

ITERATION 3

KY HBPA IT Project



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Use Cases – High Risk

Use Case Specification: Create Account

Brief Description

A user creates an account by providing personal information, an email address, and a password. By doing so this user becomes a member of the KHBPA and gains the benefits of membership (access to members-only features).

Flow of Events

Basic Flow

Actor Action	System Response
User selects join KYHBPA action	System serves create account screen
3. User enters First Name	
4. User enters Last Name	
5. User enters Stable, Corp., or Farm Name	
6. User enters Managing Partner	
7. User enters Address	
8. User enters City	
9. User selects State	
10. User enters Zip Code	
11. User enters Primary Phone Number	
12. User enters E-mail address	
13. User enters Password	
14. User selects best description of themselves from: "Owner", "Trainer", or "Owner & Trainer"	
15. User enters KRS License #	
16. User digitally signs form	
17. User agrees to terms	
18. User clicks "Join Now" button	
	19. System validates user inputs
	20. System stores form values in database

Alternative Flow

System Validation of User Inputs Fails

Actor Action	System Response
18. User clicks "Join Now" button	19. System validates user inputs
	20. System marks fields with invalid
	values
21. User corrects invalid inputs	
22. User clicks "Join Now" button	

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None

Postconditions

Postcondition 1

A user account is created for the supplied e-mail address and password.

Use Case Specification: Create Event

Brief Description

A KHBPA employee or administrator goes to the calendar page and clicks a specific date to add an event. The event takes in an event title, an event description, an event location, a starting time and an ending time for the event.

Flow of Events

Basic Flow

Actor Action	System Response				
Admin goes to the calendar page.	System serves the calendar page.				
3. Admin clicks on a day to create an event.	4. System serves a create event form.				
5. Admin enters the event title.					
6. Admin enters the event description					
7. Admin enters a location for the event.					
8. Admin enters a starting time for the event.					
9. Admin enters an ending time for the event.					
10. Admin clicks submit button.	11. System successfully processes the fields to create an event.				
	12. System adds the event to the calendar.				
	13. System email blasts all subscribers.				

Alternative Flow

First Alternative Flow

The user does not have a value for the event title upon submit. Instead of the system successfully processing the event, the system will return an indicator by the event title field declaring the invalidity of the event

Second Alternative Flow

The user does not have a value for the event description. Instead of the system successfully processing the event, the system will return an indicator by the event description field declaring the invalidity of the event description.

Third Alternative Flow

The user does not have a value for the event starting time. Instead of the system successfully processing the event, the system will return an indicator by the event starting time field declaring the invalidity of the event starting time.

Fourth Alternative Flow

The user does not have a value for the event ending time. Instead of the system successfully processing the event, the system will return an indicator by the event ending time field declaring the invalidity of the event ending time.

Preconditions

Precondition 1

The administrator is logged in already. The website is on a page where the calendar page is readily accessible.

Postconditions

Postcondition 1

The calendar screen and news feed will be updated immediately with the most up to date event information.

Use Case Specification: Search News Archives

Brief Description

A user would like to search through the news archives so they enter a search term into the Search box on the news page and click "Search". The user is presented with all of the news items relevant to their query in a scrollable list.

Flow of Events Basic Flow

Actor Action	System Response
User navigates to news page	System serves news page
3. User enters search terms in search box	
4. User clicks "Search" button	5. System compares search terms to link titles
	6. System compares search terms to post tags
	7. System returns matches
	8. System replaces visible news posts with only posts that match search terms

Alternative Flow First Alternative Flow None

Preconditions

Precondition 1

The user is on a page where the News link is accessible

Precondition 2

At least 1 news item has been posted

Postconditions

Postcondition 1

News posts that match search terms are displayed to the user

Use Case Specification: Upload a Photo

Brief Description

A member would like to upload a KY horse racing related picture to the public gallery. To do so the member selects the picture and uploads it to the server. Once on the server the picture is visible to all KY HBPA admins who can approve it to be posted. Once approved, the picture appears in the gallery.

