# Mai Tai Fest Voting System



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### **Project Description**

Mai Tai Fest is a charity fundraiser in the Dallas, Texas area, where in, contestants create custom Mai Tai recipes and compete. The guests at the event are given samples of the different recipes and then rate each entry in various categories. I will endeavor to design a system that replaces the paper balloting and tabulating process with a web application that allows the attendees to register, vote, and then allows administrators to publish the calculated results.

#### **User Satisfaction and Testing**

The system will be designed with a key goal being the satisfaction of the users. By replacing the paper balloting system used in the past with a web application, users will enjoy a better experience at the event. The use of the web application eliminates the cumbersome and time consuming process of adding up votes by hand, as well as providing the user with a record of their votes and the winners from past events. As the voting will be done primarily by users on mobile devices, responsive CSS and the mobile interface design will be of great importance. Security of user data will be protected through the use of industry standard SSL encryption. And, all functionality will be tested in advance of the actual event, by beta testing with the several smaller events that lead up to the annual contest.

#### **Proposed Functionalities**

- 1. Admin will be able create events.
- 2. Admin will be able to create categories.
- 3. Admin will be able to create entries on which to vote.
- 4. User will register with the system.
- 5. Admin will be able to "authorize" each user, allowing them to vote, once they have registered with the system.
- 6. Users will be able to select each entry, assign a value (1-10) for every category for that entry, then submit their vote.
- 7. Admin will be able to view all votes cast for each entry.
- 8. Admin will be able to view each entry's placement (after calculations) in each category.
- 9. Admin will be able to select a winner from each category.
- 10. Admin will then be able to publish the list of winners.

### **Requirements Specifications**

**Proposed Functionality:** (1.) Admin will be able create events.

- From the admin homepage, admin will select link for "Edit Events."
- Database will be queried to pull list of existing events, to be inserted into the page as links.
- Admin will be taken to "Edit Events" page, which consists of a list of existing events as links, and a "Create New Event" button.
- Admin will click on "Create New Event" button, taking them to a blank "Event Information" page.
- Admin will fill out fields, which include: Event Name, Event Date, Event Visible (Checkbox), Event Active (checkbox), and Event description. Only Event Name and Event Date will be required. Event Active and Event Visible default to checked.
- Admin will click save button.
- Information will be stored in the database.
- Page will reload with an "event edited successfully" message, and fields populated with the saved data, and the addition of a delete event button.

### **Proposed Functionality:** (2.) Admin will be able to create categories.

- From the admin homepage, admin will select link for "Edit Categories."
- Database will be queried to pull list of existing categories, to be inserted into the page as links.
- Admin will be taken to "Edit Categories" page, which will consist of a list of existing categories as links, a "Create New Category" button, and an "Assign Categories" button.
- Admin will click on "Create New Category" button.
- A blank "Category Information" page will load, consisting of the following fields: Category Name, Category Description, Rating Type. Rating type will be a dropdown giving the options of "1-10 Rating" and "Text Box." Only Category Name and Rating Type will be required.
- Admin will fill out form and hit save button.
- Information will be stored in the database.
- Page will reload with a "category edited successfully" message and fields populated with the saved data.
- Admin will return to "Edit Categories" page, and select "Assign Categories" button.
- Database will be queried to pull list of existing events, to be inserted into the page as links.

- "Assign Categories" page will load, with a message reading, "For which event do you
  want to assign categories?" This will be followed by a list of existing events and their
  descriptions. The names of the events will be links to each event's "Assign Event
  Categories" page.
- Admin will click on one of the events.
- Database will be queried for all categories in the system, and which ones are currently assigned to the event selected.
- "Assign Event Categories" page loads with the name of the event previously selected, and a list of all categories in the system and their descriptions, with checkboxes next to the name of each. Those already assigned to the event will already be checked. All others will be unchecked.
- Admin will check and uncheck categories as desired.
- Admin will click save button.
- Information will be stored in the database.
- Page will reload with a "categories assigned successfully" message, and fields (checkboxes) populated with the saved data.

