



New Paltz
STATE UNIVERSITY OF NEW YORK

Youth For Restoration Website

Software Requirement Specification

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Table of Contents

Table of Contents	3
1. Introduction	5
1.1. Purpose	5
1.2. Scope	5
1.3. Definitions, Acronyms and Abbreviations	6
1.4. Technologies to be used	8
1.5. References	9
1.6. Overview	10
2. Overall description	10
2.1. Product perspective	11
2.1.1. Software Interfaces	11
2.1.2. Hardware Interfaces	12
2.2. Product functions	12
2.2.1. Use Case Diagrams	13
2.2.2. Main Use Cases	15
2.3. Mockups	19
2.3.1. Public	19
a. Home Page	19
2.3.2. Admin Panel	20
b. User New	21
c. Users List	22
d. Users Edit	23
e. User Edit Profile	24
f. Events New	25
g. Events Show	26
h. Even List	27
2.4. User characteristics	27
2.5. Constraints	28

2.6. Assumptions and dependencies.....	28
3. Specific requirements	28
3.1. External interfaces.....	29
3.2. Functions.....	29
3.2.1. Main Functions.....	29
3.2.2. Use Cases.....	30
3.3. Security Requirements	56
3.4. Performance requirements	57

1. Introduction

1.1. Purpose

The purpose of this document is to provide the specifications and requirements for developing a website for a non-profit organization named *Youth for Restoration*, yet to be published at the domain.

Additionally, this document intends to describe the technical aspects involved in the development of website such as the features, hardware/software interfaces, and design limitations, testing methodology for both the public and the administrator sections.

This document is destined to the system administrators and developers.

1.2. Scope

The scope of the Youth for Restoration website is to provide a consistent and high quality user experience for the visitors and for the administrators.

The system will consist of two main sections:

Public website: Intended to visits from any person with internet access;

Administrator Panel: Private area where users may manage content from sections as blog, news and events schedule. Users have two levels of authorization, known as roles: Author and Administrator.

Since the potential visitors of the website may be very diverse in terms of their age and internet experience, the public pages of the website will be tailored to provide a clear

and user-friendly environment. The primary objective of the design will be to promote the organization's activities and to encourage the visitors to get involved with the cause.

The administration section will provide an environment for the system administrators to manage users, produce content and to update the website information.

The project will also include the design of a vector logo for the organization.

1.3. Definitions, Acronyms and Abbreviations

Admin Panel	Administration panel - Private part of the system that requires login authentication.
Administrator	Any user with highest level of authorization, which provides ability to manage all the operations of the Admin Panel. Besides the management of the Author role, the administrator user role allows the management of users, sponsors, volunteers and the home page photo slider content.
Author	User role that allows managing blog posts, news, events.
Client	Web browser in the user's machine or plug-ins and helper applications that enhance the browser to support special services from the website.
CSS	Cascading Style Sheets (CSS) is a style sheet language used for describing the look and formatting of a document written in a markup language.
Database	Collection of all the information monitored by this system.
Field	A cell within a form.

HTML (Hyper Text Markup Language)	Markup language used to create web pages.
HTTP - Hyper Text Transfer Protocol	Transaction oriented client/ server protocol between a web browser and a web server.
OS - Operating System	Software that controls the operation of a computer and directs the processing of programs (as by assigning storage space in memory and controlling input and output functions).
Product	The website described by this document.
Server or Web Server	A computer that runs a Website. Using the HTTP protocol, the Web server delivers Web pages to browsers as well as other data files to Web-based applications.
Session	The session of activity that a user with a unique IP address spends on a Web site during a specified period of time.
Stakeholder	Any person with an interest in the project who is not a developer.
System	The whole application that involves the website.
TBD	(Abrev.) To be determined.
User	Anyone who is registered in the database that has login and ability to manage content.
Visitor	Anyone visiting the site.
Widget	An application or a component of an interface, which enables a user to perform a function or access a service.

Table 1.1 - Definitions, Acronyms and Abbreviations.

1.4. Technologies to be used

The following table contains the list of technologies which will be used in the development of the website.

Technology	Description
HTML5	Markup language used to create web pages.
CSS3	Style sheet language used for describing the look and formatting of a document written in a markup language.
JavaScript	Dynamic computer programming language used to allow client-side scripts to interact with the user, control the browser, communicate asynchronously, and alter the document content that is displayed.
JQuery	Cross-platform JavaScript library designed to simplify the client-side scripting of HTML.
PHP	Server-side scripting language designed for web development.

Table 1.2 – Technologies to be used.

1.5. References

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1.6. Overview

The subsequent section of this document brings to main sections, namely Overall Description and Specific Requirements. The former section states the general factors that affect the system and its requirements. The latter section is intended for the developers and it describes the functionalities in detailed technical terms.

2. Overall description

This section intends to describe the general factors that affect the system and its requirements in order to provide a background to the specific requirements brought by section 3.

2.1. Product perspective

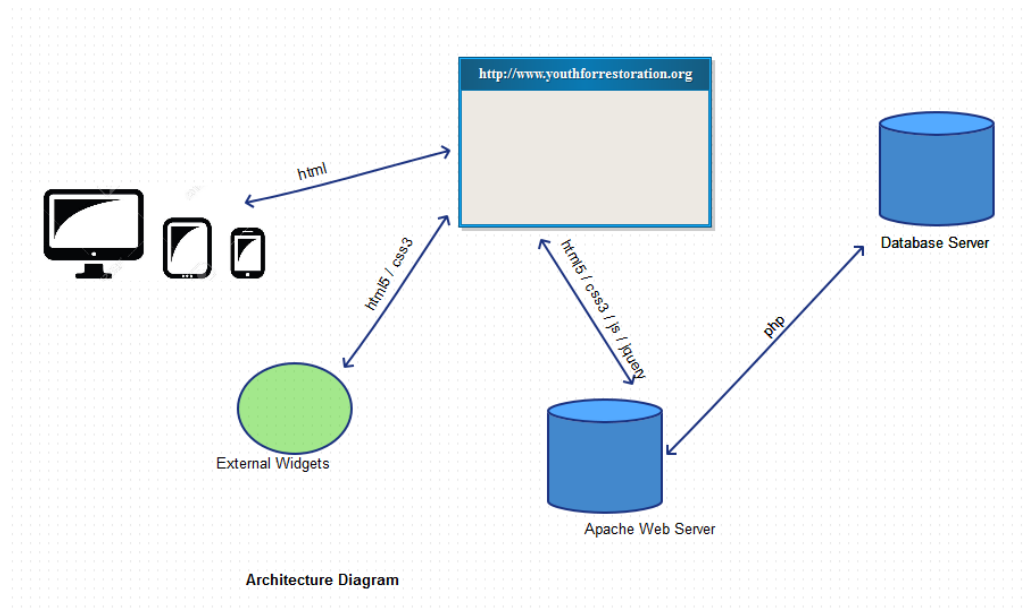


Figure 2.1 - Product Perspective.