Flow of Events Basic Flow

Actor Action	System Response
Member navigates to photo gallery	System serves photo gallery
3. Member clicks "Upload photo"	4. System returns photo selector modal
5. User selects photos to be uploaded	
6. User clicks "Upload" button	7. System receives uploaded photos
	8. System stores uploaded photos
	9. System updates "to be approved" queue with photos
	10. System alerts administrators of pending approvals
	11. System returns success message
	12. System redirects user to photo gallery
13. Administrator approves photos	14. System updates gallery with appproved photos

Alternative Flow First Alternative Flow None Preconditions Precondition 1 Member is on a page where the photo gallery link is accessible Precondition 2 Member is signed in Postconditions Postcondition 1

Photo gallery is updated to include uploaded photos

Risk Analysis Revised

This section will review the possible risks and discuss what makes them risks. Each one will either be assigned a high level of risk or a low one, as laid out in the later sections. With our latest update, we have decided to move the "Connect Trainers/Owners" to a low risk item, as we have changed what we envision for it. It will be just a box that you select when filling out a membership form. We have moved "Creating an account" to a higher risk as we have reconsidered the issues and feel that we may have originally oversimplified the process

The high risks are primarily going to be the activities that we believe will be hardest to implement, whether it is because of the level of technology needed, or if we are adding new features that we have only a few examples to draw from. Low risks will be ones that are easier to manage, as we either have plenty of information to draw from, or we actually know how to use and add the feature.

Creating an account, the first use case, will be a high risk item. While we already have a wireframe of membership forms and a general idea of what we want, we may need to add a few fields depending on how much information about the user we want to collect. Making a donation is another low risk item. GoDaddy offers integration with both PayPal and Stripe, our two primary payment methods, as such we see no problems getting a donation page up and running. Creating an event could be a high risk item, we have few interactive calendars to go off of, and if users have problems with it, it may drive some people away from the site.

Posting a news item is a low risk item. Using the Wordpress program that GoDaddy uses, the admin would simply need to log into the site and type up the news, even give it some nice editing, and post it to the site. Searching archived news is a high risk item. First off we will have to create some sort of backlog of news so that the users have something to go back to initially, and then setting up the system to automatically move older news to the archive could prove difficult.

Posting a link follows the same vein as a news item, just adding a link to the main site or whatever page you need it on, making this another low risk item. Submitting a claim online will be a low risk item as well, we have plenty of other sites who have form submitting capabilities, as well as some other forms we can draw from. Uploading a picture may be a high risk item, we will need to find some place for the picture to be stored for easier access to the administrators and a simple form for them to choose what they want to upload.

Creating and voting on polls will be low risk, we plan on also signing up the KHBPA with a SurveyMonkey account. SurveyMonkey will allow them to create and send out polls to any user whose e-mail address

is on file. Admins can also combine it with their GoDaddy site to quickly post links to their site. Requests for certain forms, such as medication, license and bills of sale, would be a low risk item. Either we will have the forms up on the site for downloads, or the request form will go directly to an e-mail account so that it will be a faster process. Signing in will be a low risk item, we will just have the user create an account when actually signing up to join the KHBPA, and we can even have some pages protected by a password, so that only users may access it.

The process of actually seeing their personal profile, as well as editing it, will be low risk as well, simply a user info link at the top of the page should do, allowing them to see and edit the information that the KHBPA has for them. Having an actual calendar on site that the user can see is quite simple. This is a low risk item, as we will need just a calendar outline on the site. The photo gallery is a low risk item, as it will simply be a collage of pictures on its own page, possibly a listing of users who submitted them.

Submitting a benefits form will be a low risk item, we have a wireframe for this form as well, they will just need to click a link and it will take them right to the page they need. Providing feedback was also discussed a lot, we believe it will be a low risk to implement, a simple form with a name, possibly an email address box in case the KHBPA would like to contact the person providing feedback, and a textbox that the user will compose their review. Sending out an email blast is another low risk item to implement. With keeping lists of emails of users, either getting into the database, or potentially signing up for the Email Marketing feature that GoDaddy has, sending out mass emails should be ease.