#### **Proposed Functionality:** (3.) Admin will be able to create entries on which to vote.

- From the admin homepage, admin will select link for "Edit Entries."
- Database will be queried to pull list of events, to be inserted into the page as links.
- Admin will be taken to "Edit Entries" page, which consists of a message reading, "For which event do you want to edit Entries?" This will be followed by a list of existing events and their descriptions. The names of the events will be links to each event's "Entries" page.
- Admin will click on the link for the desired event.
- Database will be queried to pull list of existing entries for the event, to be inserted into the page as links.
- Page will load with a header of "Entries" and the name of the event in question. Below that will be a button for "Create New Entry," followed by a list of current entries, if any.
- Admin will click on "Create New Entry" button.
- "Edit Entry" page will load with the following fields: Entry Name, Entry Description, and Team Members. Only Entry Name will be required.
- Admin will fill out the form and click the save button.
- Information will be stored in the database.
- Page will reload with an "entry edited successfully" message, and fields populated with the saved data.

**Proposed Functionality:** (4.) User will register with the system.

- User will visit the web site.
- User will click on the "Register" button.
- User will fill out the registration form, which will include the following fields: First Name, Last Name, E-mail Address, Password, Confirm Password, Street Address, City, State, Zip Code, Phone Number. Only First Name, Last Name, E-mail Address, Password and Confirm Password will be required.
- User will click on the submit button after filling out the registration form.
- System will validate the input to make sure all the required fields have been populated with appropriate data.
- Information will be stored in the database.
- System will generate a registration e-mail and send to the user at the e-mail address provided.
- Site will prompt user to check their email to complete registration.
- User will click on the "Complete Registration" link in the system-generated email, to verify the validity of the email address.
- User will be taken back to the site, where they are informed registration was successful, and be prompted to log in.

**Proposed Functionality:** (5.) Admin will be able to "authorize" each user, allowing them to vote, once they have registered with the system.

- Admin will select link for "Check in Guests."
- Database will be queried to pull list of active events, to be inserted into the page as links.
- Admin will be taken to "Check in Guests" page with a message of, "For which event do you want to check in guests?" Below that will be a list of active events in the system as links.
- Admin will click on the desired event.
- Database will be queried to pull list of registered users and information, to be inserted into the page.
- Admin will be taken to the "Check in Event Guests" page, populated with a search field, and a paginated list of registered users. Each entry displayed in the list will display the following fields: First Name, Last Name, Email Address, Current Checked In Status, "Check In" button, and "Undo Check In" button.
- If input is entered into the search field, system will run a database query for matches in the first name, last name, and email address fields, then output any matches (with the same fields as the "Check in Event Guests" page) or, return a "no matches found" message.

- Admin will select "Check In" button for the given user.
- The user's database record is altered to authorize the user to vote and a popup message appears with a message confirming the given user has been authorized.

**Proposed Functionality:** (6.) Users will be able to select each entry, assign a value (1-10) for every category for that entry, and then submit their vote.

(Function assumes user is already logged into the system. User will begin on user home page. Links present will be account info, and the different events.)

- User will select the desired event link.
- User will be taken to a page with two links: "My Votes," and "Results."
- User will select "My Votes."
- Database will be queried for list of entries, and to see which entries the user has voted on already.
- User will be taken to a page that lists the different entries for that event, and a field indicating the ones for which the user has already submitted votes.
- User will select an entry.
- Database will be queried for categories, and user's already submitted vote information for the entry.
- User will be taken to the page for that entry, which populates with data pulled from the database about the entry, displaying name, description and team members, as well as the category information to vote on, and a submit button. If the user has already submitted a vote for the entry, previously submitted values are populated. Otherwise, all voting options are set to default values.
- User will adjust values as desired, and hit submit.
- Database records will be updated.
- Page will reload with the previously entered in values, and a "vote submitted successfully" message.
- User will return to "My Votes" page and repeats process for other entries.

**Proposed Functionality:** (7.) Admin will be able to view all votes cast for each entry.

- Admin will select link for "View Results."
- Database will be queried to pull list of events, to be inserted into the page as links.
- Admin will be taken to "View Results" page, which consists of a message reading, "For which event do you want to view results?" This will be followed by a list of events. The names of the events will be links to each event's "Results" page.

- Admin will select the desired event.
- Admin will be taken to the "Event Results" page with two links, "View Results by Entry" and "View Results by Category."
- Admin will select link for "View Results by Entry."
- Database will be queried to pull list of entries for the event, to be inserted into the page as links.
- Admin will be taken to "View Results by Entry" page listing every entry as a link.
- Admin will select an entry.
- Database will be queried for a report of votes submitted for the given entry.
- Page will load and display a report showing user ID instead of names, listing all votes submitted for that entry, as well as the average scored in every category.
- Admin will return to "View Results by Entry" page and repeat the process as desired.

