Mobile Application User Guide

South Forsyth High School App – SFHS News

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SOUTH FORSYTH HIGH SCHOOL, CUMMING, GA 30041

Contents

Summary

The mobile app "SFHS News" is available in the Apple Store and is a free download. This app was built by Harish K Kamath under the guidance of Mr.James O'Connor as part of the FBLA mobile competition 2015.

The ***Salient*** features of the app are as follows:

- This is an IOS app and only available in the Apple store
- An application of MySQL, the industry standard for database and information control on the web, into the iOS developing platform.
- No pre-built templates were used in its construction and it was built ground up.
- The app pulls information from a database, hosted by GoDaddy, which can be audited from a built website that is also part of the project.
- The app has the following features
  - Banner on the home page to showcase current events
  - An Event page (Feed) which shows the current events by organization of South Forsyth and its rich and varied extracurricular sports and clubs.
  - A page dedicated for the many clubs and activities that South Forsyth partakes in.
  - A page depicting a simple graphical view of the current SFHS Events.
  - A page showcasing some of the best recent South Forsyth achievements.
  - An Agenda Page which gets built by the user personally selecting "Sign Up" from the Feed page.
  - Social Media Links including Facebook and Twitter for the School and the Clubs are readily available in the School and Club pages.

The content in the mobile app is integrated and fed from a website called www.sfhsnews.com . Drupal – PHP was used to build this website. The menus are driven by webforms which are linked to a MYSQL database hosted with **Go Daddy** platform as a service provider.
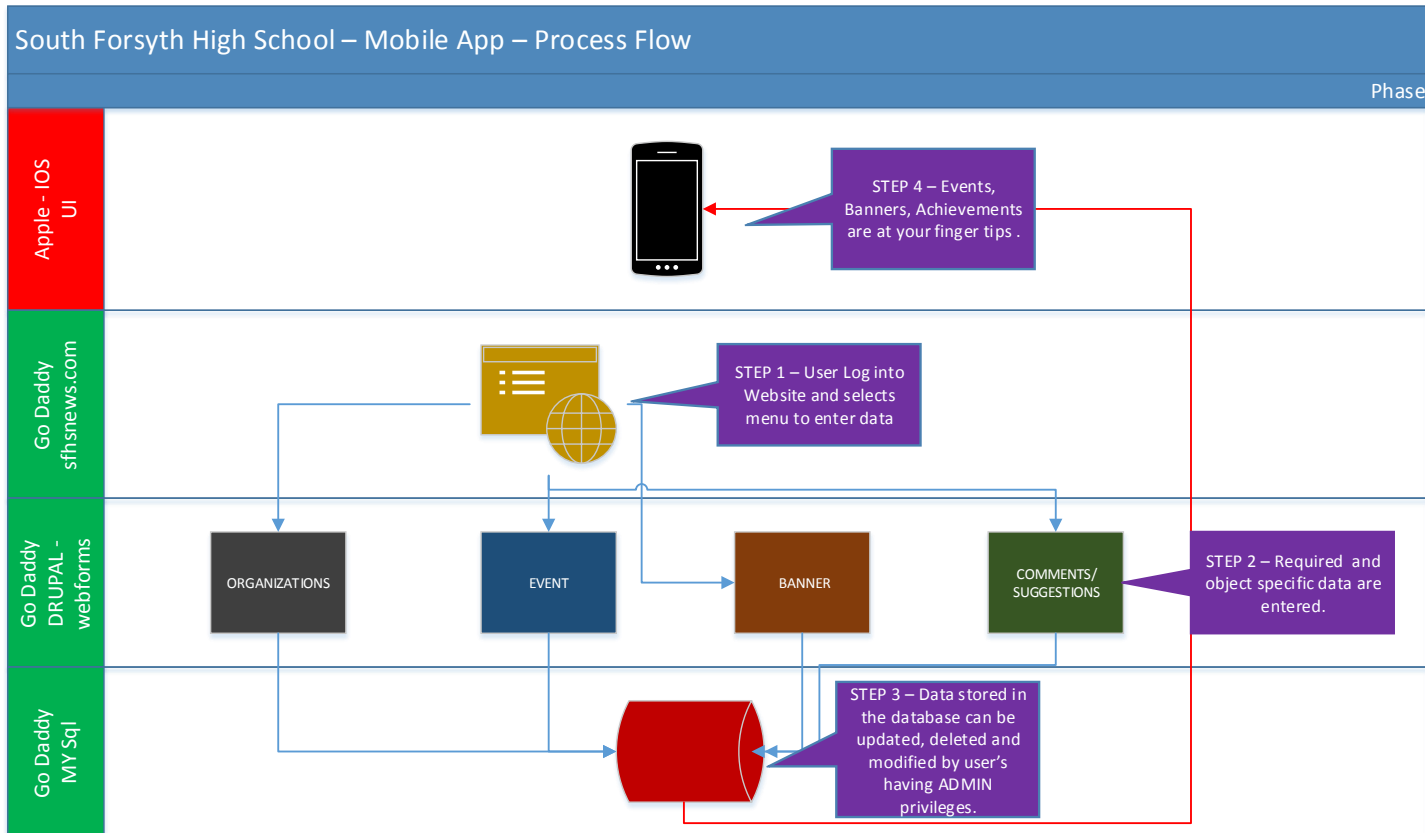
Architecture
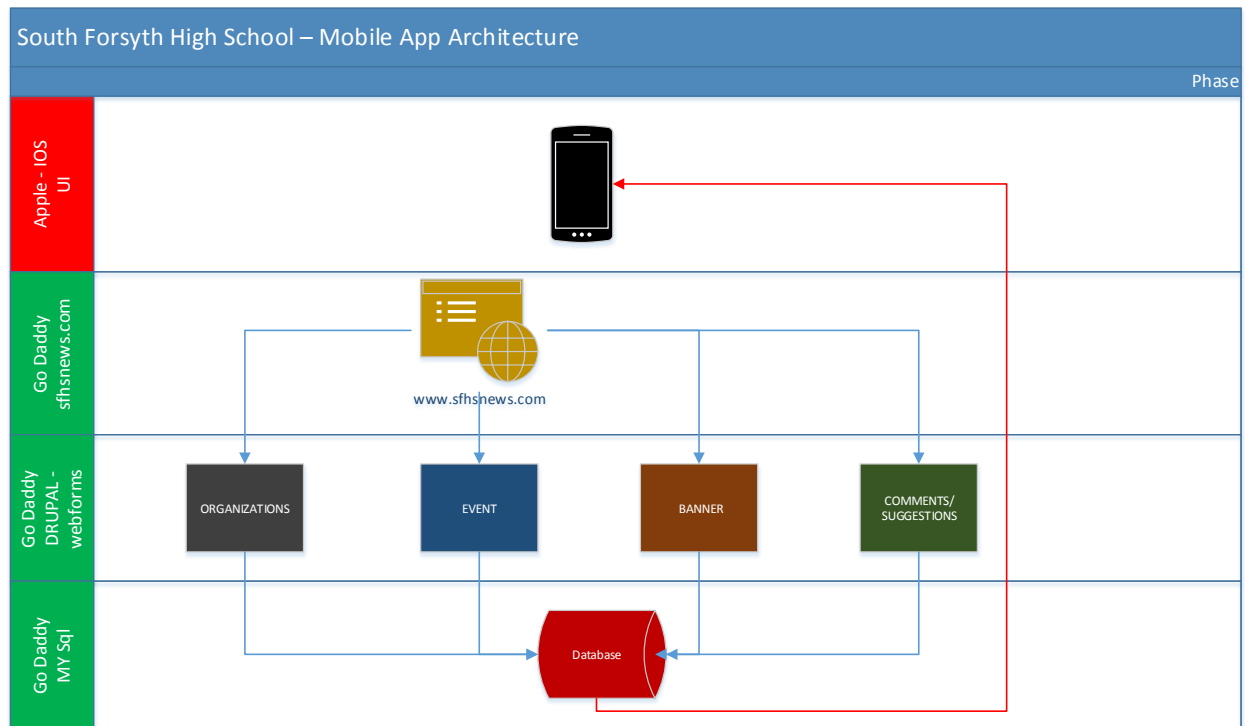
GoDaddy hosts the website www.sfhsnews.com . The website uses Drupal a PHP based platform to create the contents on the website. The contents are built using a module called Webforms provided by Drupal. Webforms is used to build contents by providing direct access to the My Sql database.

