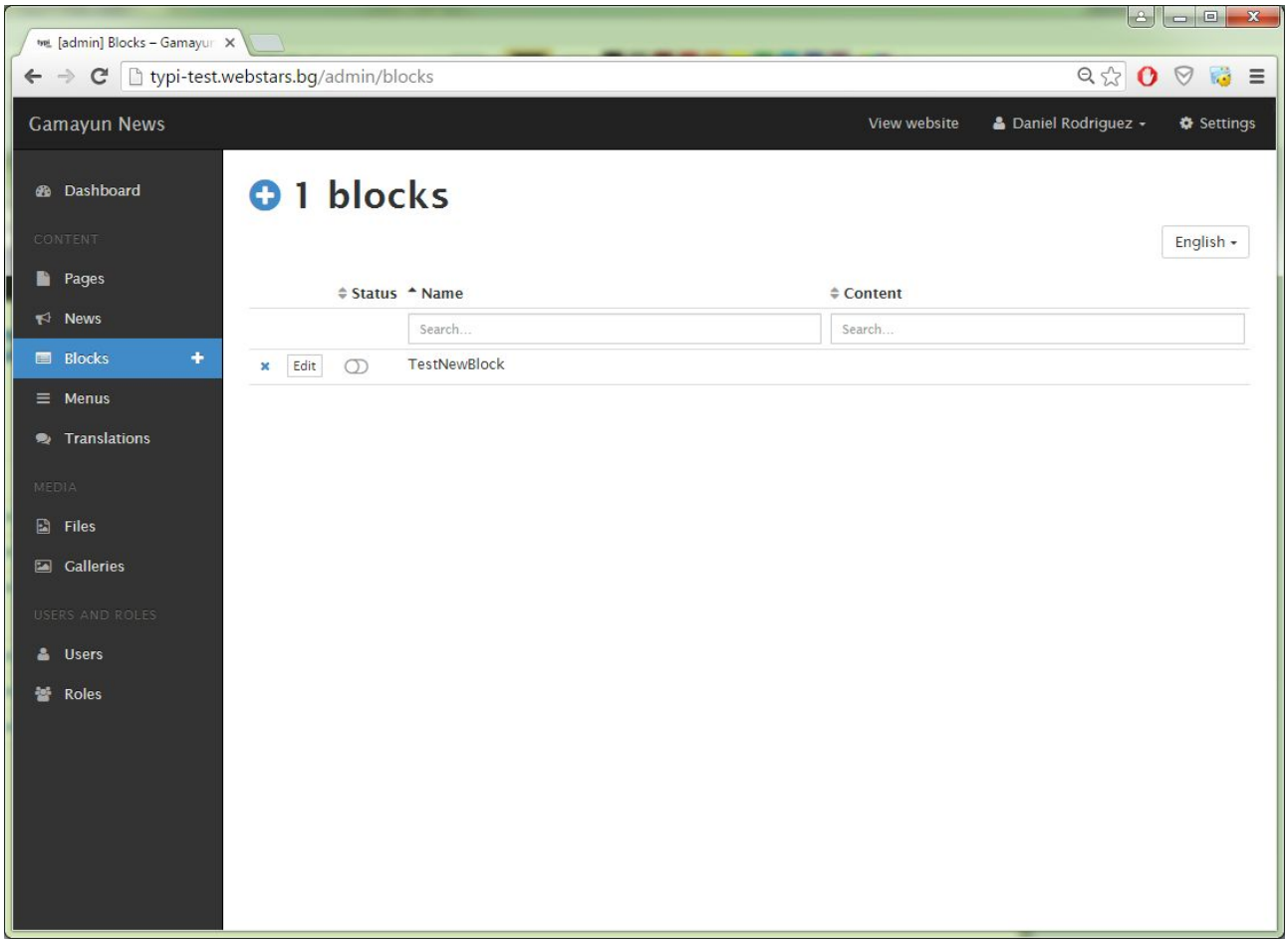
6.1.4. Errors on Log In



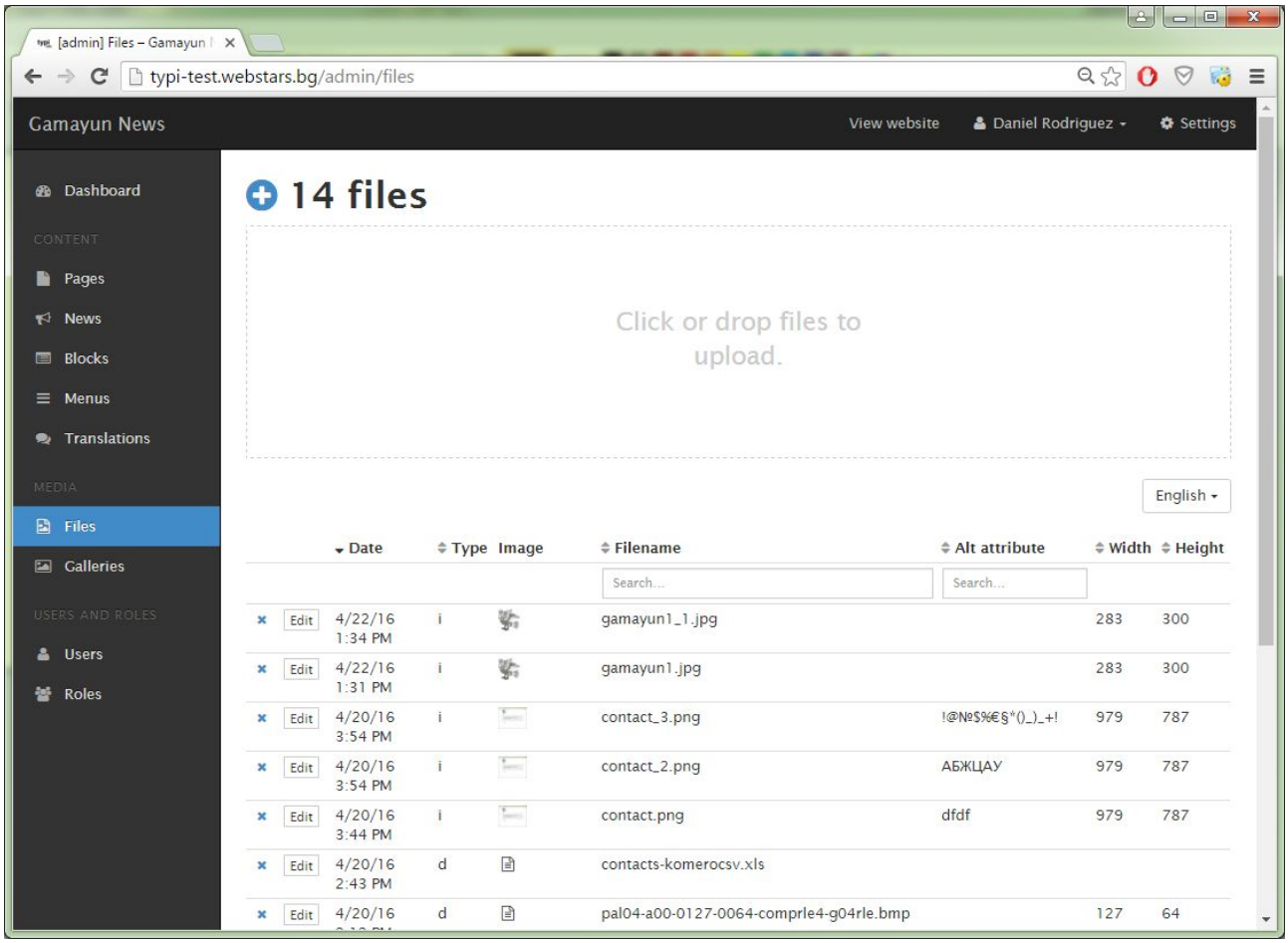
6.1.5. Pages Menu



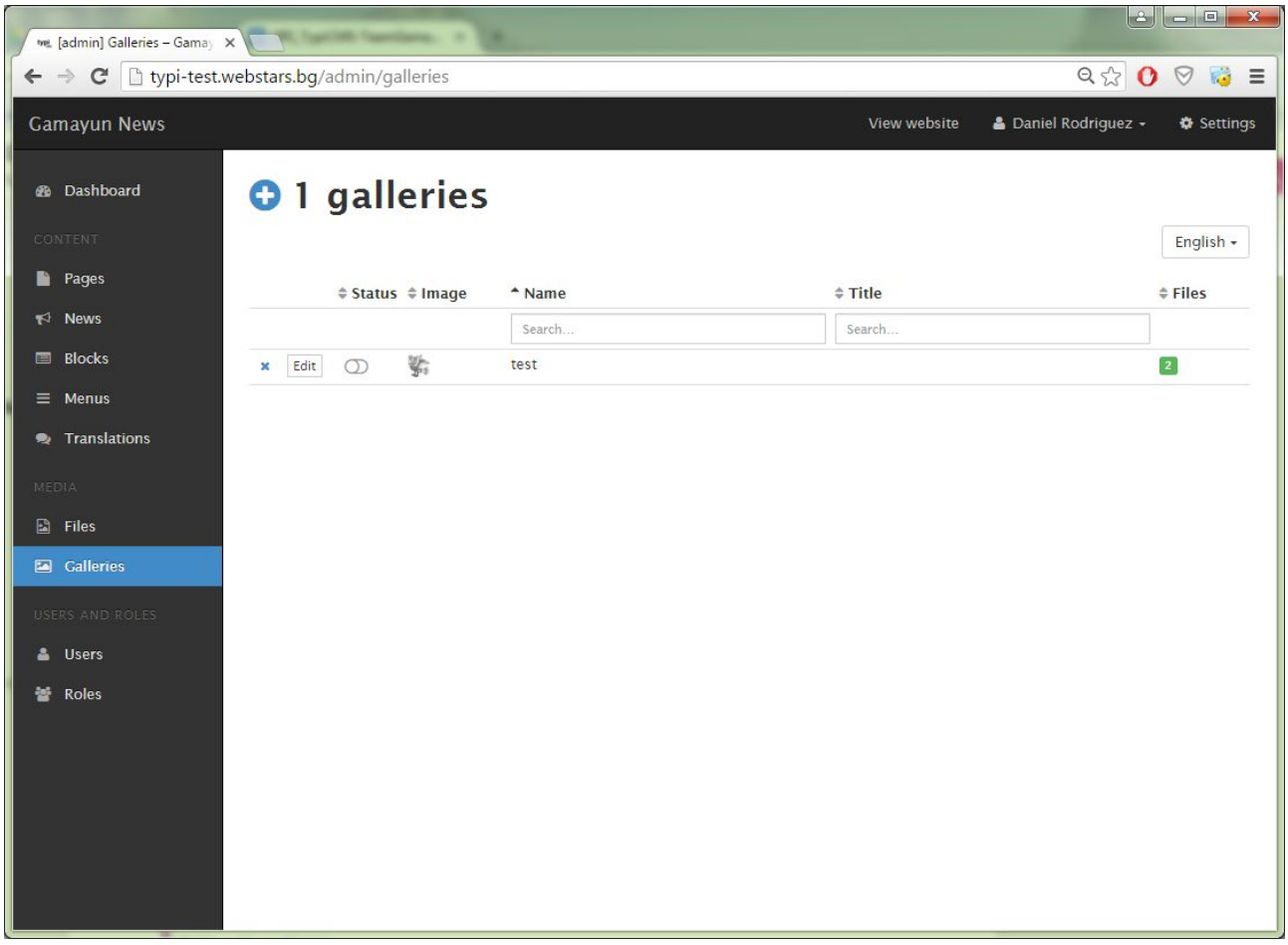
6.1.6. Blocks page



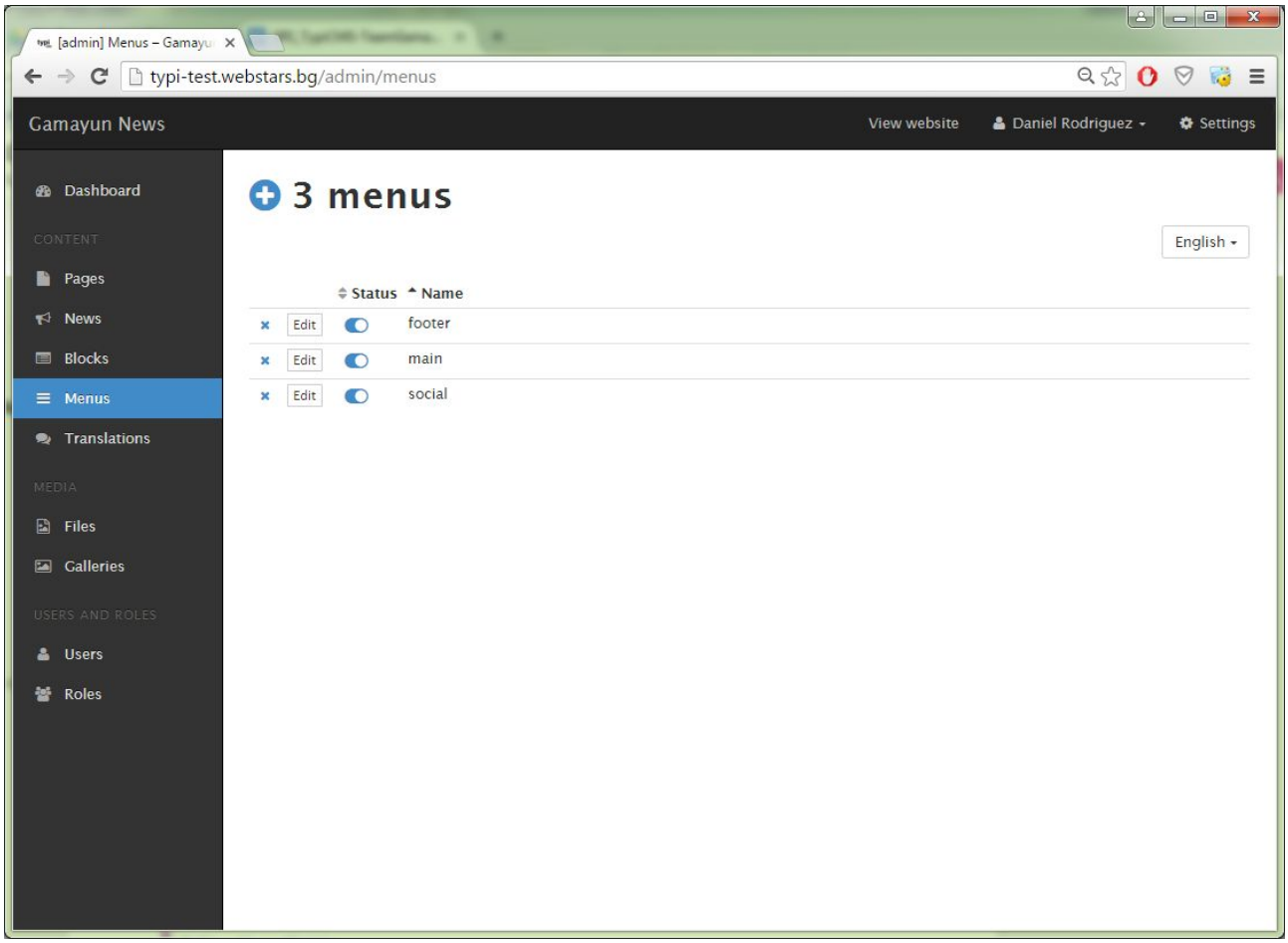
6.1.7. Files page



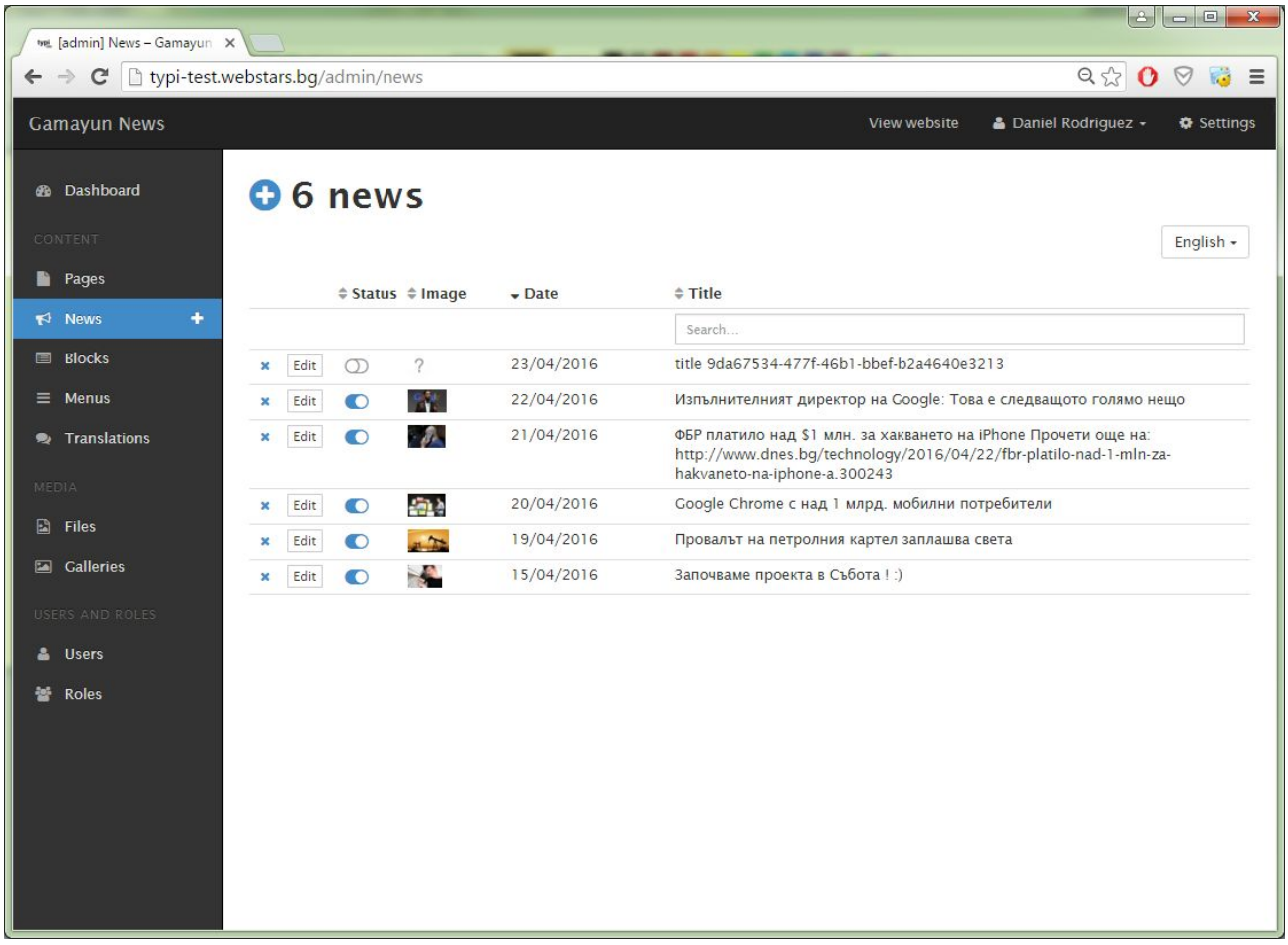
6.1.8. Galleries



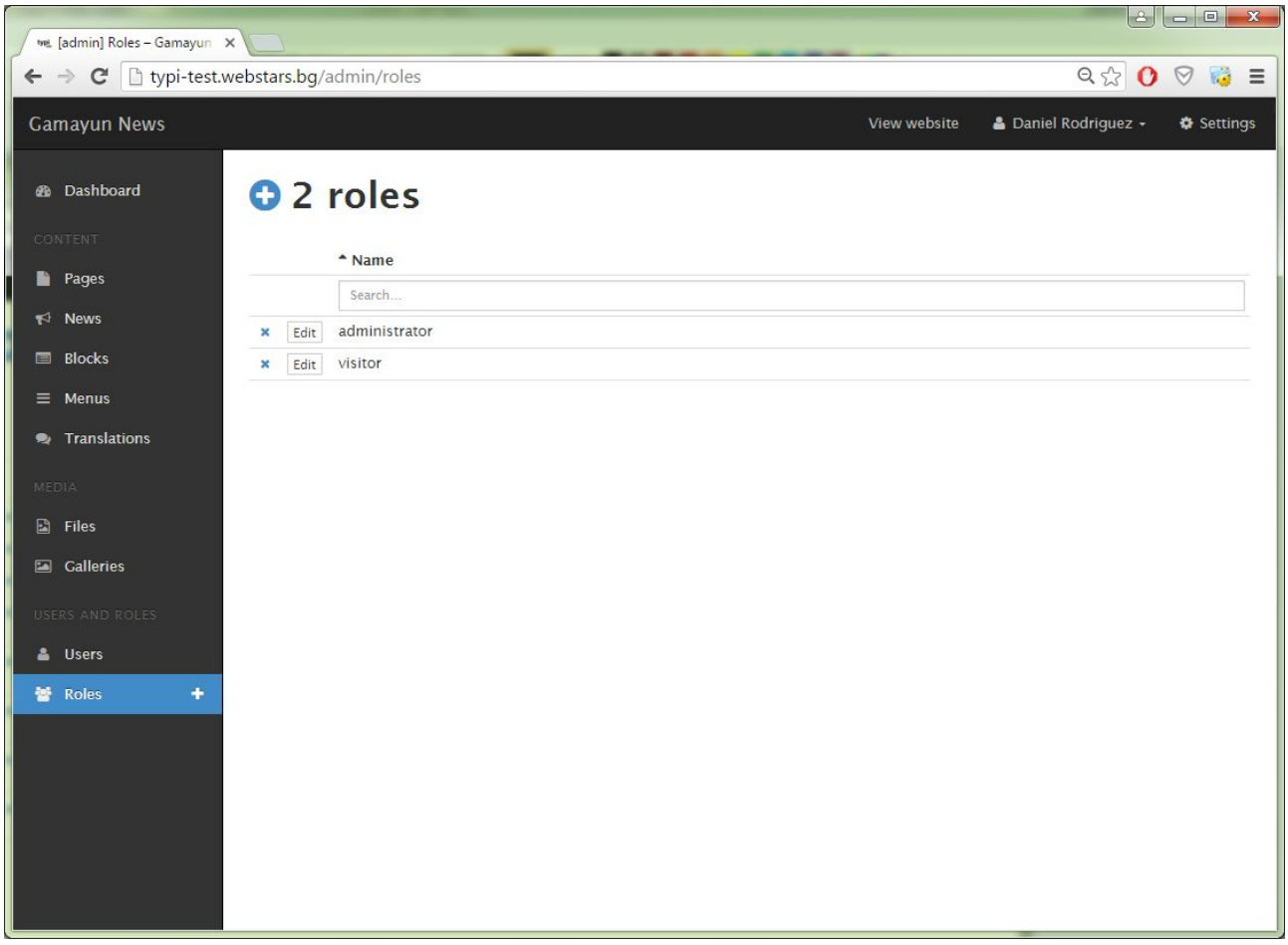
6.1.9. Menus page



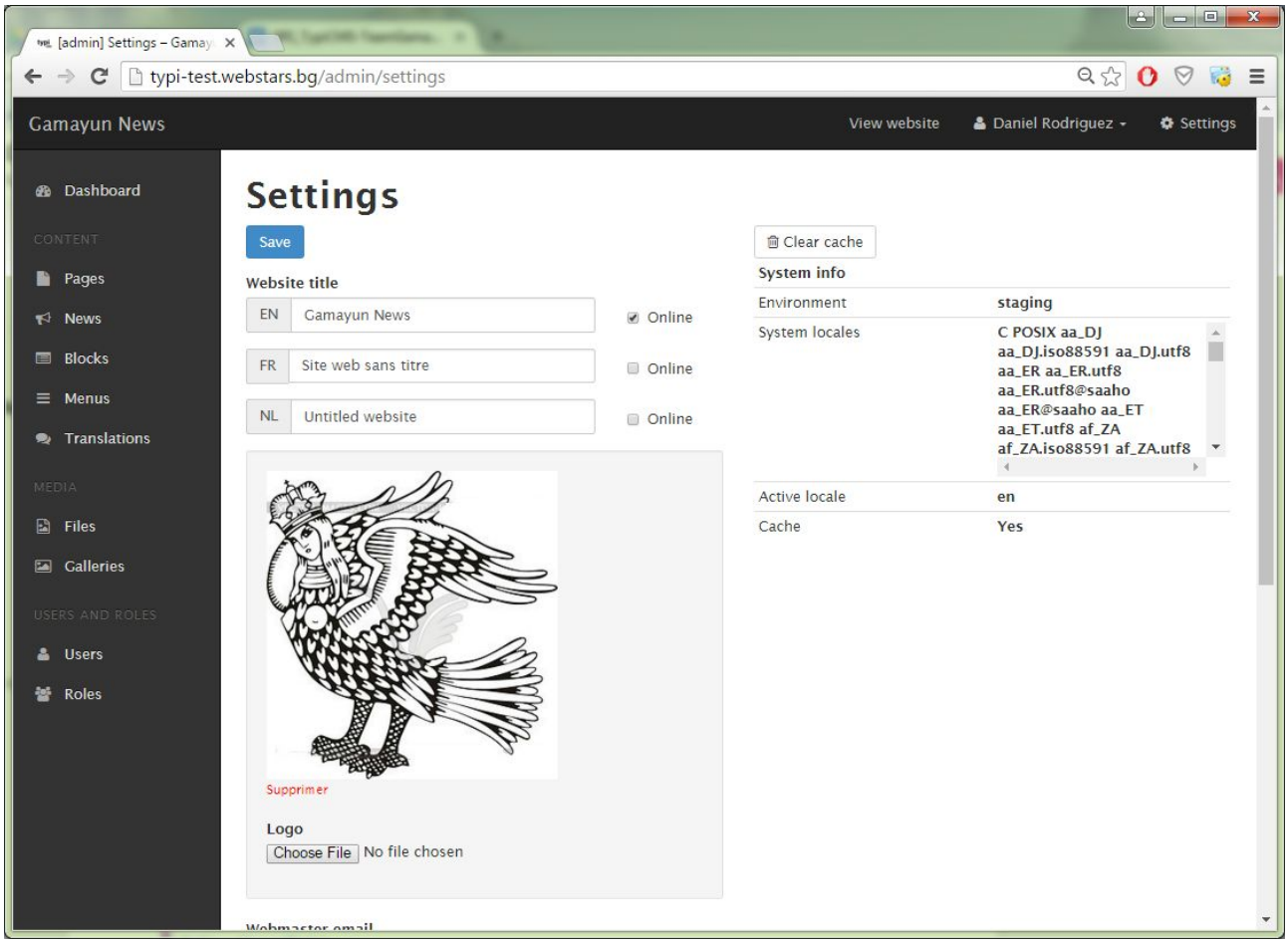
6.1.9. News page



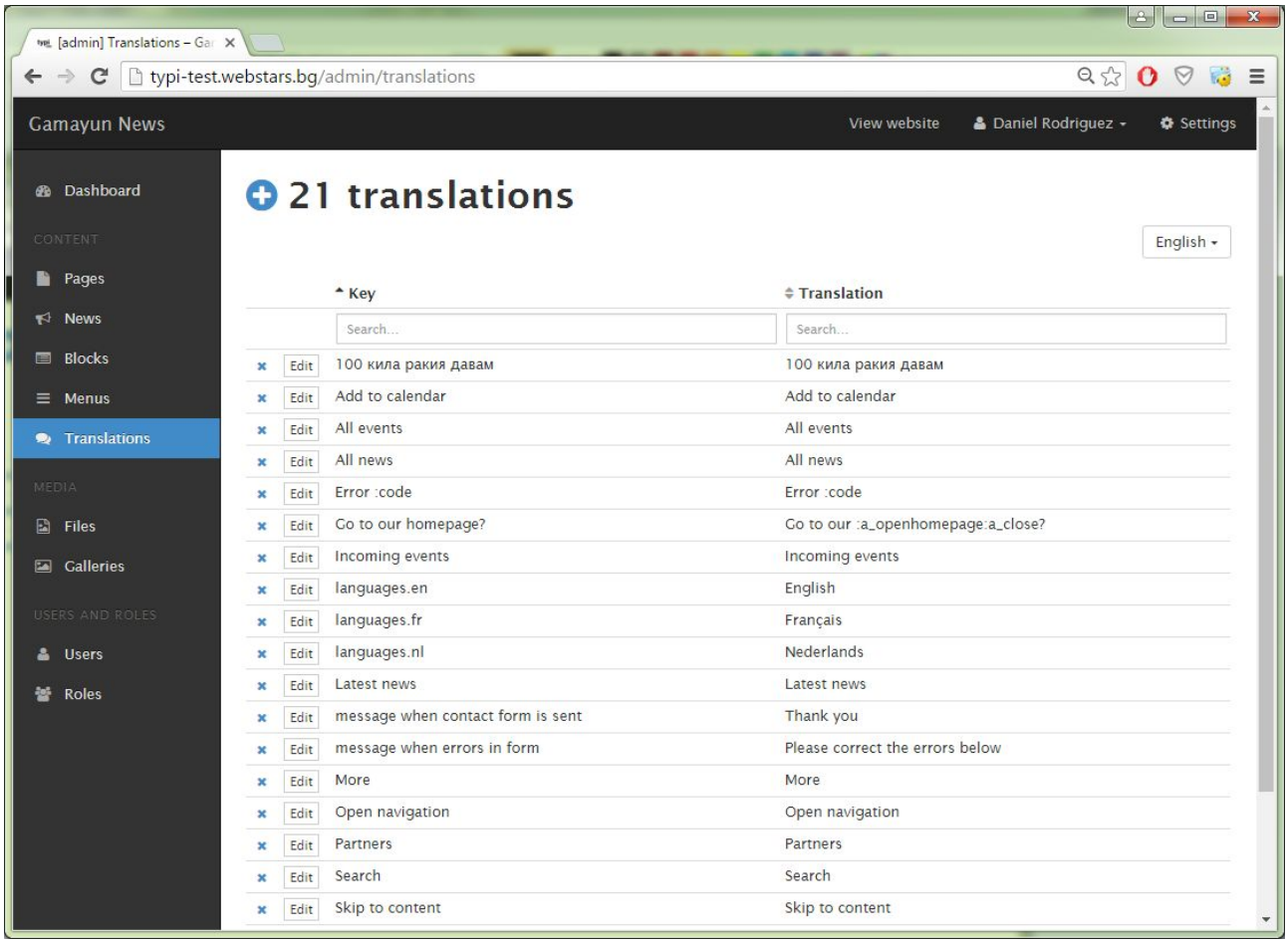