**Proposed Functionality:** (8.) Admin will be able to view each entry's placement (after calculations) in each category.

- Admin will select link for "View Results."
- Database will be queried to pull list of events, to be inserted into the page as links.
- Admin will be taken to "View Results" page, which consists of a message reading, "For which event do you want to view results?" This will be followed by a list of events. The names of the events will be links to each event's "Results" page.
- Admin will select the desired event.
- Admin will be taken to the "Event Results" page with two links, "View Results by Entry" and "View Results by Category."
- Admin will select link for "View Results by Category."
- Database will be queried for a report of each entries average score, in each category.
- Page will load displaying each category name, followed by a listing of each entry, and its' average score in that category, organized by highest average score to lowest.

**Proposed Functionality:** (9.) Admin will be able to select a winner from each category.

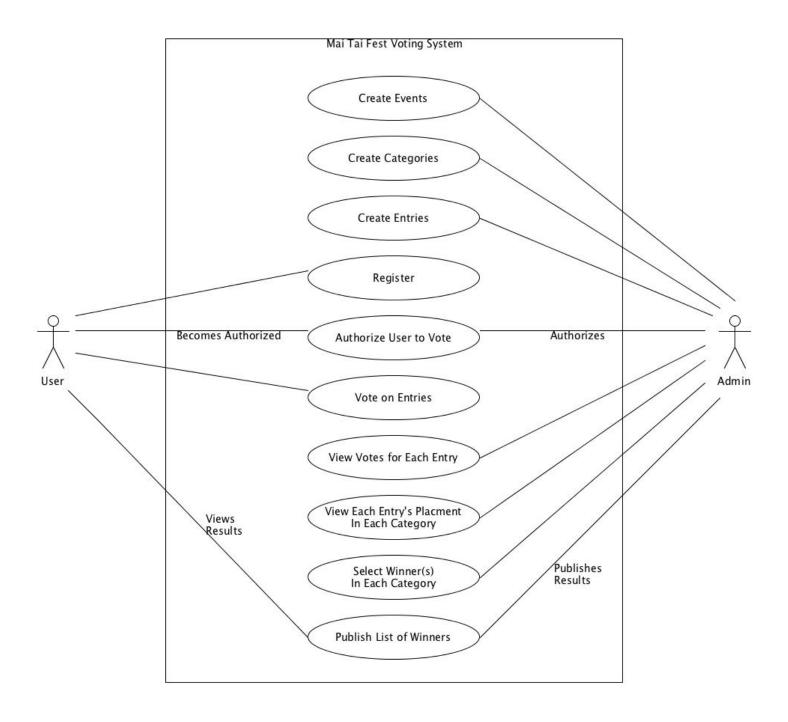
- Admin will select link for "Winners Circle."
- Database will be queried to pull list of events, to be inserted into the page as links.
- Admin will be taken to "Winners Circle" page, which consists of a message reading "please select an event." This will be followed by a list of events. The names of the events will be links to each event's "Winners Circle" page.
- Admin will select the desired event.

- Admin will be taken to the "Event Winners Circle" page, which consists of two links, "Select Winners" and "Publish Winners."
- Admin will select link for "Select Winners."
- Database will be queried for a report of each entry's average score in each category, and checks for currently selected winners.
- Page will load displaying each category name, followed by a listing of each entry, and
  its' average score in that category, organized by highest average score to lowest. Each
  listing will have a check box next to it. Each checkbox will have a default value of
  unchecked. Any previously selected entries in each category will be checked.
- Admin will select winners by checking boxes in each category as desired.
- Admin will hit the save button.
- Database will be updated with the currently selected winners.
- Page will reload with the message "winners updated successfully."