The mobile app was written using Xcode and has several pages to display the contents.

Process Flow

South Forsyth High School – Mobile App – Process Flow

Phase

Apple - IOS UI

STEP 4 – Events, Banners, Achievements are at your finger tips .

Go Daddy sfhsnews.com

STEP 1 – User Log into Website and selects menu to enter data

Go Daddy DRUPAL - webforms

ORGANIZATIONS

EVENT

BANNER

COMMENTS/ SUGGESTIONS

STEP 2 – Required and object specific data are entered.

Go Daddy MY Sql

STEP 3 – Data stored in the database can be updated, deleted and modified by user's having ADMIN privileges.

Mobile App -

This application is used as a complete guide for the average person to the recent activities of South Forsyth High School.

The mobile app is aptly named – "SFHS News" and is built on an IOS platform.

You can download it for free by going to your IPhone or IPad's App Store -

The App has been built based on the rubrics as presented by FBLA and is specific to South Forsyth High School. However, in order to also incorporate the true value of a commercial application, there is also a "Comments and Recommendations" page in which a user can identify and post any troubles that they have had with the application. Thus although the app is primarily a FBLA project, it also can fluidly become a synthetic commercial App, which is still evolving and shall be modified and improved based on the feedback we get from the users.

I hope you like it and download it. Please do not forget to go to the Comments and Recommendations section to provide your valuable feedback. This will only help me to make the App even better for you.

SFHS News – Features

"SFHS News" has rich content and is an easy to use app. The App is a handy tool for the students to keep aware with the changes occurring in the school. It is a one stop shop to get the latest events, be it School Activities, Clubs, or even Games. You can easily access the School's or the Club's Facebook and Twitter accounts by accessing the School or the Club's "Learn More" page. Lastly, the contents of the School and the club activities can be easily managed by the School News members or advisors.

"SFHS News" features the following pages and the contents of each page shall be detailed further below:

- Home Page
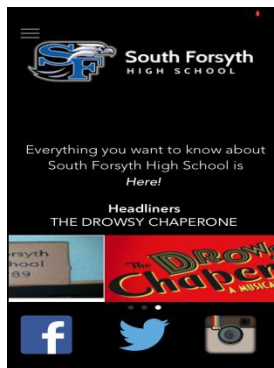
- List View
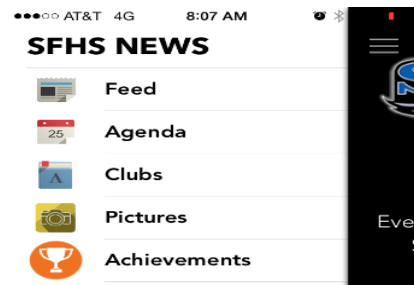
- Feed

- Agenda

- Clubs

- Pictures

- Achievements

HOME PAGE

The home page is the default page that is displayed when the app is opened. The Home Page has a scrolling Banner which displays 3(Three) of the most important events in the school. The Banner details can be changed as often as needed by going the following webpage - BANNER.