6.1.10. Roles page



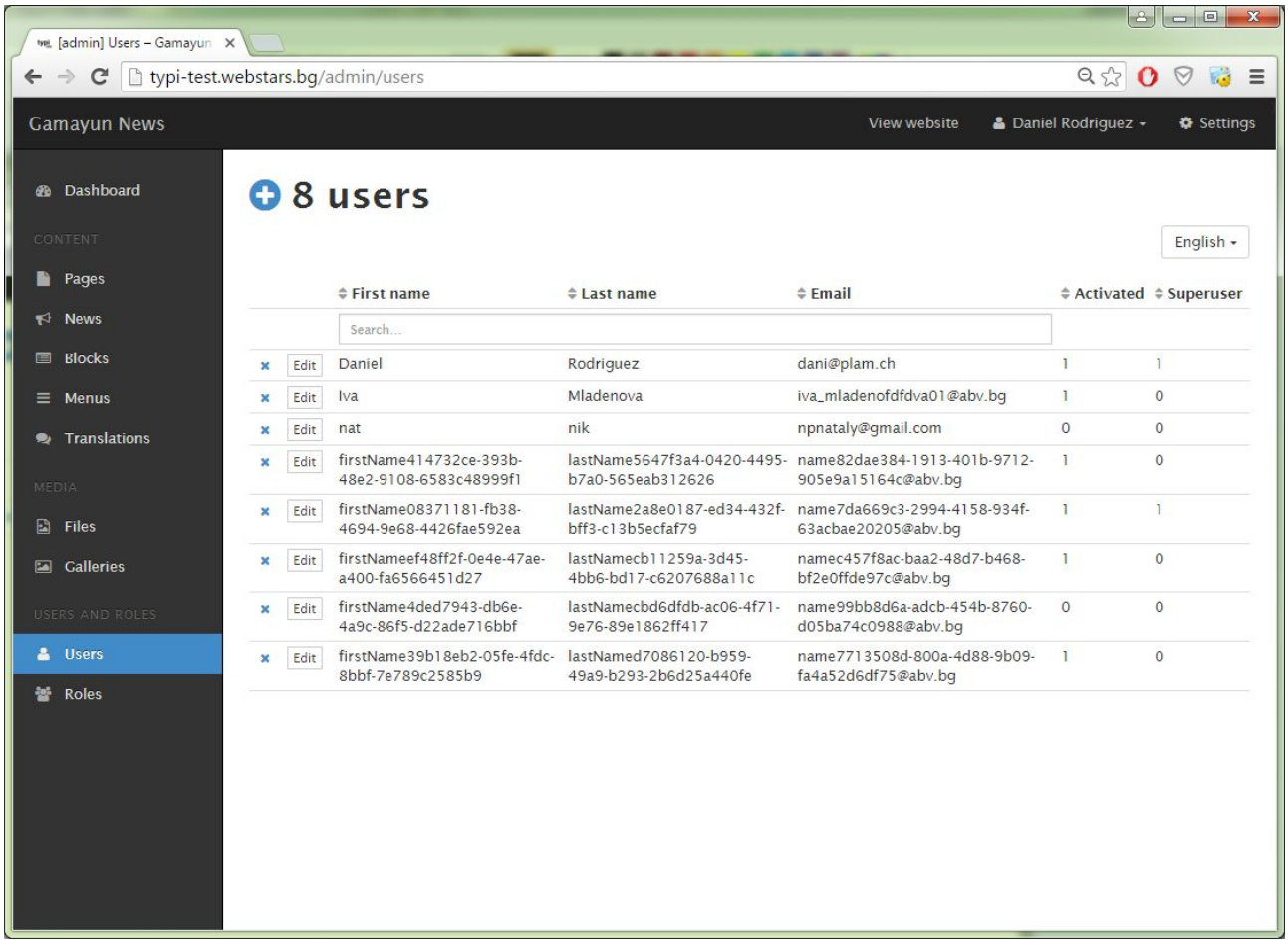
6.1.11. Settings



6.1.12. Translations



6.1.13. Users page



6.2. Use Case Table

Class	Functionality	Number	Uce Cases	Description
Admin Login Page	New Admin	1	Create Admin user	Create admin user for software platform
	Login/out	2	Login as Admin user	Login in software platform as admin user
		3	Logout as Admin user	Logout in software platform as admin user
	“Remember me” and Forgotten Passowrod	4	„Remember me” check box	Remember user email and password