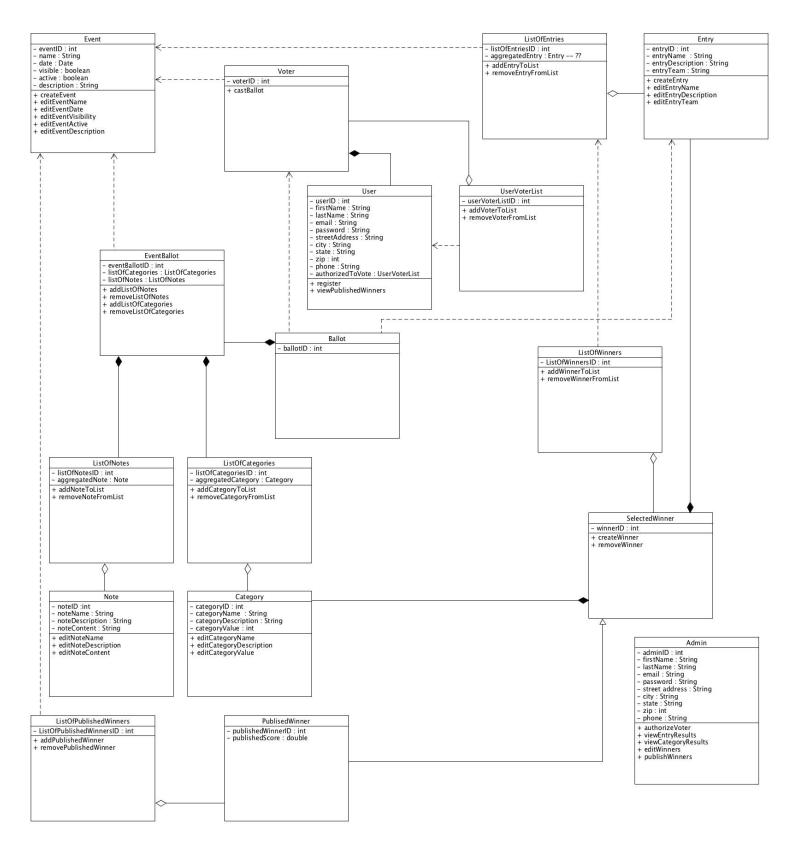
#### **Proposed Functionality:** (10.) Admin will then be able to publish the list of winners.

- Admin will select link for "Winners Circle."
- Database will be queried to pull list of events, to be inserted into the page as links.
- Admin will be taken to "Winners Circle" page, which consists of a message reading, "Please select an event." This will be followed by a list of events. The names of the events will be links to each event's "Winners Circle" page.
- Admin will select the desired event.
- Admin will be taken to the "Event Winners Circle" page, which consists of two links,
   "Select Winners" and "Publish Winners."
- Admin will select link for "Publish Winners."
- Database will be queried for currently selected winners and their average score in the given categories.
- Page will load displaying the data organized by category.
- Admin will push "Publish Winners" button.
- Pop-up will ask them to confirm, "are you sure you want to publish winners at this time?"
- Admin will confirm.
- Database will be updated. Selected winners and their score in the appropriate category will be stored as a "published winners" record, and users will be given access to view via the "Results" page.
- Page will be reloaded with the message, "winners published successfully."