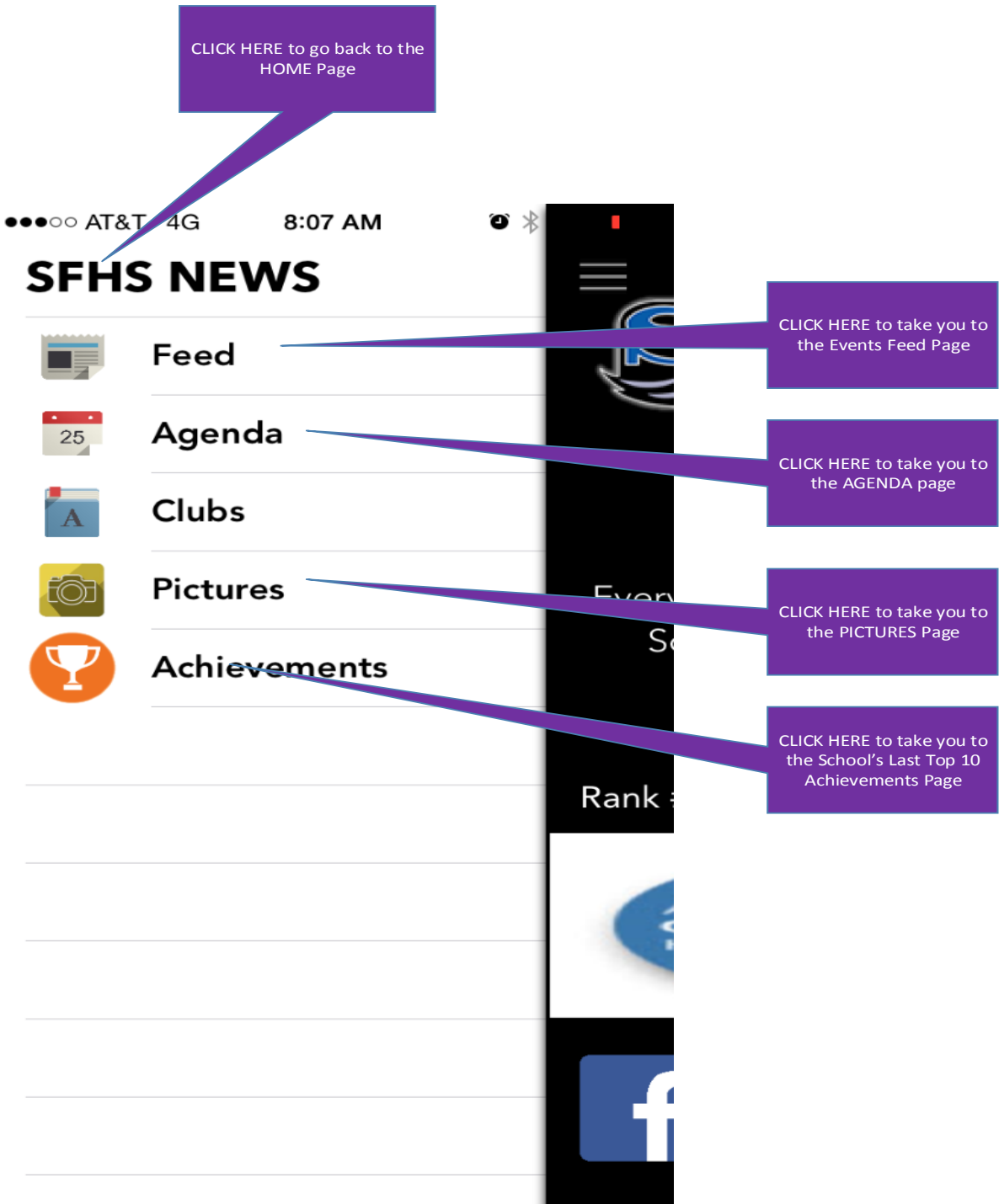The contents of the webpage can only be changed by an authorized person with a login or by the Administrator.

The Home page also has links which directs you to go to the School's Facebook Page, the School's Twitter Page and to the School's Instagram Page. On the Top left corner is the sign to be clicked to open the List View.

CLICK HERE to open the LIST VIEW

SCROLLING BANNER

SOUTH FORSYTH FACEBOOK LINK

SOUTH FORSYTH TWITTER LINK

SOUTH FORSYTH INSTAGRAM LINK

LIST VIEW

The List view is the main navigation page and provides the link to all the content pages.

The picture below shows the details.

CLICK HERE to go back to the HOME Page

●●●○○ AT&T 4G   8:07 AM   ⏰ ✳

SFHS NEWS

Feed

CLICK HERE to take you to the Events Feed Page

Agenda

CLICK HERE to take you to the AGENDA page

Clubs

Pictures

CLICK HERE to take you to the PICTURES Page

Achievements

CLICK HERE to take you to the School's Last Top 10 Achievements Page

Rank

f

FEED

This is the most important page and therefore contains the most contents. The contents in this page are displayed as EVENT feeds. The icon and the name of the event are provided to make it visually easy for the user.