		5	Forgotten password	Redirect to rest password page
		6	Reset password page	Reset of existing password.

Admin Panel	Dashboard	7	Dashboard Page	Accessing Dashboard Page
	Pages	8	Creating Page	Create new page in website
		9	Editing Pages	Edit of existing website page
		10	Deleting Pages	Delite excisting website page
	News	11	Creating News	Create new website post
		12	Editing News	Edit of existing website post
		13	News status change	Change status of website post
		14	Deleting News	Delete existing website post
	Blocks	15	Creating Blocks	Create new block
		16	Editing Blocks	Edit of existing block
		17	Blocks status change	Change status of block
		18	Deleting Blocks	Delete existing block
	Menus	19	Creating Menus	Create new menu item
		20	Editing Menus	Edit of existing menu item
		21	Menus status change	Change status of menu item
		22	Deleting Menus	Delete existing menu item
	Translations	23	Creating Translations	Translating text per selected language
		24	Editing Translations	Change text or translation language.
		25	Delete Translations	Delete existing translation text.
	Files	26	Uploading Files	Upload files in the site.
		27	Editing Files	Change title/description of files
		28	Deleting Files	Delete existing file
	Galleries	29	Uploading Images	Upload image in the site
		30	Editing Images	Change title/description of image
		31	Deleting Image	Delete existing image
	Users	32	Creating Users	Create new user