# **Use Case Diagram**

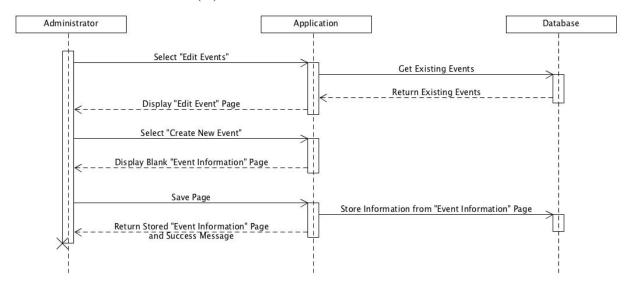


### **Class Diagram**

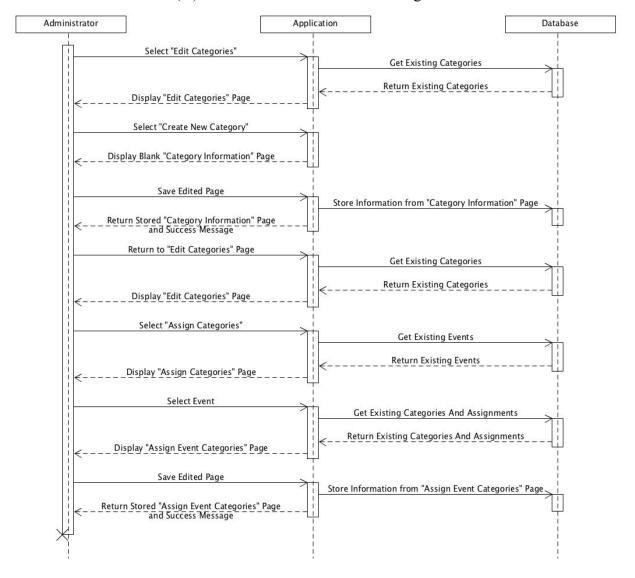


# **Sequence Diagrams**

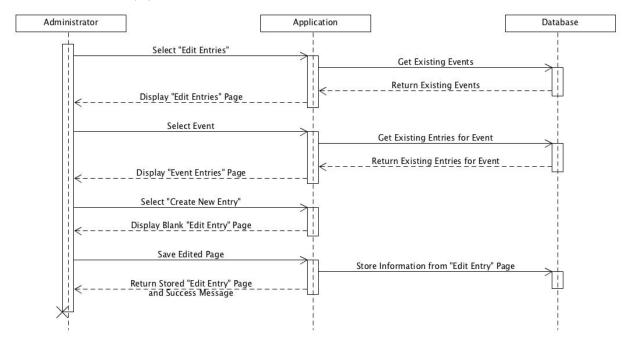
(1.) Admin will be able create events.



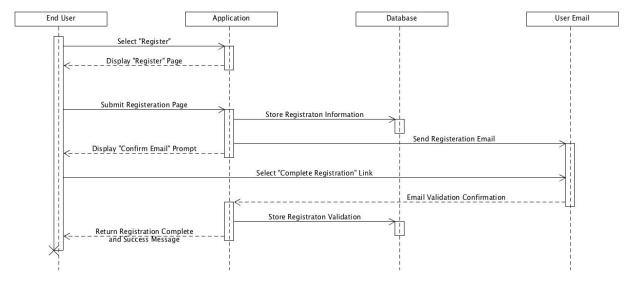
### (2.) Admin will be able to create categories.



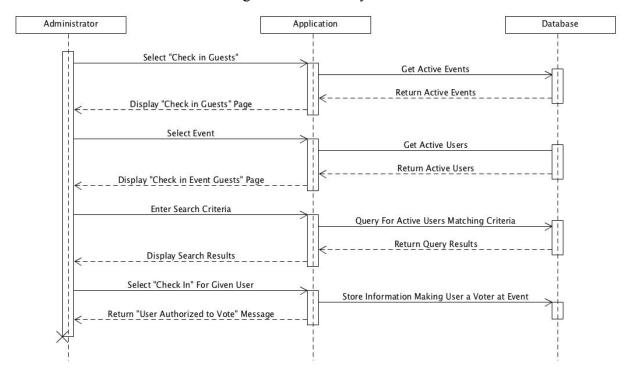
### (3.) Admin will be able to create entries on which to vote.



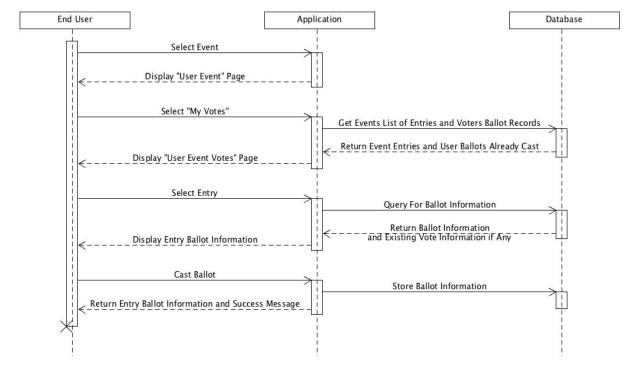
### (4.) User will register with the system.



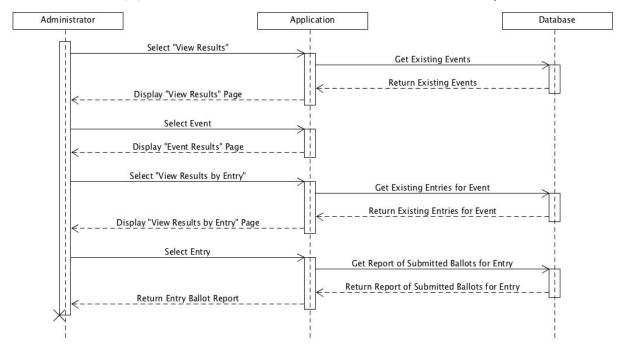
(5.) Admin will be able to "authorize" each user, allowing them to vote, once they have registered with the system.