2.1.1. Software Interfaces

- Client on Internet: Web browser compatible with HTML5 for better experience, all Operating Systems;
- Web Server: TBD;
- Database Server: TBD;
- Development frontend:
 - HTML5;
 - CSS3;
 - JavaScript;
 - JQuery.

- Development backend
 - PHP.

Supported browsers:

Minimum	Recommended	Full Support List
Chrome (current version)	Chrome (current version)	Chrome (current version)
Internet Explorer 8	Internet Explorer 11	Internet Explorer 8/9/10/11
Firefox (current version)	Firefox (current version)	Firefox (current version)
Safari 5	Safari 8	Safari 5/6/7/8

Table 2.1 - Supported Browsers.

2.1.2. Hardware Interfaces

- Device with Internet connection.
- Devices supported: Computers, Phones and Tablets with browser application.

2.2. Product functions

This section presents a summary of the major functions that the software will perform.

The *Youth for Restoration* website consists of two main interfaces, the public website and the Admin Panel.

2.2.1. Use Case Diagrams

This section shows the use case diagrams involving transaction with the database.

Public Section

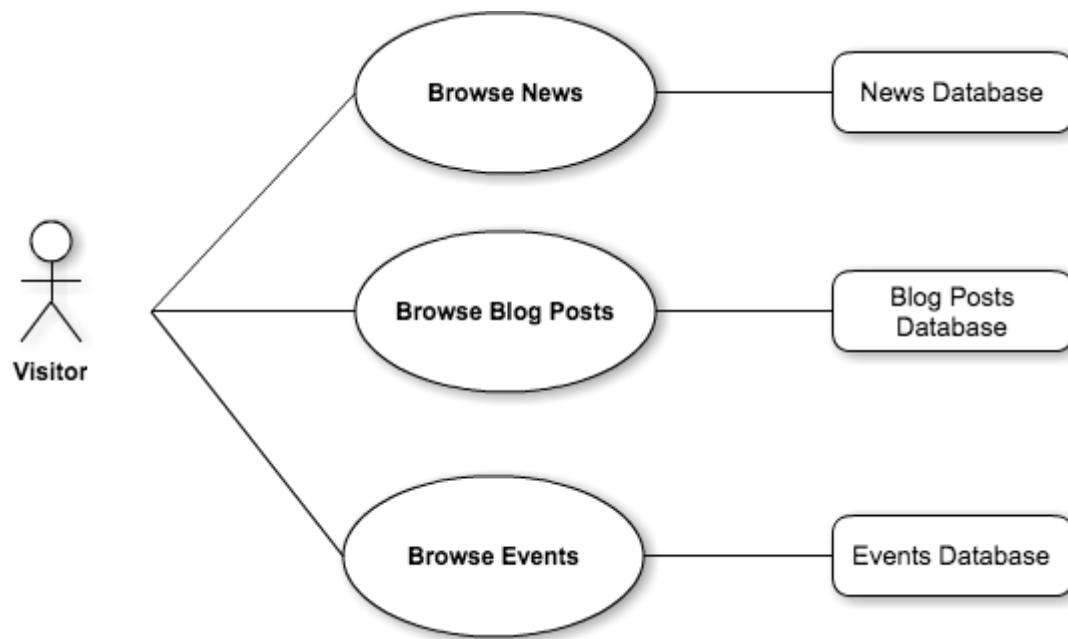


Figure 2.2 - Public Use Cases Diagram

Admin Panel

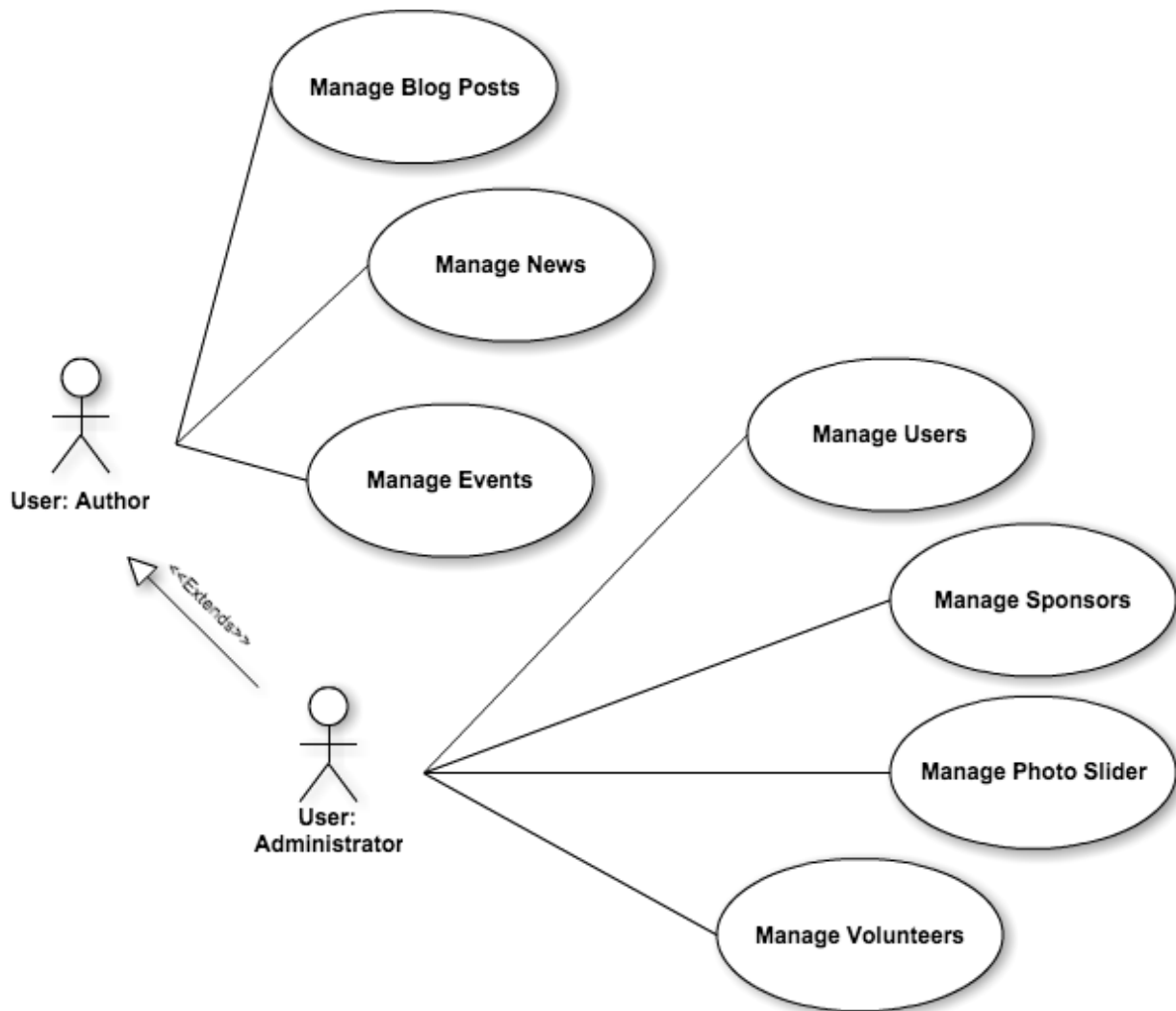


Figure 2.3 Admin Panel Use Cases Diagram

2.2.2. Main Use Cases

Public Section: Main Use Cases

(1) **Use Case:** View home page.

Brief Description: Visitor types in on his/her web browser, which then takes them to the home page of the website.

(2) **Use Case:** Send message to Youth of Restoration.

Brief Description: Visitor clicks the contact link and is directed to the contact page. At this page, a visitor enters valid data on the input fields and a message is sent to the organization email.

(3) **Use Case:** View Facebook widget.

Brief Description: Visitor enters the home page and is able to view the Facebook widget.

(4) **Use Case:** View Photo Slider on the home page.

Brief Description: Visitor enters the home page and shall see a photo slider.

(5) **Use Case:** Become a volunteer.

Brief Description: The visitor enters Get Involved link and is able to send a form with his/her information to become a volunteer.

(6) **Use Case:** Make donation.