		33	Editing Users	Edit settings of existing user
		34	Deleting Users	Delete existing user
	Roles	35	Creating Roles	Create new role
		36	Editing Roles	Edit existing role
		37	Delete Roles	Delete existing role
	Navigation Bar	38	View Website	Access Reader/View page from Admin panel
		39	Admin Profile	Access Admin Profile from Navigation Bar

		40	Log Out	Log Out from Navigation Bar
		41	Settings	Navigate to Reade/View Page Settings
Reader/View page	Home Page	42	Home Page from Main Menu	Navigate to Home Page from Main Menu
		43	Home Page from Website Logo	Navigate to Home Page from Website Logo
		44	Home Page from Website Title	Navigate to Home Page from Website Title
		45	Home Page through Navigation Bar	Navigate to Home Page through Navigation Bar
	Social Menu	46	Facebook link	Navigate to Facebook link
		47	Twitter link	Navigate to Twitter link
	Terms of Use	48	Navigate to Terms of Use	Display Terms of Use Page content.
	Contact Page	49	Contact Page from Main Menu	Navigate to Contact Page content from Main Menu
		50	Contact Page from Footer	Navigate to Contact Page content from Footer
	News Posts	51	News Post from Home Page through Main Menu	Navigate to News Post from Home Page through Main Menu by clicking on News Title or Image
		52	Previous News Post from Navigation Bar	Navigate to Previous News Post from Navigation Bar
		53	Next News Post from Navigation Bar	Navigate to Next News Post from Navigation Bar