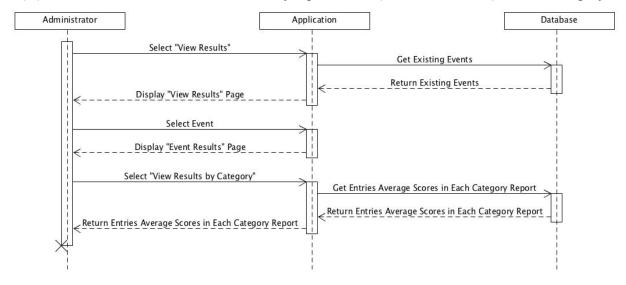
(6.) Users will be able to select each entry, assign a value (1-10) for every category for that entry, then submit their vote.



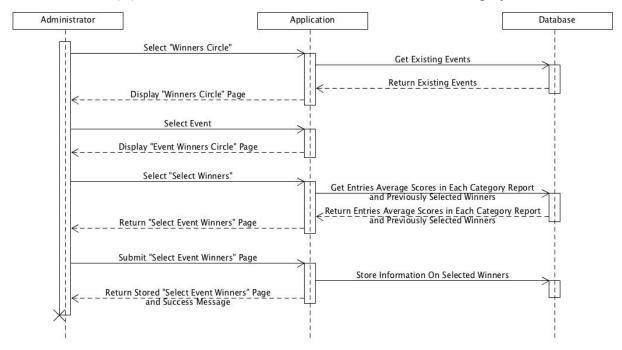
### (7.) Admin will be able to view all votes cast for each entry.



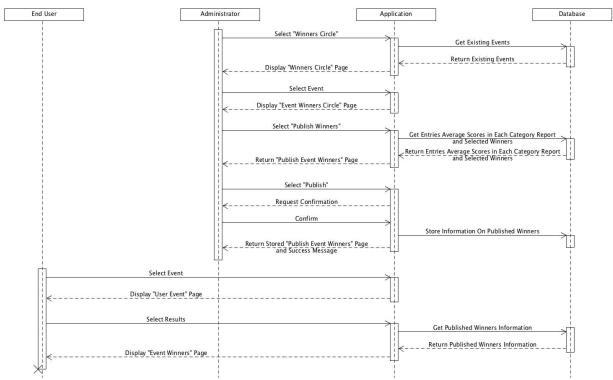
(8.) Admin will be able to view each entry's placement (after calculations) in each category.



### (9.) Admin will be able to select a winner from each category.



### (10.) Admin will then be able to publish the list of winners.



# **Database Design**

Table: Events

organtID (DIZ)	arrant Nama	arrant Data	arrant Vigibility	arrant A atirra	eventDescription
i eveniii (PK)	i eveniivame	i evenii Jaie	i eveni v isibili v	LevenLactive	i evenit jescribiion

Table: Categories

categoryID (PK)	categoryName	categoryDescription
	categor in tarrie	outeger / Bescription

**Table: Event-Categories** 

eventID (FK),	categoryID (FK)
	J

Table: **Notes** 

noteID (PK)	noteName	noteDescription
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**Table: Event-Notes** 

eventID (FK)	noteID (FK)
Overicity (111)	11000115 (1.11)

Table: Entries

	entryID (PK)	entryName	entryDescription	entryTeam
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**Table: Event-Entries** 

eventID (FK)	entryID (FK)
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Table: Users

userID (PK)	firstName	lastName	email	password	streetAddress	city	state	zipCode

phoneNumber	confirmedRegistered
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Table: Voter

voterID (PK)	eventID (FK)	userID (FK)
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Table: Entry-Voter

entryVoter (PK)	voterID (FK)	entryID (FK)
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Table: BallotVote

entryVoter (FK)	categoryID (FK)	voteValue

Table: **BallotNote** 

entryVoter (FK)	noteID (FK)	noteValue

Table: SelectedWinners

eventWinnerID (PK)	eventID (FK)	categoryID (FK)	entryID (FK)
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Table: **PublishedWinners** 

eventWinnerID (FK)	publishedScore
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Table: Admin

adminID (PK) firstName lastName email password streetAdo	dress city state
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zipCode	phoneNumber
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### **Mockups**