Brief Description: The user enters the donation link and is able to see the address to send a check.

Admin Panel: Main Use Cases

- (1) **Use Case:** Authorized access to Admin Panel.

Brief Description: The user enters his/her credentials to access the admin panel of the website which allows them higher privileges on the system. Any unauthorized user/invalid credentials should be denied access to the Admin Panel.

- (2) **Use Case:** Manage Users.

Brief Description: Logged user with Administrator role enters the user section and is able to view, register, update and delete users.

- (3) **Use Case:** Manage Sponsors.

Brief Description: Logged user with Administrator role enters the sponsors section and is able to view, register, update and delete sponsors.

- (4) **Use Case:** Manage Events.

Brief Description: Logged user enters the events section and is able to view, register, update and delete events on the schedule.

- (5) **Use Case:** Manage News.

Brief Description: Logged user enters the news section and is able to view, register, update and delete news.

- (6) **Use Case:** Manage Blog Posts.

Brief Description: Logged user enters the blog posts section and is able to view, register, update and delete blog posts.

- (7) **Use Case:** Manage Volunteers.

Brief Description: Logged user with Administrator role enters the volunteers section and is able to view, register, update and delete volunteers.

(8) **Use Case:** Manage Photo Slider contents.

Brief Description: Logged user with Administrator role enters the Photo Slider section and is able to view, register, update and delete photo slider contents.

Public website

Public web pages with content about the organization as follows:

- Home;
- About us;
- Get Involved;
- Contact;
- Blog;
- News;
- Donation;
- Become a sponsor.

Admin panel

- User actions (View, Register, Edit, Delete) for:
 - Blog posts;
 - News;
 - Events on calendar;
- Administrator actions (View, Register, Edit, Delete) for:
 - Users;
 - Sponsors;
 - Volunteers;

- Blog posts;
- News;
- Events on calendar;
- Photo slider contents.

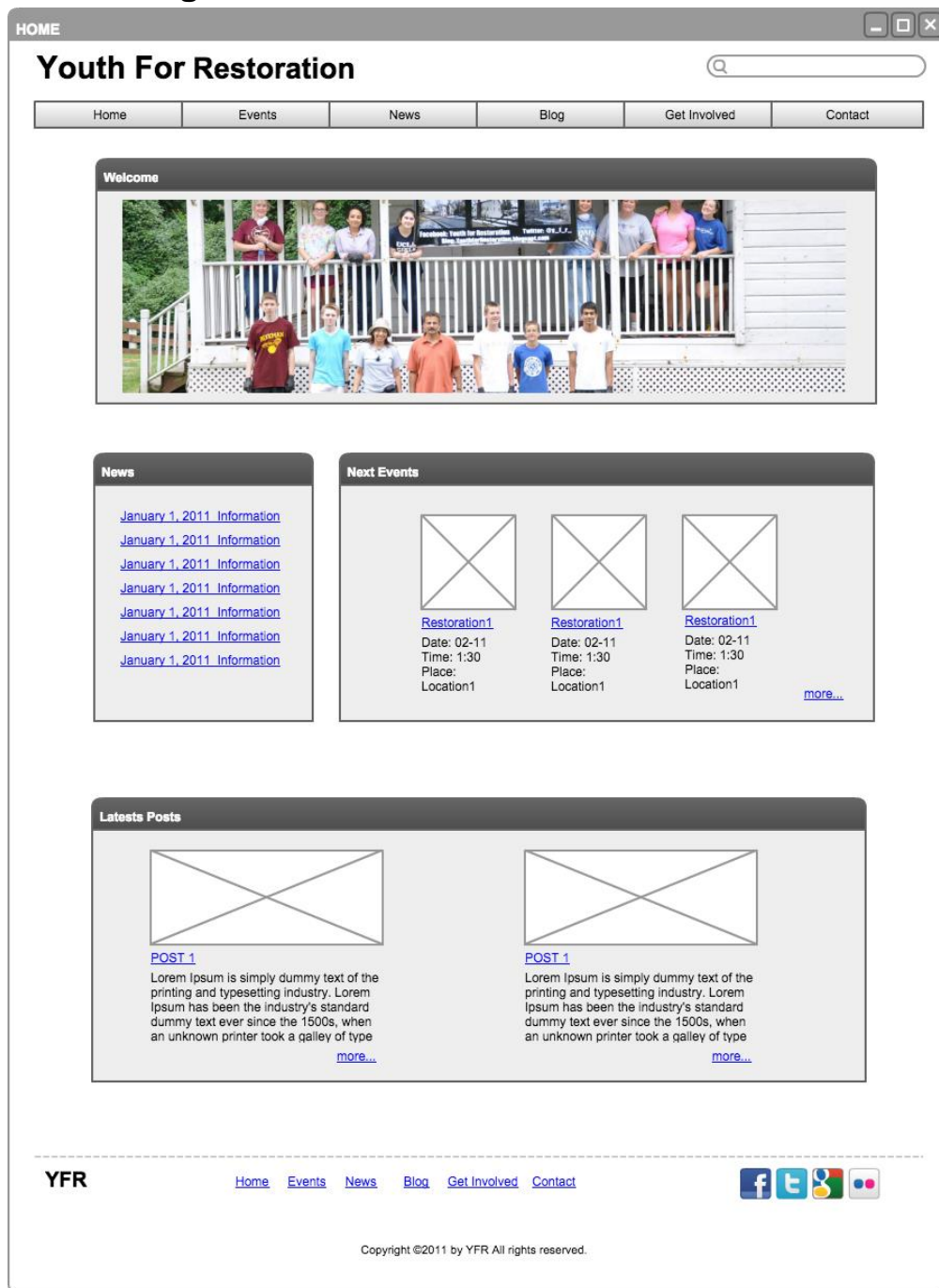
The public pages section will have the following features:

- Photo slider for the home page;
- General search field for blog posts, news and events;
- Social media integration:
 - Social media widgets;
 - Share button for posts and news.

2.3. Mockups

2.3.1. Public

a. Home Page



2.3.2. Admin Panel

a. Login

The screenshot shows a web browser window titled "AMIN PANEL - LOG IN". The main heading of the page is "Youth For Restoration - Admin Panel". In the center, there is a "Welcome" modal box containing a login form. The form has two input fields: "Email" with the placeholder text "Insert your email" and "Password" with the placeholder text "Insert your password". Below the password field is a checkbox labeled "Remind me" and a "Login" button. A blue link labeled "Forgot password" is positioned below the "Remind me" checkbox. At the bottom of the page, there is a dashed line, followed by the "YFR" logo on the left and the copyright notice "Copyright ©2011 by YFR All rights reserved." on the right.

AMIN PANEL - LOG IN

Youth For Restoration - Admin Panel

Welcome

Email

Password

☐ Remind me

[Forgot password](#)

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b. User New

The screenshot displays the 'ADMIN PANEL' for 'Youth For Restoration'. On the left is a sidebar menu with links: USERS, SPONSORS, BLOG POSTS, NEWS, EVENTS, and HOME PHOTO SLIDER. The main content area is titled 'New User' and contains a form with the following fields: 'Name' (filled with 'George'), 'Email' (filled with 'george@yfr.org'), and 'Role' (a dropdown menu with 'Administrator' and 'Author' options). Below the form are 'Cancel' and 'Save' buttons. In the top right corner, there is a user profile icon, the text 'Welcome Paul!', and a link to 'Edit profile'. The footer includes the 'YFR' logo and the copyright notice 'Copyright ©2011 by YFR All rights reserved.'

ADMIN PANEL

Youth For Restoration

Welcome Paul!
[Edit profile](#)

New User

Name:

Email:


Role:

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c. Users List

ADMIN PANEL

Youth For Restoration



Welcome Paul!
[Edit profile](#)

USERS
SPONSORS
BLOG POSTS
NEWS
EVENTS
HOME PHOTO SLIDER

Users List

Add User

ID	NAME	Role	EMAIL	ACTIONS
1	Paul	Administrator	paul@yfr.org	View Edit Delete
2	Ringo	Author	ringo@yfr.org	View Edit Delete
3	John	Author	john@yfr.org	View Edit Delete


YFR

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d. Users Edit

ADMIN PANEL

Youth For Restoration



Welcome Paul!
[Edit profile](#)

USERS

SPONSORS

BLOG POSTS

NEWS

EVENTS

HOME PHOTO SLIDER

Edit User - John

User ID: 1

Name:

Email:

Role:

Administrator

Author

Cancel

Save


YFR

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e. User Edit Profile

ADMIN PANEL

YOUTH FOR RESTORATION

[Change Picture](#)

USERS

SPONSORS

BLOG POSTS

NEWS

EVENTS

HOME PHOTO SLIDER

EDIT YOUR PROFILE

User ID: 1

Name:

Email:

Address

Address 1:

Address 2:

ZIP:

City:

Contact

Phone:

Mobile:

Cancel

Save


YFR

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f. Events New

ADMIN PANEL

YOUTH FOR RESTORATION


[Change Picture](#)

USERS

SPONSORS

BLOG POSTS

NEWS

EVENTS

HOME PHOTO SLIDER

New Event

Name:

Date: Time:

Address

Address 1:

Address 2:

ZIP:

City:

Contact



Name:

Email:

Phone:

Mobile:

Add Pictures



YFR


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25

g. Events Show

ADMIN PANEL

YOUTH FOR RESTORATION

[Change Picture](#)

[USERS](#)
[SPONSORS](#)
[BLOG POSTS](#)
[NEWS](#)
[EVENTS](#)
[HOME PHOTO SLIDER](#)

Event 13

[Back](#)[Edit](#)

Name: Old House Blues

Date: 02-08-2015

Time: 10 pm

Address

Address 1: 109, A St
Address 2: 109, A St
ZIP: 12345
City: New Paltz


Description

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed congue libero nibh, sed venenatis augue interdum eget. Vivamus sit amet arcu eu erat lacinia condimentum sit amet sed mi. Aenean metus nisl, efficitur eget mauris a, tempor tincidunt lacus. Etiam quis nisl a lacus vulputate ultrices.