The Events are arranged by date in a descending fashion. Events for the first 7 days are captured under the "This Week's" tab while the "Later" button list Events that are scheduled at a later date.
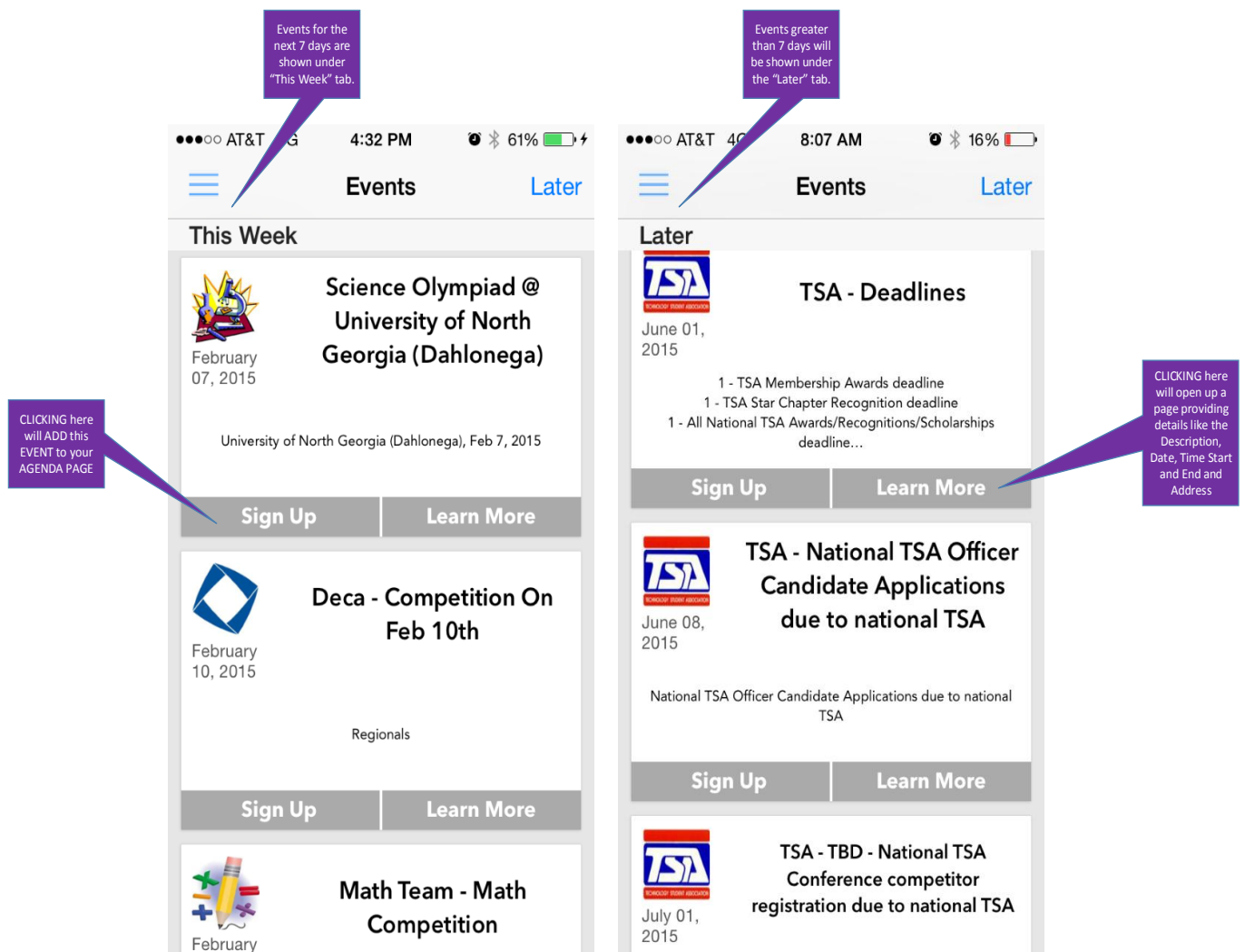
The EVENT details can be changed as often as needed by going the following webpage - EVENTS.

The contents of the webpage can only be changed by an authorized person with a login or by the Administrator.

The Details of the event looks similar to:

●●○○○ AT&T 4G   8:08 AM   ⏰ ✳ 16% ▭

Back   Event

Regional Leadership Conference

FBLA

On
February 19, 2015
From
09:00:00 - 16:00:00
At

2565 Mulberry St, Cumming, GA, 30041
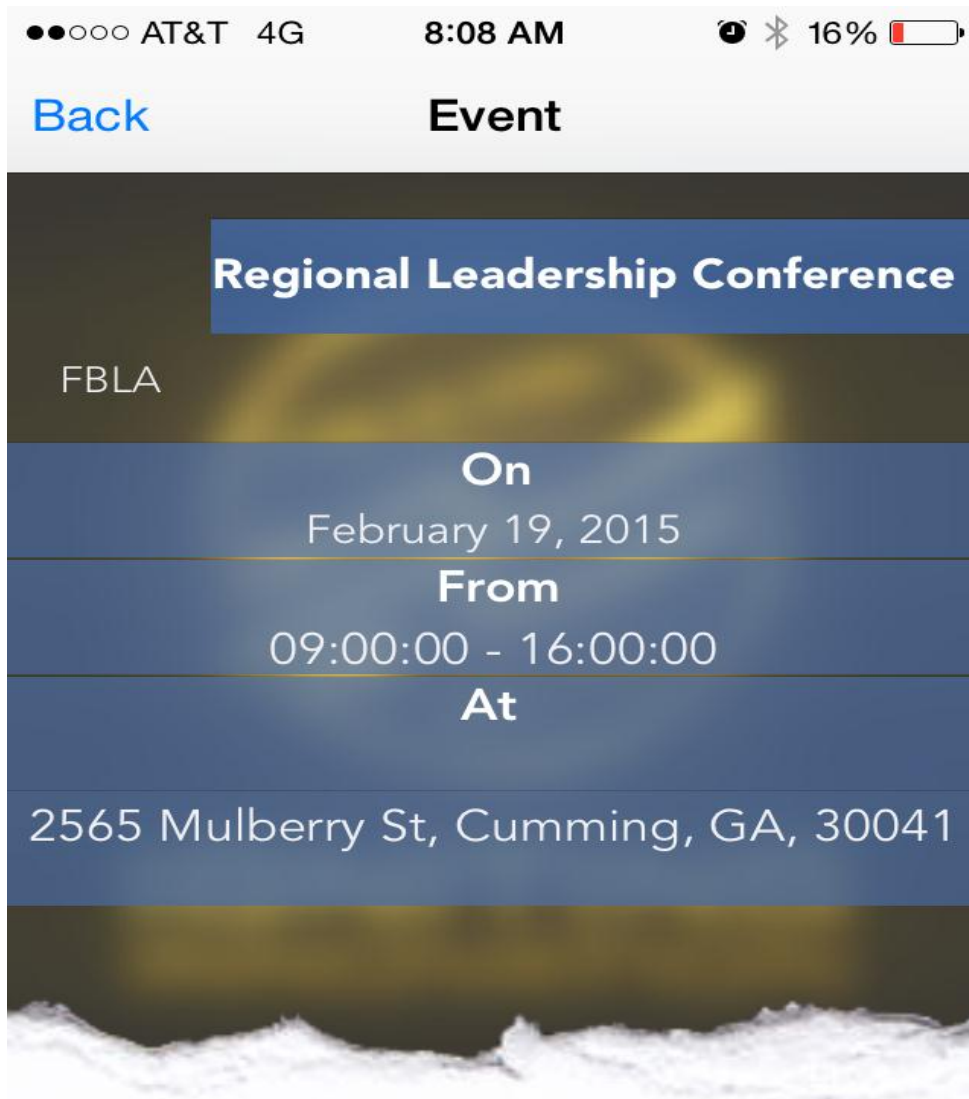
The Regional Leadership Conference is a conference that is held annually in the local chapter region. This Conference decides who progresses to the State level of FBLA competition. Although not all events