Posting both trainers and jockeys will be a low item, we want to make sure that this can be a safe, easy way for the two to meet. We envision it to be almost similar to LinkedIn, where a jockey can post their resume, and possibly a listing of races one, horses ridden, and so on. Trainers could list what horses they have, possibly listing notable races that the horses have competed in, where their stables are, and the like. For requesting contact information, it will be low risk, we have a page from the KHBPA that already has the information and just need to give it a more interactive and modern look. Under this, actually contacting them will be a low risk item as well, we would just make their email addresses clickable, and to open up a blank message that they can send to the desired employee.

As for other areas of risk, low risk items will be ones most user friendly, whereas high risk will be the ones the items that require more of a tech savvy user. Using GoDaddy as a host will be low risk, they are quite user friendly and have many videos that give instructions on how one might want to edit their page or how to use all the features that GoDaddy has to offer. To use Access as their primary way of editing the database, it will be high risk at first as Access is not commonly used, but will become low risk as either we work with the people who will edit and use the database, or they learn through other methods such as online tutorials.

These are the risks we have identified in the process of updating the KHBPA site, through the elaboration phase, we plan on looking for more examples of sites that do have these high risk items and seeing just how they implemented them. We will also improve our forms if we find any sort of issue with usage, especially as some of the KHPBA users are not quite as tech savvy as others. We will be discussing with the KHBPA and seeing what features they do like, and being open to suggested changes as well as frequent updates to let them know the progress we have made.

System Requirements

Functional Requirements

- 1. The website will process transactions electronically.
- 2. The website will be able keep track of members through a back-end database.
- 3. The website will be able to associate documentation and reports with users in the database.
- 4. The website will allow users to contact the KHBPA through email.
- 5. The website will contact users when they need to be contacted, such as when a report request has been filled.
- 6. The website will be directly integrated with the KHBPA social media accounts.
- 7. The website will allow users to make donations to KHBPA
- 8. The system will keep track of and allow for management of a calendar of events
- 9. The system will support management of news items
- 10. The system will keep a database of links to outside pages
- 11. The system will support storing and managing submitted claims
- 12. The system will store photos and videos
- 13. The system will track admin-created polls and support embedding them
- 14. The system will store and allow downloading of medication information documentation
- 15. The system will store and allow downloading of a license form
- 16. The system will store and allow downloading of a bill of sale form
- 17. The system will support online benefits form submission and store related data
- 18. The system will allow users to provide feedback through a question form with a free text input
- 19. The system will allow users to publicly advertise that they are potential owners or trainers
- 20. The system will store and report contact info for the board of directors
- 21. The system will allow users to search through an archive of news posts

Non-Functional Requirements

- 1. The website content will be easily editable by employees of KHBPA.
- 2. The website will be visually distinct from similar organizations.

^{*}Use the "System Req. ID" column in the trace matrix on the next page to map the high risk uses cases to the system requirements above.

Trace Matrix

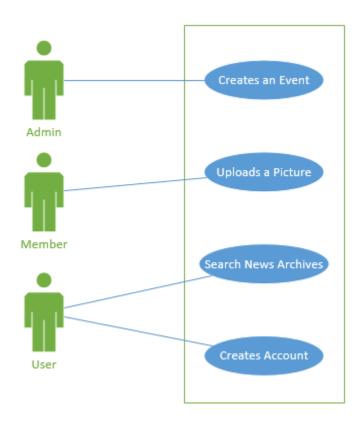
Name	Actor	Description	System Req. Num.
Creates account	User	A user creates an account by providing personal information, an email address, and a password. By doing so this user becomes a member of the KHBPA and gains the benefits of membership (access to members-only features).	2
Creates an event	Admin	An administrator would like to add an event to the event calendar so they choose a name for their event, a description, and a date and time. Once this information is submitted, the event is added to the public calendar for all users to see.	8
Uploads a picture	Member	A member would like to upload a KY horse racing related picture to the public gallery. To do so the member selects the picture and uploads it to the server. Once on the server the picture is visible to all KY HBPA admins who can approve it to be posted. Once approved, the picture appears in the gallery.	12
Search News Archives	User	A user would like to search through the news archives so they enter a search term into the Search box on the news page and click "Search". The user is presented with all of the news items relevant to their query in a scrollable list.	21

Use Case Diagram

Description

The use case diagram is simply a visual representation of who is responsible for starting the use cases. In this simplified use case diagram, it displays only the use cases we considered 'high-risk'.

