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CSE 4316: SENIOR DESIGN I
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STAR.JS
STAR SPONSORSHIP WEB-APP

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1 Product Concept

This section outlines the purpose, intended use and audience for the Star Sponsorship Web application. The web application will allow for users to access the donation system, view success stories, access newsletters and blogs, and contact the organization.

1.1 Purpose and Use

The web application will host a variety of features to enhance user experience. The core of the application will revolve around allowing sponsors to use the donation system to donate to the STAR program. Another core function for the application will be the implementation of a system to allow the administrator to edit the contents of the web application. The application will host a platform to detail the success stories of students associated with the STAR program. User authentication will be implemented to allow the availability of features for the administrator. Newsletter/blog upload functionality will be another feature for administrators.

1.2 Intended Audience

The intended audience of this application is divided among a few particular types. Firstly, there are the donors who will be contributing to the STAR program by providing donations to the students. Secondly, there is an administrator who will oversee the donations and edit/update the contents of the website including newsletters and blogs. Lastly, there are users visiting the website to access information, and view blogs and newsletters.

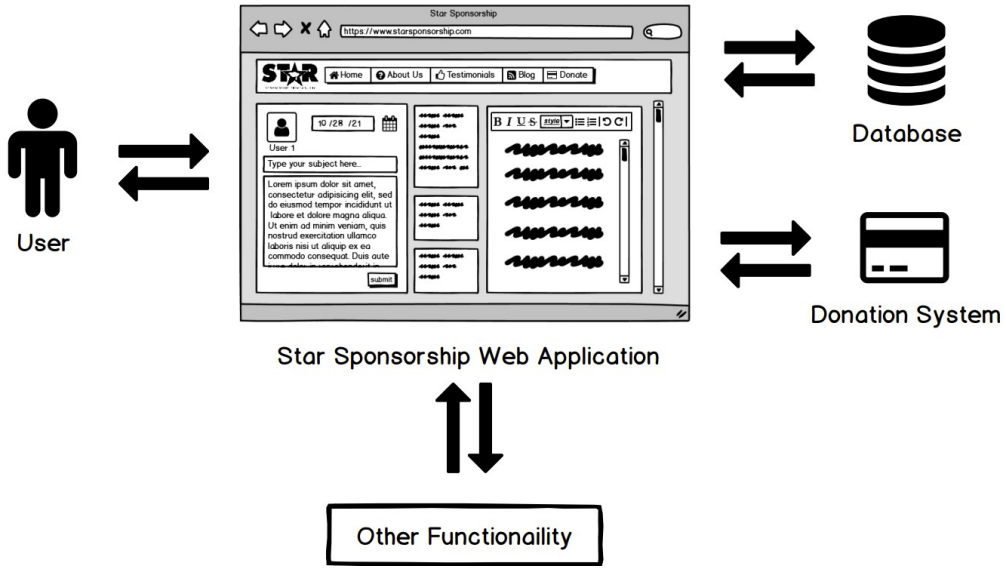

Figure 1: Star Sponsorship Web Application Conceptual Drawing

2 Product Description

This section provides the reader with an overview of core features of the web application. The primary operational aspects of the product, from the perspective of end users, maintainers and administrators, are defined here. The key features and functions found in the product, as well as critical user interactions and user interfaces are described in detail.

2.1 Features & Functions

Please refer to Figure 1 for the conceptual diagram.
Here's the list of core features:

Success Stories:
This feature will be the focal point of the website meaning it could be the biggest factor to encourage new sponsors make the decision to be involved with the organization. "Success stories" will be located in the landing page of the web-app. It will display success stories of the students who've been involved with the organization.

Admin authentication:
System administrator will be able to login using email and password in order to modify and update the contents of the web application.

Donation Portal:
Users visiting the website will have access to the donation portal.

Newsletter and Blog:
Administrator will have the ability to make changes to the newsletter and blog feature. Newsletters will also be forwarded to email of users who have subscribed for it. Blogs will be made available to be viewed on the website.

2.2 External Inputs & Outputs

Donation: Information regarding donation like how often to donate and who to donate to will be received from the sponsor. Also, in order to enter credentials for donation payment, the user will be forwarded to a secure site which will then send back information about whether the user successfully made the payment.

Newsletter Subscription:
Users will be able to sign up for newsletters using their email address.

Sign-in Credentials:
Administrator can log into the web application using their email address and password.

Contact Form:
Users will be able to contact the organization using a Contact Form. The Contact Form will require the user to enter their contact information with the message.

Website Contents:
System administrator will be able to add, modify, and delete the contents of the website such as Blogs and Success Stories. Admin will also be able to upload newsletter on the website.