AGENDA

This page is normally empty when you open the app for the first time. Whenever you go to the Feed page and "Sign Up" for an event it gets copied and moved to the Agenda page as your personal Agenda. This cool feature shows you only the ones that you would like to sign up or are interested in following. You can remove it from your Agenda page anytime you like.

Signing up from the Feed page shows up here and changes the tab to "Attending"

CLICKING here will open up a page providing details like the Description, Date, Time Start and End and Address
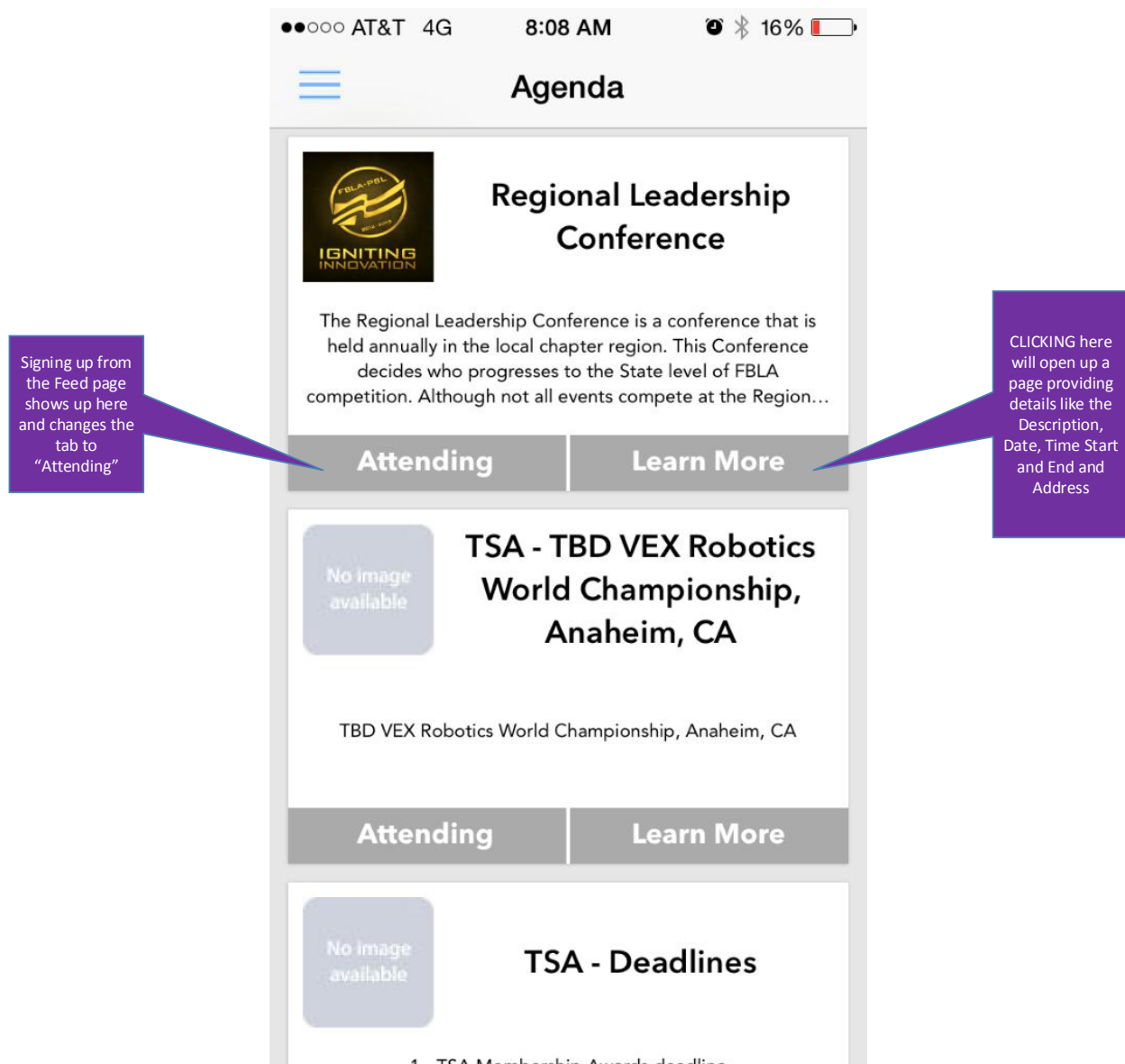
CLUBS

This page displays South Forsyth High's rich School and extra-curricular activity organizations. The extra-curricular activities generally fall under Academic, Honor Societies, Performance Groups, Service and other organizations.

The CLUB details can be changed as often as needed by going the following webpage - CLUB.

The contents of the webpage can only be changed by an authorized person with a login or by the Administrator.