Contact

Name: Max Plank
Email: plank@quantum.com
Phone: 12345
Mobile: 12345

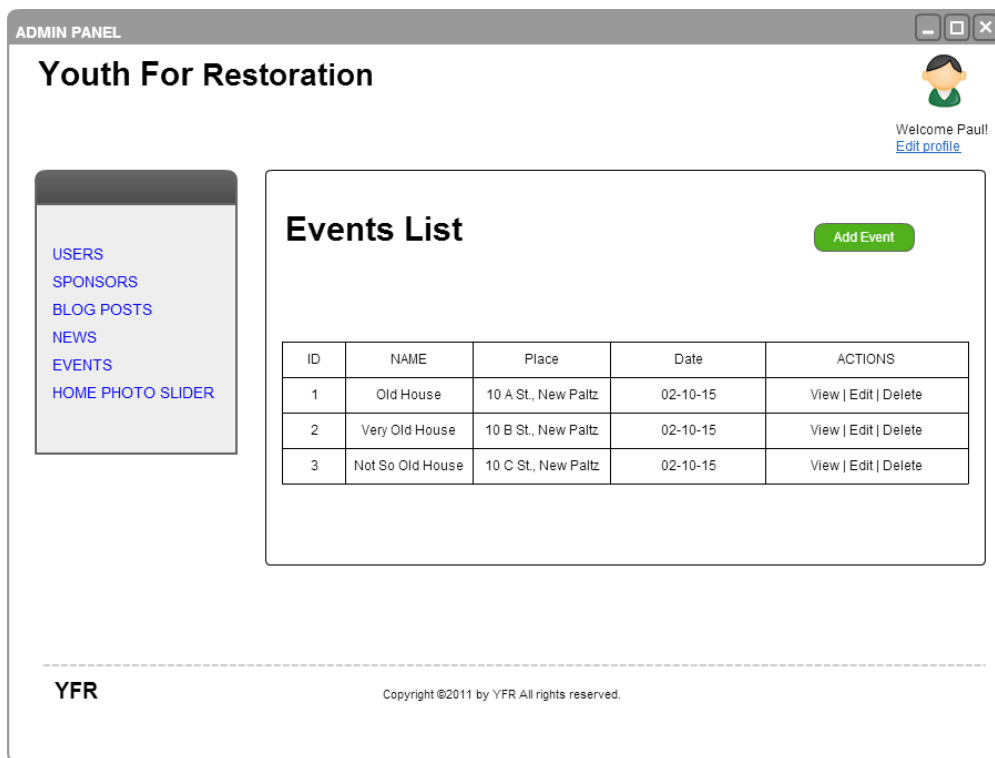
Pictures



YFR

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h. Even List



2.4. User characteristics

The baseline functionality of the proposed website is intended for users who are familiar with using basic Internet skills such as opening a web browser. However, the Admin Panel of the proposed website requires users with at least high school level education or some technical skills involving administering a website.

2.5. Constraints

- a. Regulatory policies: The proposed website for Youth For Restoration shall adhere to all applicable State and Federal regulations in accordance with the 501(c) (3) non-profit status.
- b. Interfaces to other applications: Certain features of the website at times could be impacted due to its reliability on interfacing with other applications such as social media, Payment processing sites etc.
- c. Control functions: The contents of the website shall be administered by an authorized user with administrator privileges.

2.6. Assumptions and dependencies

Certain advanced functionalities in the administration mode of the proposed website shall be developed under the assumption that there exists an administrator capable of managing it. Any changes to this condition shall require changes to the existing document.

3. Specific requirements

This section is about detailed requirements and it is intended to support web developers.

3.1. External interfaces

The software system of the Youth For Restoration website primarily resides on the Apache Web server. The system interfaces with the database server using PHP programming language to store and retrieve data, links with external widgets such as social media and payment related applications interface using JavaScript. Finally, it also interfaces with the client web browser using Hyper Text Transfer Protocol on any network enabled Windows or Mac client computers.

3.2. Functions

In this sub-section the functionalities that the website will offer are described in detail.

3.2.1. Main Functions

Public Pages:

- a. The website shall be accessible using most commercial browsers.
- b. The website shall display the home page by default upon entry by the user.
- c. The website shall prominently display the widgets for social media and payment related external interfaces.
- d. The website shall have a drop-down menu option to choose additional features.

Admin Panel:

- a. The website shall display a “The website is currently down for maintenance. Please check back shortly.” while undergoing upgrades.
- b. The website shall allow an authorized user with higher privileges to edit or delete the contents of the website.

3.2.2. Use Cases

Public Mode

1. View blog page

Use Case Name

View Blog.

Trigger

The visitor clicks on the blog menu button.

Precondition

The visitor is at the home page.

Basic Path

1. Visitor types in the www.youthforrestoration.org website URL in their web browser. System shows the home page in the browser.
2. Visitor clicks on the blog link which will then display the contents of the blog.

Alternate Path

1a. Direct URL path to blog

1. The visitor types types in www.youthforrestoration.org/blog directly into their web browser.
2. System takes the visitor to the blog page without having to navigate through the home page.

2a. Blog page unavailable

1. System does not show the home page of the www.youthforrestoration.org website due to connectivity or other technical issues.
2. System displays a “404 - Website not found” error message.

Post condition

The blog page has been displayed.

Exception Path

Visitor may abandon the process at any time.

2. View news page

Use Case Name

View News.

Trigger

The visitor clicks on the News menu button.

Precondition

The visitor has successfully accessed the home page which displays the menu button “News”.

Basic Path

1. The visitor types in the www.youthforrestoration.org website URL in their web browser.
2. Visitor clicks on the news link located at the center left, which will then display the content of the News section.

Alternate Path

1a. News page unavailable

1. The visitor is unsuccessful accessing the home page of the www.youthforrestoration.org website due to connectivity or other technical issues.
2. System displays a “404 - Website not found” error message.

2a. Direct URL path to blog

1. Visitor types in www.youthforrestoration.org/news directly into their web browser.
2. System takes visitor to the News page without having to navigate through the home page.

Post condition

The news page has been displayed.

Exception Path

Visitor may abandon the process at any time.

3. View events page

Use Case Name

View Events.

Trigger

Visitor clicks on the Events icon.

Precondition

Visitor has successfully accessed the home page which displays the icon “Events” at the center right part of the page.