2.3 PRODUCT INTERFACES

A new user opening the web application for the first time will arrive at the homepage which contains success stories of the students and other organization related information. The user will be able to navigate different pages (Newsletters, Success Stories, Contact and Direction, Blogs, Testimonials, etc.) using the navigation bar. They will be able to make a donation by clicking the "Donate" button. Users will also be able to subscribe to the newsletters using their email address and contact the organization using the contact form.
System administrator will be able login by clicking the "Admin Login" button at the footer which will prompt a login interface. On a successful login, the administrator will be able to modify contents of the website.

Please refer to Figure 1 for the conceptual drawing.

3 Customer Requirements

A web application for STAR Sponsorship Program will be designed with several interactive features. The application will include essential features such as admin authentication, donation portal, newsletter, blog, and success stories.

3.1 Donation Portal

3.1.1 Description

The application shall provide a capability for donors to make secure donations. The donation type can be specified among Scholarship or General Operating Cost. The user shall also be able to choose the donation frequency i.e. One time, Monthly, Yearly, etc.

3.1.2 Source

Sponsor: STAR Sponsorship Program

3.1.3 Constraints

None

3.1.4 Standards

None

3.1.5 Priority

Critical

3.2 Authentication

3.2.1 Description

The application shall authenticate the system administrator.

3.2.2 Source

Sponsor: STAR Sponsorship Program and Development Team

3.2.3 Constraints

None

3.2.4 Standards

None

3.2.5 Priority

Critical

3.3 Newsletters

3.3.1 Description

The application shall allow admin to upload newsletter to be displayed on the website. The newsletter shall be sorted chronologically.

3.3.2 Source

Sponsor: STAR Sponsorship Program

3.3.3 Constraints

None

3.3.4 Standards

None

3.3.5 Priority

High

3.4 Informational Page

3.4.1 Description

The application shall display information about the program. It will include Contacts, Directions, FAQs, and Staff information.

3.4.2 Source

Sponsor: STAR Sponsorship Program

3.4.3 Constraints

None

3.4.4 Standards

None

3.4.5 Priority

High

3.5 Success Stories

3.5.1 Description

Success stories shall be presented in the website which can be updated by the administrator. A few will be selected to be displayed on the homepage and the rest will be available on a different page.

3.5.2 Source

Sponsor: STAR Sponsorship Program

3.5.3 Constraints

None

3.5.4 Standards

None

3.5.5 Priority

High

3.6 Newsletter Subscription

3.6.1 Description

The visitors of the website shall be able to subscribe to the program's newsletter using their email address.

3.6.2 Source

Sponsor: STAR Sponsorship Program

3.6.3 Constraints

None

3.6.4 Standards

None

3.6.5 Priority

High

3.7 Blog

3.7.1 Description

The admin shall be able to create or update blogs on the web application. The blogs will be sorted chronologically.

3.7.2 Source

Sponsor: STAR Sponsorship Program

3.7.3 Constraints

None

3.7.4 Standards

None

3.7.5 Priority

Moderate

3.8 Link to Social Media

3.8.1 Description

The application shall provide links to direct the user to the program's social media handles (Facebook, Instagram, LinkedIn, GuideStar).

3.8.2 Source

Sponsor: STAR Sponsorship Program

3.8.3 Constraints

None

3.8.4 Standards

None

3.8.5 Priority

Moderate

4 Packaging Requirements

This section will consist of requirements that are focused on how the sponsors will receive the control of web application. It will also include the general layout description of the web application.

4.1 Admin Credential

4.1.1 Description

The sponsor shall be provided with login credential of administrator account with privileges to modify and update contents of the web application.

4.1.2 Source

Development Team

4.1.3 Constraints

None

4.1.4 Standards

None

4.1.5 Priority

Critical

4.2 Website Layout

4.2.1 Description

The top of the page shall have navigation links to sections: Donation, Newsletter, Blog, Success Stories, FAQs, and others.

4.2.2 Source

Sponsor: STAR Sponsorship Program, Development Team

4.2.3 Constraints

None

4.2.4 Standards

None

4.2.5 Priority

High

5 Performance Requirements

5.1 Networking optimization

5.1.1 Description

The web application should have a a fast response time and minimal amounts of delay when trying to load new pages.

5.1.2 Source

Development Team

5.1.3 Constraints

None

5.1.4 Standards

None

5.1.5 Priority

Critical

6 Maintenance & Support Requirements

Since the STAR Sponsorship Program team does not have a dedicated IT department, all management tasks will be handled through the administrator account.

6.1 User Manual

6.1.1 Description

The user manual shall be provided to the administrator of the web application. It will have detailed instructions for regular operations.

6.1.2 Source

Development Team

6.1.3 Constraints

None

6.1.4 Standards

None

6.1.5 Priority

Critical

6.2 Admin Privileges

6.2.1 Description

The administrator account shall have privileges to upload newsletters and blogs, add success stories, and modify organization related information.

6.2.2 Source

Development Team

6.2.3 Constraints

None

6.2.4 Standards

None

6.2.5 Priority

High

References