PICTURES

The pictures are the photos taken at some of the events that were concluded. Clicking on the photo enlarges the pictures.
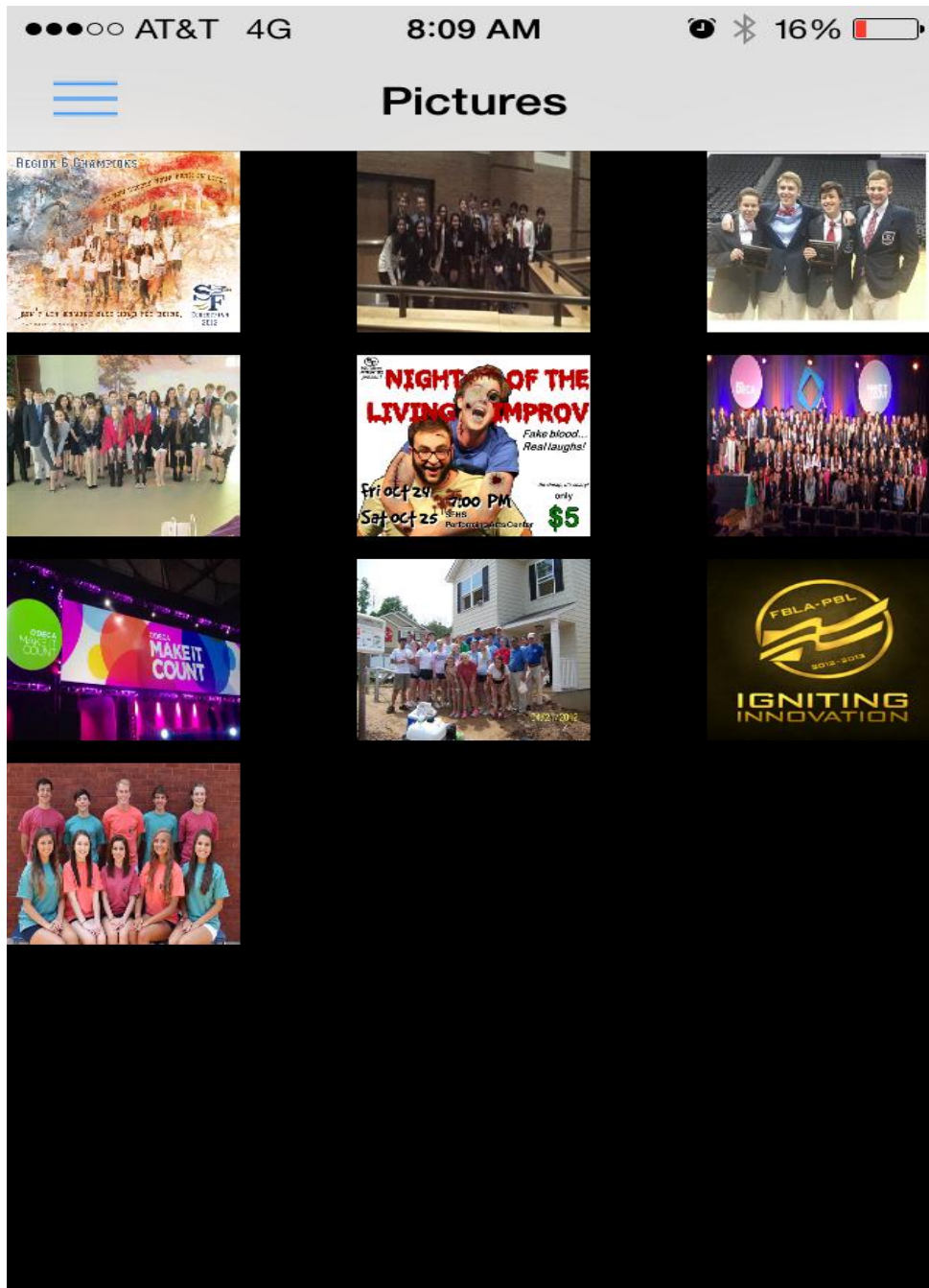
ACHIEVEMENTS

The success stories at the school and the excitement exhibited by the students are fantastic motivators for the student s to excel. The school achievements and the recent awards are captured in this page.

Website - www.sfhsnews.com

The mobile app cannot function as a standalone application. The content in the mobile app changes constantly hence there should be a single place where the content can be loaded and which then gets distributed to the mobile devices, hence the website - www.sfhsnews.com.
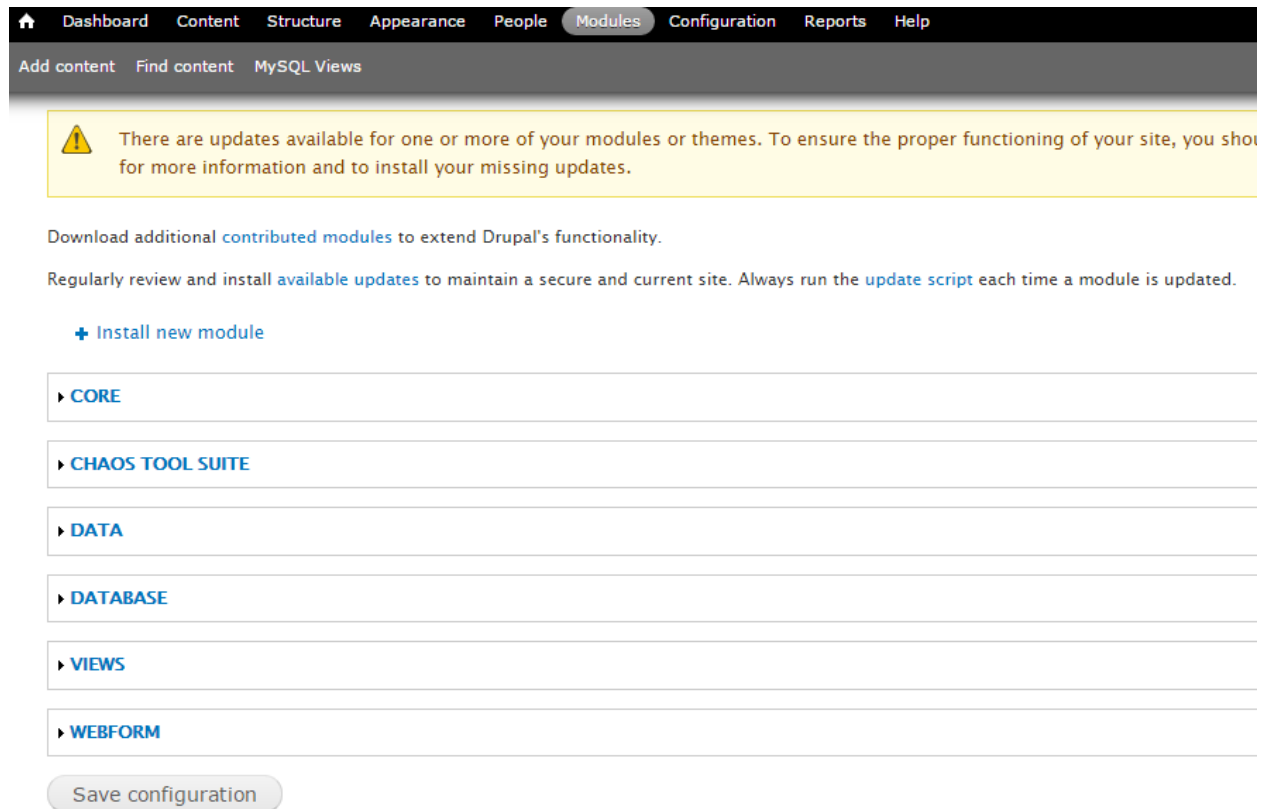
The domain name "sfhsnews.com" was purchased from www.godaddy.com. GoDaddy has capabilities and development tools to host a website which made it easier to create, launch and manage this website.