Basic Path

1. Visitor types in the www.youthforrestoration.org website URL in their web browser.
2. The system displays the Home page of the website containing the Events menu button.
3. Visitor clicks on the Events menu button.
4. System displays the content of Events.

Alternate Path

1a. News page unavailable

1. Visitor is unsuccessful accessing the home page of the www.youthforrestoration.org website due to connectivity or other technical issues.
2. System displays a “404 - Website not found” error message.

2a. Direct URL path to blog

1. Visitor types in www.youthforrestoration.org/Events directly into their web browser.
2. System takes the visitor to the Events page without having to navigate through the home page.

Post condition

The Events page has been displayed.

Exception Path

Visitor may abandon the process at any time.

4. Send email through contact form

Use Case Name

Send email through contact form.

Trigger

Visitor clicks on contact tab located on the top right section of the home page.

Precondition

Visitor is at the home page.

Basic Path

1. Visitor types in the www.youthforrestoration.org website URL in their web browser. System shows the home page in the browser.
2. Visitor clicks on the Contact menu button.
3. System displays the Contact form page.
4. Visitor types in the name in the “Your name” field, a valid email address in the “Your email address” field and a brief message in the “Your message” field and clicks the “send email” button.
5. System sends email to contact email address of Youth For Restoration.

Alternate Path

1a. Direct URL path to contact form

1. Visitor types in www.youthforrestoration.org/contact directly into their web browser.

2. System takes the visitor directly to the contact form page.

2a. Contact form unavailable

1. System does not show the contact form page of the website due to connectivity or other technical issues.
2. System displays a “404 - Website not found” error message.

3a. Invalid Characters

Visitor types in invalid characters in either the “Your name” or the “Your email address” field. This might prevent from the visitor from successfully complete the send email function.

Post condition

The send email function has successfully completed and the system displays the “Email has been sent” message.

Exception Path

Visitor may abandon the process at any time.

5. View Facebook widget

Use Case Name

View Facebook widget.

Trigger

Visitor enters the home page.

Precondition

Visitor is at the website homepage.

Basic Path

1. Visitor types in the www.youthforrestoration.org website URL in their web browser.
2. System shows the home page in the browser.
3. Visitor scrolls down to the bottom of the home page to locate the Facebook widget.
4. Visitor clicks on the Facebook icon which then redirects the visitor to the Facebook page of Youth For Restoration.

Alternate Path

2a. Facebook Widget Inoperable

1. The accessibility of the Facebook widget primarily depends on the system readiness of the external Facebook system which is independent of the *www.youthforrestoration.org* website. Therefore, the link might not provide the expected results sometimes due to external factors.
2. Visitor may have to verify the functionality of the *www.facebook.com* website separately.

Post condition

The Facebook home page of Youth For Restoration is displayed successfully in a new window.

Exception Path

Visitor may abandon the process at any time.

6. See Twitter widget

Use Case Name

See Twitter widget.

Trigger

Visitor clicks on the Twitter logo located on the bottom right corner of the home page.

Precondition

Visitor is at the website homepage.

Basic Path

1. Visitor types in the *www.youthforrestoration.org* website URL in their web browser.
2. System shows the home page in the browser.
3. Visitor scrolls down to the bottom of the home page to locate the Twitter widget.
4. Visitor clicks on the Twitter icon which then redirects the visitor to the Twitter page of Youth For Restoration.

5. Visitors might then be able to perform various functions enabled by Twitter.

Alternate Path

1a. Direct path to Twitter page:

Visitor may choose to view the Youth For Restoration Twitter page by typing in www.twitter.com/youthforrestoration on their web browser.

2a. Twitter Widget Inoperable:

1. The accessibility of the Twitter widget primarily depends on the system readiness of the external Twitter system which is independent of the *www.youthforrestoration.org* website. Therefore, the link might not provide the expected results sometimes due to external factors.
2. Visitor may have to verify the functionality of the www.twitter.com website separately.

Post condition

The Twitter home page of Youth For Restoration is displayed successfully in a new window.

Exception Path

Visitor may abandon the process at any time.

7. Search for blog posts

Use Case Name

Search blog posts.

Trigger

Visitor types in one or more keywords in the search field located at the top right corner of the blog page.

Precondition

Visitor is in the Blog page.

Basic Path

1. Visitor types in one or more keywords in the search field and clicks the search button.
2. System displays the results matching the keywords.

Alternate Path

2a. No results are found

1. “No matching results found” message.

Post condition

The Blog page search results has been displayed.

Exception Path

Visitor may abandon the process at any time.

8. Search for News

Use Case Name

Search News.

Trigger

Visitor types in one or more keywords in the search field located at the top right corner of the News page.

Precondition

Visitor is in the News page.

Basic Path

1. Visitor types in one or more keywords in the search field and clicks the search button.
2. System displays the results matching the keywords.

Alternate Path

2a. No results are found

1. System shows “no matching results found” message.

Post condition

The News page search results has been displayed.

Exception Path

Visitor may abandon the process at any time.

9. Search for events

Use Case Name

Search Events.

Trigger

Visitor types in one or more keywords in the search field located at the top right corner of the Events page.

Precondition

Visitor is in the Events page.

Basic Path

1. Visitor types in one or more keywords in the search field and clicks the search button.
2. System displays the results matching the keywords.

Alternate Path

2a. No results are found

1. System shows “no matching results found” message.

Post condition

The Events page search results has been displayed.

Exception Path

Visitor may abandon the process at any time.

10. Share content on social networks

Admin Panel - User

1. Log in to Admin Panel

Use Case Name

Admin Panel login.

Trigger

The user enters the Admin Panel login page at /admin.

Precondition

The User has accessed the Admin Panel login page.

Basic Path

1. System presents input fields for the login information.
2. User enters the information and click submit button.
3. System validates information.
4. System redirects User to the Admin Panel.

Alternate Path

2a. Invalid input - Blank fields

1. User leaves one or more blank fields.
2. System does not allow the transaction and prints a warning with the missing fields.
3. System enters the correct information.

2b. Invalid input - Incorrect login information

1. User enters a wrong combination of the login information.
2. System validates information.
3. System does not allow the login and prints a warning saying that the information provided is wrong.

Post condition

The User has logged in.

Exception Path

The User may abandon the operation at any time.

Other

The login information includes: Email, password.

2. New user password setup

Use Case Name

New user password setup.