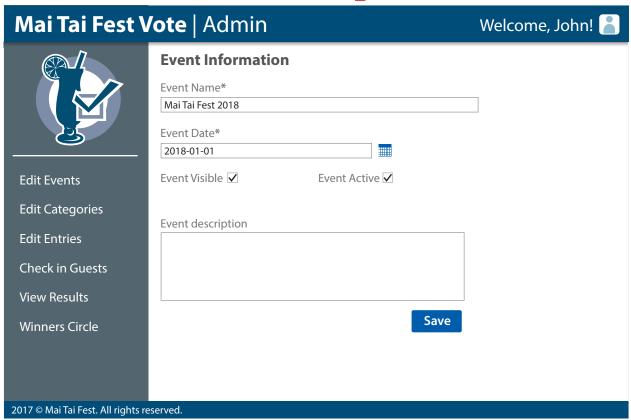


Figure 1 - Event Information page in Admin area. (Desktop View)

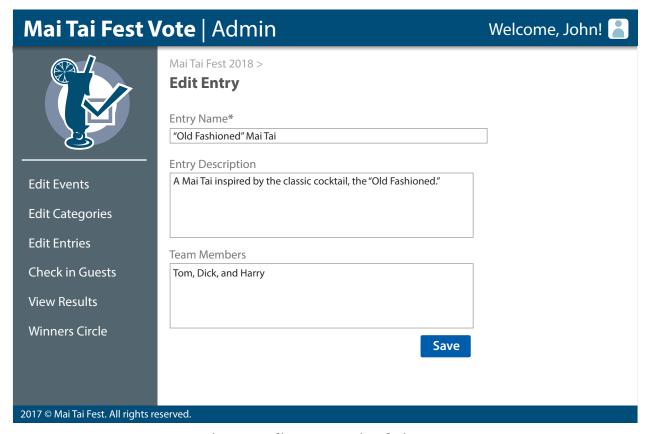


Figure 2 - Edit Entry page in Admin area. (Desktop View)

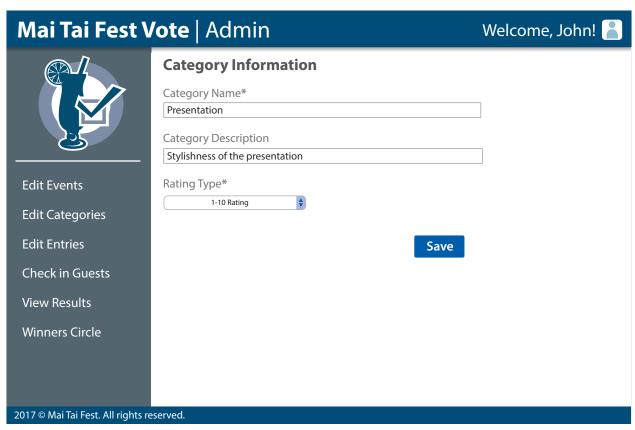


Figure 3 - Category Information page in Admin area. (Desktop View)

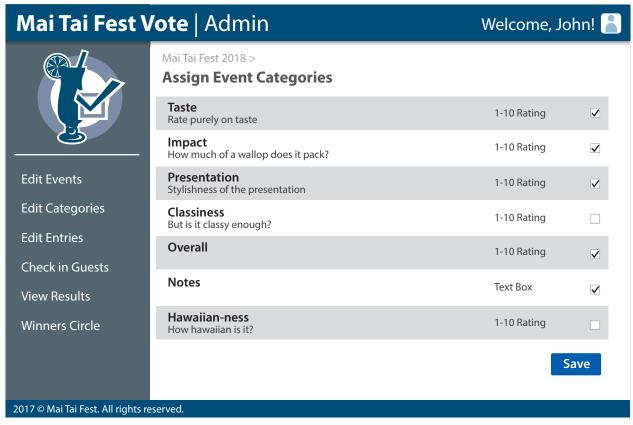


Figure 4 - Assign Event Categories page in Admin area. (Desktop View)



# **Mai Tai Fest Vote New User Registration** First Name\* Last Name\* E-mail Address\* Password\* Confirm Password\* **Street Address** City Zip Code State - Select State -**Phone Number Submit** 2017 © Mai Tai Fest. All rights reserved.