Drupal – A PHP based application tool was used to build the website and MySQL was used as the residing backend database. PHPMyAdmin is a visual tool available to check out the underlying database schema.

MySQL Database

PHP Admin is a visual representation of the MySQL database

Databases

phpMyAdmin   MySQL®   MySQL®   Remote
                Databases   Database Wizard   MySQL®

Web Applications

Featured Applications

WordPress   Joomla   Drupal   phpBB
blog   portal   cms   forum

DRUPAL – PHP Application
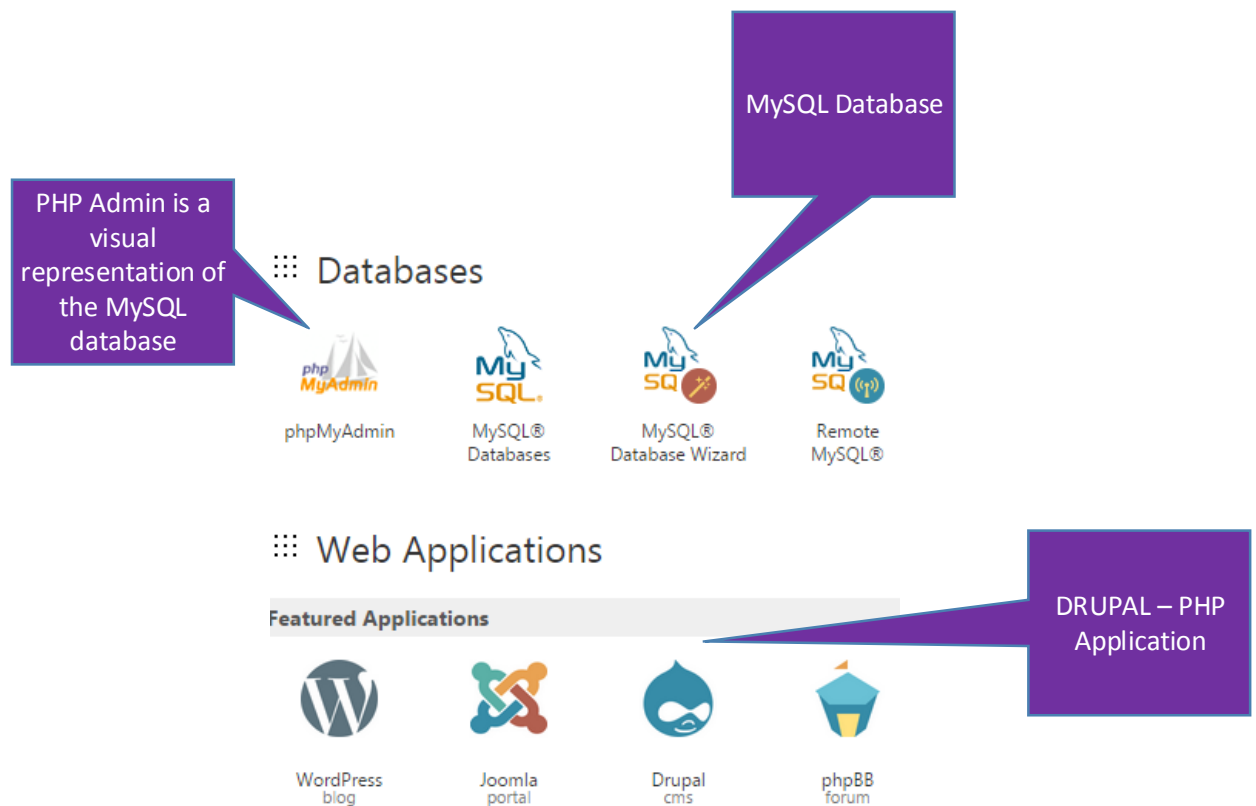
DRUPAL

Within the Drupal application tool the following pre-built Modules were imported, the most important of these modules being Webform and MySQL Views. The UI in the web uses these modules so that users can enter data into these webforms which then gets written into the database in real-time.

ACCESS CONTROL

Not everyone can enter data in the different webforms except for the "Comments and Suggestions" webform. The website needs a login and anyone who needs access should create a "New Account". The Web Admin receives the request for a new account and grants access privileges.

There are two types of access privileges:

Access Type	Access Privileges
NORMAL	A normal access privilege allows the user to access all the webforms – Organizations, Events, Banner and Comment/Suggestions. The User is allowed to enter data on these forms. All registered users are only given this kind of privilege.