Trigger

The new user receives an e-mail notifying that he/she has been registered as a user and clicks on the provided link to set up his password.

Precondition

One Administrator has successfully created a new user.

Basic Path

1. User clicks the link on the email received and goes to the password setup page.
2. System displays a form with two inputs “New password” and “New password confirmation”.
3. User inserts the new password and re-type that password on a second box.
4. System registers the user password in the database and and redirects user to the login page.

Alternate Path

1a. Expired link

1. User clicks the link after the expiration time.
2. System do not allow the user to proceed and notifies him.

3a. Invalid input - Password mismatch

1. User types a different password on the password re-type box
2. The system shows a warning saying that passwords does not match.
3. System return to the password setup page.

Post condition

The new user can login to the system with his registered password.

Exception Path

The user may abandon the operation at any time.

3. Recover Password

Use Case Name

Recover Password

Trigger

The user selects option in the page /admin which indicates that he/she wants to recover his password.

Precondition

The user has been registered in the database.

Basic Path

1. User clicks "forgot password" link presented by the system in the login page.
2. System sends an email with a temporary link to a password recovery web page.
3. User clicks the link in the received email.
4. System presents input fields for the user's new password.
5. User enters new password.
6. System stores new password.
7. System redirects user to the login page.

Alternate Path

2a. Invalid input - Blank fields

1. User leaves one or more fields blank.
2. System does not allow the transaction and prints a warning with the missing fields.

2b. Invalid Input - Insufficient length

1. User inserts a password with length inferior to 8 characters.
2. System does not allow the transaction and prints a warning.

Post condition

The User has changed his password.

Exception Path

The User may abandon the operation at any time.

4. Edit profile

Use Case Name

Edit profile

Trigger

The user clicks to edit his profile.

Precondition

User is logged in.

Basic Path

1. System shows input fields filled up with the user's stored profile information.
2. User edits the fields that he wants to edit and clicks save button.
3. System stores edited profile information on the database and shows a success notification.

Alternate Path

2a. Invalid input - Blank fields

1. User leaves some required fields blank, such as email, password.
2. System does not allow transaction and prints a warning message with the missing fields.

Post condition

User's profile is edited and still has content for the required fields.

Exception Path

The user may leave the operation before submitting the information.

5. Manage Blog Posts

a. Create

Use Case Name

Create post.

Trigger

The user clicks to add a new post.

Precondition

The user is logged in and is in the Posts Management page.

Basic Path

1. System shows a blank form to be filled with the post content.
2. User fills up the form and clicks publish.
3. System stores the new post's content.

Alternate Path

2a. Invalid input - Blank fields

1. User leaves one or more required fields blank.
2. System does not allow the transaction and prints a warning with the missing fields.

Post condition

The new post has been published.

Exception Path

The user may abandon the process at any time.

Other

b. List

Use Case Name

List posts.

Trigger

The user clicks to list existing posts.

Precondition

The user is logged in and is in the Posts Management page.

Basic Path

1. System gets list of posts from the server.
2. System shows list of posts.

Alternate Path

None.

Post condition

The requested information has been displayed.

Exception Path

The user may abandon the process at any time.

Other

c. Update

User Case Name

Update blog posts.

Trigger

User clicks on an post on the blog posts list.

Precondition

The user is logged in the system and is on the Blog Posts Management Section.

Basic Path

1. System presents a blog posts editor and some fields filled with the selected news information to the user.
2. User edits the blog post.
3. User click on the submit blog post button.
4. System saves changes to the database.

Alternate Path

2a. Invalid Input - Blank field

1. The user click submit the blog post with a blank body or title.
2. System detects blank input field and shows a warning.

Post condition

A new post is updated on the database.

Exception Path

The administrator may abandon the operation at any time before clicking submit.

Other

The post information includes: Title, body and tags.

d. Delete

User Case Name

Delete blog posts.

Trigger

The user clicks on the delete button next a blog post on the news articles list.

Precondition

The user is logged in the system and is on the Blog Posts List Section.

Basic Path

1. User clicks the delete button.
2. System prompts the user about irreversible operation.
3. User confirms blog post deletion.
4. System erases the blog post from the database.

Alternate Path**2a. Cancel deletion**

1. User cancels blog post deletion.
2. System returns to the blog post list page.

Post condition

A new blog post is deleted from the database.

Exception Path

The administrator may abandon the operation at any time before confirming the deletion.

6. Manage News**b. Create****User Case Name**

Create news.

Trigger

The user clicks on the Create News button.

Precondition

The user is logged in the system and is on the News Management Section.

Basic Path

1. System presents a blank news editor and some blank fields to the user.
2. User creates a news article.
3. User click on the submit article button.
4. System saves the news article to the database.

Alternate Path

2a. Invalid Input - Blank News

1. The user click submit the article without typing anything.
2. System detects blank news and discard the article.
3. System warns the user.

Post condition

A new news article is stored on the database.

Exception Path

The user may abandon the operation at any time before clicking submit

Other

The news information includes: Title, body and tags

b. List

User Case Name

List news.

Trigger

The user enters the News Management Section.

Precondition

The user is logged in the system.

Basic Path

1. User clicks the News Managements on the Admin Panel menu.
2. System retrieves articles from the database.
3. System displays the articles titles to the user.

Alternate Path

None

Post condition

The requested information has been displayed.

Exception Path

The administrator may abandon the operation at any time

d. Update

User Case Name

Update news

Trigger

User clicks on an article on the news articles list.

Precondition

The user is logged in the system and is on the News Management Section.

Basic Path

1. System presents a news editor and some fields filled with the selected news information to the user.
2. User edits the article.
3. User click on the submit article button.
4. System saves changes to the database.

Alternate Path

2a. Invalid Input - Blank News

1. The user click submit the article with a blank body.

2. System detects blank news and discard changes.
3. System warns the user.

Post condition

A new news article is updated on the database.

Exception Path

The administrator may abandon the operation at any time before clicking submit.

Other

The news information includes: Title, body and tags.

e. Delete

User Case Name

Delete news.

Trigger

The user clicks on the delete button next an article on the news articles list.

Precondition

The user is logged in the system and is on the News Management Section.

Basic Path

1. System prompts the user about irreversible operation.
2. User confirms article deletion.
3. System erases the article from the database.

Alternate Path

2a. Cancel deletion

1. User cancels article deletion.
2. System returns to the articles list page.

Post condition

A new news article is deleted from the database.