Figure 5 - New User Registration Form. (Mobile View)



Figure 6 - Logged in User Home. (Mobile View)

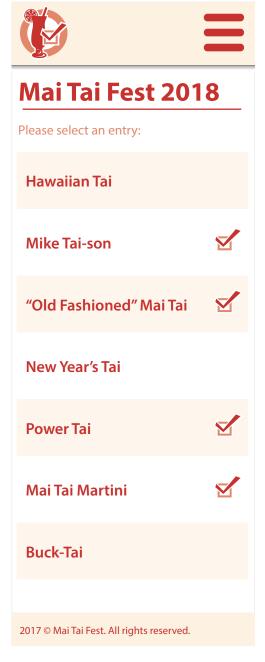


Figure 7 - Event Page for a given User. (Mobile View)



Figure 8 - Ballot Page for an individual entry.
(Mobile View)



Figure 9 - User view of Published Winners. (Mobile View)

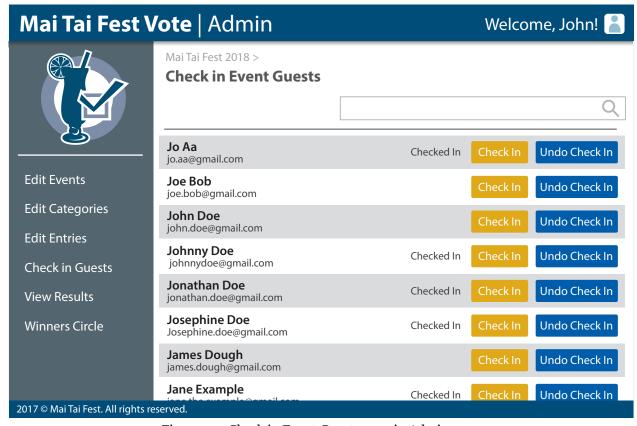


Figure 10 - Check in Event Guests page in Admin area. (Desktop View)

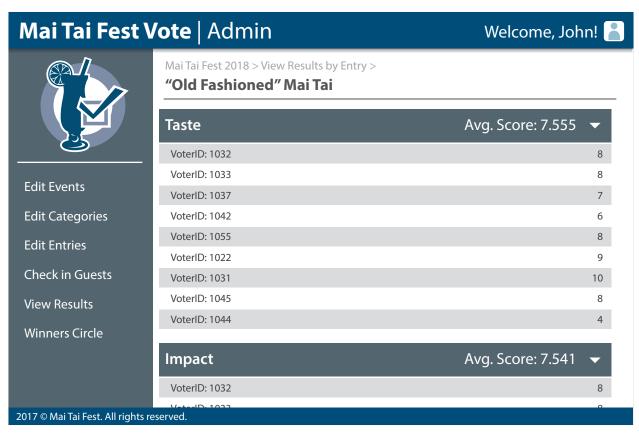


Figure 11 - View Results by Entry page in Admin area. (Desktop View)



Figure 12 - View Results by Category page in Admin area. (Desktop View)



Figure 13 - Select Winners page in Admin area. (Desktop View)

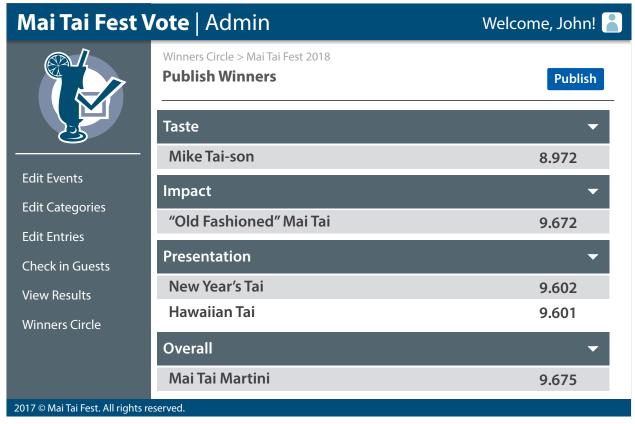


Figure 14 - Publish Winners page in Admin area. (Desktop View)