ADMINISTRATOR	This privilege has complete access to the website. An administrator can create new webforms, access all the webforms, enter data on the webforms and also edit and delete data.

The website also provides a link for lost Password, via "Request New Password".

NEW ACCOUNT CREATION

The "Create new account" link takes you to the following page which is self-explanatory.

Home » User account

User account

| Create new account | Log in | Request new password |

Username *

Spaces are allowed; punctuation is not allowed except for periods, hyphens, apostrophes, and underscores.

E-mail address *

A valid e-mail address. All e-mails from the system will be sent to this address. The e-mail address is not made public and will only be used if you wish to receive a new password or wish to receive certain news or notifications by e-mail.

Create new account

REQUEST NEW PASSWORD

The "Request New Password" link takes you to the following page where one enters their username or email address and presses the "E-mail new password" button.

Home » User account

User account

| Create new account | Log in | Request new password |

Username or e-mail address *

[   ]

[E-mail new password]

WEBFORMS

The following webforms were created to build content which would be stored in the MySQL database and accessed by the Mobile APP via a PHP integrator.

- ORGANIZATIONS – This webform is used to enter data for the individual organizations in the school.
- EVENT – This webform is used to enter data for upcoming events and is associated to an existing organization registered in the above form.
- BANNER – This webform is used to enter data that shall show up in the scrolling banner displayed on the home page in the app. Only the first 3 items will be shown.
- COMMENTS/SUGGESTIONS – This webform can be used by anyone to provide useful comments and suggestions. Anyone can access and enter data.

ORGANIZATIONS

This is a onetime data entry to register the organization in the database. Organizations can be the School, a Club or Games which are approved by the school and has a school faculty associated with it. Only registered and authorized users can access and enter data on this webform.

The data entered here will be available in the CLUB page in the mobile app.

The following are the data points or fields provided to enter relevant data for the organization:

- Unique Id – As the name suggests a unique ID, which can be any number not already registered in the database. It is used constantly in the application as an index, providing easy programming access to the event/club needed. Each club will receive a unique ID. Events linked to this club should use the club's unique ID as the beginning three digits of its own unique ID.
- Name – The name of the organization is entered here. This is a required field.
- Description – This field is used to provide a brief description about the club, and what activities the members are involved in.
- Advisor – The school faculty who sponsors this organization.
- Meetings – A general description of when and where the club members meet
- Contact – Contact details, which is the email and phone number of the advisor/s.
- Event – A general list of major events that the organization conducts.
- Results – This is used to highlight some of the achievements that the club had made and will get displayed in the **Achievement page** on the app.
- Image Link – This is a SINGLE web link for the club/organization icon only.
- Facebook – The link to the Facebook account of the club/organization is entered in this field.
- Twitter - The link to the twitter account of the club/organization is entered in this field.

CAUTION : Only the administrator can delete or update the contents once the data has been saved in the database.

ORGANIZATIONS

UNIQUEID *

NAME *

DESCRIPTION

ADVISOR

MEETINGS

CONTACT

EVENTS

RESULTS

IMAGELINK

FACEBOOK

TWITTER

Submit

EVENT

The [event](#) webform is used to enter the events associated to the school or a club. It is important to try and fill all the fields in this webform to make it meaningful. Only registered and authorized users can access and enter data on this webform.

Most of the data entered her will appear in the Feed page of the mobile app.

The following are the data points or fields provided to enter relevant data for the organization:

- Unique Id – As the name suggests a unique id which can be any number not already registered in the database. It is exactly alike to the one mentioned above. The first three digits will represent the club to which this event belongs.
- Name - The name of the event is entered here. This is a required field
- Description – The description field is used to enter details about the event.
- Time Start – The Start time of the event
- Time End – The End time of the event
- Date – The date the event is to be held
- Founder – The name of person who enters the data
- Extra Info - Any extra information about the event, which does not describe the event but may otherwise be useful to a user.
- Address – The address of the event
- Image link - This is a SINGLE web link to the event picture and will be displayed in the **Pictures** page of the mobile app. It will also serve as the background of the event's page.
- Club – The name of the club this event is associated with. This is a case-sensitive field and the name should match exactly as it is mentioned in the Organizations tab. This is also a required field.
- Results – The results of this event if this is associated with any competition.

CAUTION: Only the administrator can delete or update the contents once the data has been saved in the database.

EVENT

View | Edit | Webform | Results

UNIQUEID *

NAME *

DESCRIPTION *

TIMESTART

hour ▾ : minute ▾ ⦿ am ○ pm

TIMEEND

hour ▾ : minute ▾ ⦿ am ○ pm

DATE

Month ▾ Day ▾ Year ▾ 🗓

FOUNDER

EXTRAINFO

IMAGELINK

ADDRESS

CLUB *

RESULTS

Submit

BANNER

The banner webpage is used to enter data and an image for the scrolling banner displayed in the home page of the mobile app. Only registered and authorized users can access and enter data on this webform.

The following are the data points or fields provided to enter relevant data for the organization:

- Unique Id – As the name suggests a unique id which can be any number not already registered in the database
- Image Link – This is a required field and requires the URL of the image to be presented in the scrolling banner.
- Image Name – Name of the image with some small details.

CAUTION: Only the administrator can delete or update the contents once the data has been saved in the database.

BANNER

| View | Edit | Webform | Results |

Submitted by Admin on Mon, 01/12/2015 - 18:25

UNIQUEID *

IMAGELINK *

IMAGENAME

Submit

COMMENTS/SUGGESTIONS

This is a webform that is available for anyone to provide feedback on the app.

COMMENTS/SUGGESTIONS

| View | Edit | Webform | Results |

Submitted by Admin on Wed, 01/28/2015 - 21:49

FULL NAME *

EMAIL *

PHONE #

COMMENTS

SUGGESTIONS

Submit