Exception Path

The administrator may abandon the operation at any time before confirming the deletion.

7. Manage Events

a. Create

User Case Name

Create events.

Trigger

The user clicks on the Create Event button.

Precondition

The user is logged in the system and is on the Events Management Section.

Basic Path

1. System presents blank fields to be filled with the event information.
2. User enter event information.
3. User click on the submit button.
4. System saves the event on the database.

Alternate Path

2a. Invalid Input - Blank Fields

1. The user click submit before filling all the required fields.
2. System detects missing information.
3. System do not save the event and warns the user about missing information.

Post condition

A new event is created and stored on the database.

Exception Path

The administrator may abandon the operation at any time before clicking submit.

Other

The news information includes: Name, Description, Date and Location.

b. List

User Case Name

List events

Trigger

The user enters the Event Management Section

Precondition

The user is logged into the system

Basic Path

1. User clicks the Event Management on the system menu
2. System retrieves future events from the database
3. System displays a list with future events

Alternate Path

None

Post condition

The requested information has been displayed.

Exception Path

The administrator may abandon the operation at any time

c. Update

User Case Name

Update events.

Trigger

The user clicks on an event on the future events list.

Precondition

The user is logged in the system and is on the Events Management Section.

Basic Path

1. System presents fields filled with the selected event information to the user.
2. User edits the event.
3. User click on the submit button.
4. System saves changes to the database.

Alternate Path

2a. Invalid Input - Blank Fields

1. The user click submit before filling all the required fields.
2. System detects missing information.
3. System do not save changes and warns the user about missing information.

Post condition

An event is updated on the database.

Exception Path

The administrator may abandon the operation at any time before clicking submit.

Other

The news information includes: Name, Description, Date and Location.

d. Delete

User Case Name

Delete event.

Trigger

The user clicks on the delete button next an event on the future events list.

Precondition

The user is logged in the system and is on the Events Management Section.

Basic Path

1. System prompts the user about irreversible operation.
2. User confirms event deletion.
3. System erases the event from the database.

Alternate Path

2a. Cancel deletion

1. User cancels event deletion.
2. System returns to the future events page.

Post condition

A new news article is deleted from the database.

Exception Path

The administrator may abandon the operation at any time before confirming the deletion.

Admin Panel - Administrator

I. Manage Users

a. Create

Use Case Name

Create User.

Trigger

The Administrator clicks to add a new user.

Precondition

The Administrator is logged in the Admin Panel and is in the Users Management Section.

Basic Path

1. System presents a blank form to be filled with the new user information.
2. Administrator enters the informations and click submit button.
3. System validates information.
4. System generates temporary password.
5. System updates the database.
6. System sends an email to the new user with the login information.

Alternate Path

2a. Invalid input - Blank fields

1. Administrator leaves one or more blank fields.
2. System does not allow the transaction and prints a warning with the missing fields.
3. System enters the correct information.

2b. Invalid input - Existing email

1. Administrator enters a email that already exists in the database and click submit.
2. System does not allow the transaction and prints a warning saying that the email is already in use.

Post condition

The new user has been added to the database.

Exception Path

The administrator may abandon the operation at any time before clicking submit.

Other

The user information includes: First name, last name, email.

b. View

Use Case Name

View User.

Trigger

The Administrator clicks to view the list of users.

Precondition

The Administrator is logged in the Admin Panel and is in the Users Management Section.

Basic Path

1. Systems prints a list of all the registered users.
2. Administrator clicks the view button on the row of the desired user.
3. System shows the user information.

Alternate Path

None.

Post condition

The requested information has been displayed.

Exception Path

The administrator may abandon the operation at any time.

Other

The user information includes: First name, last name, email, phone number, address, picture.

c. Update

Use Case Name

Update User

Trigger

The Administrator clicks to view the list of users.

Precondition

The Administrator is logged in the Admin Panel and is in the Users Management Section.

Basic Path

1. Systems prints a list of all the registered users.
2. Administrator clicks the view button on the row of the desired user to be updated.
3. System shows the user information.
4. Administrator edits the information.
5. System validates information.
6. System updates the database.

Alternate Path

2a. Invalid input - Blank fields

1. Administrator leaves one or more blank fields.
2. System does not allow the transaction and prints a warning with the missing fields.
3. System enters the correct information.

2b. Invalid input - Existing email

1. Administrator enters an email that already exists in the database and click submit.
2. System does not allow the transaction and prints a warning saying that the email is already in use.

Post condition

The new user has been added to the database.

Exception Path

The administrator may abandon the operation at any time before clicking submit.

Other

The user information includes: First name, last name, email.

d. Delete

Use Case Name

Delete User.

Trigger

The Administrator clicks to view the list of users.

Precondition

The Administrator is logged in the Admin Panel and is in the Users Management Section.

Basic Path

1. Systems prints a list of all the registered users.
2. Administrator clicks the view button on the row of the desired user to be deleted.
3. System shows the user information.
4. Administrator clicks the delete button.
5. System shows a confirmation alert.
6. User confirm submission.
7. System removes user from the database.

6a. Cancel operation

1. Administrator clicks the cancel button.
2. System cancels operation.

Post condition

The new user has been added to the database.

Exception Path

The administrator may abandon the operation at any time before clicking submit.

Other

None.

3.3. Security Requirements

- a. The Admin Panel access will require login authentication by user email and password. Each email will be unique, therefore there may not exist two users with the same email.

- b. For the security of the passwords storage on the database, the system will provide Advanced Encryption Standard (AES) encryption.
- c. The system shall not allow access if any or both inputs, namely email and password, are incorrect.
- d. The login session should logout the user in case of inactivity for 30 minutes. If the user comes back to the site within that time period, it is still considered one user session because any number of visits within those 30 minutes will only count as one session. If the user returns to the Admin Panel after the allotted time period has expired, then it is counted as a separate user session.
- e. If the user eventually forgets his password, the system will provide a link for a password recovery. After the input of the user email, if it is registered on the system's database, the system will automatically send an email with a link for password recovery.

3.4. Performance requirements

- a. The website shall be available and accessible to users at all times with the exception of any scheduled maintenance.
- b. The ideal response time of the proposed website shall up to 0.1 second. The acceptable response rate for most user functions on the website shall be between 0.1 to 1 second.
- c. The website shall safely and securely store any user data if applicable.