Diagram



Gantt Chart

Narrative

This Gantt Chart has been organized in chronological order of task assignments for each class deadline and the times we began the tasks and had them done by. Everyone in the group Serious Business was given their fair share of use cases and other deliverables to make this portion of the project successful, and organizing meeting times and spare time to work on these certain tasks was not a problem during this phase. We hope that we can keep our desired schedule the way it is leading up to the presentation date, and hope that our new ideas are worth implementing to the Kentucky HBPA.

Chart

		Task	Task	27-					
ID	Tasks	Resposibility	Dependencies	Feb	1-Mar	2-Mar	3-Mar	5-Mar	6-Mar
	Iteration 3	_							
1	Use Case: Creates account	Alex	(N/A)						
2	Use Case: Makes a donation	Alex	(N/A)				Ī		
3	Use Case: Creates an event	Joe	(N/A)						
4	Use Case: Posts news item	Alex	(N/A)				1		
5	Use Case: Posts a link	Evan	(N/A)						
6	Use Case: Submits a claim	Evan	(N/A)						
7	Use Case: Uploads a picture	Evan	(N/A)					Ī	
8	Use Case: Creates a poll	Evan	(N/A)						
9	Use Case: Votes on a poll	Evan	(N/A)						•
10	Use Case: Requests medication info	Evan	(N/A)						
11	Use Case: Requests license form	Kimberly	(N/A)						
12	Use Case: Requests bill of sale	Kimberly	(N/A)						
13	Use Case: Requests a report	Evan	(N/A)	·					
14	Use Case: Sign in	Alex	(N/A)				•		
15	Use Case: Requests profile info	Alex	(N/A)						
16	Use Case: Edits profile info	Alex	(N/A)						
	Use Case: Requests calendar of								
17	events	Kimberly	(N/A)						
18	Use Case: Requests photo gallery	Kimberly	(N/A)						
19	Use Case: Submits benefits form	Alex	(N/A)	Ī		Ī			
20	Use Case: Provides feedback	Joe	(N/A)						
21	Use Case: Sends email blast	Joe	(N/A)						
22	Use Case: Posts potential owner	Joe	(N/A)				1		
23	Use Case: Posts potential trainer	Joe	(N/A)						
24	Use Case: Requests contact info	Joe	(N/A)					Ī	
25	Use Case: Sends message to KHBPA	Joe	(N/A)						
26	Cantt Chart	Kimah arlu	inception						
26	Gantt Chart	Kimberly	spec						
27	Use Case Prototypes	Alex	use cases						
28	Use Case Diagram	Joe	use cases						
29	Creating Presentation	Kimberly	iteration 3						

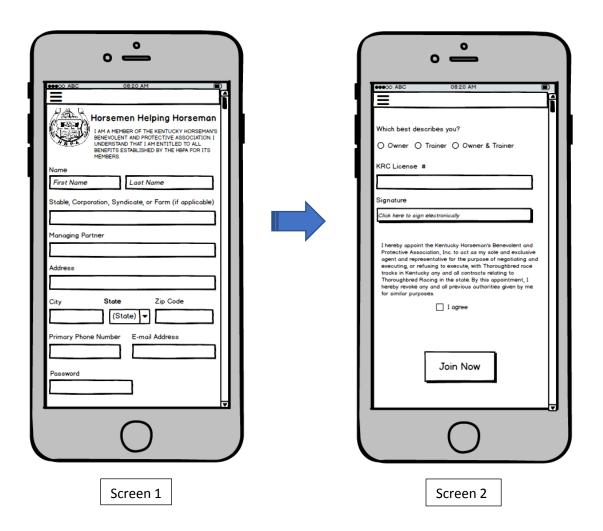
Use Case Prototypes

Use Case Prototype: Create Account

Pictured below you'll find a prototype of a member account creation form. As the user scrolls down they will progress from screen 1 to screen 2. The information gathered by the form mirrors the existing member sign-up form with 1 difference, the new form expects the user to choose a password. This new form will serve 2 purposes: it will officially establish a person as a new member, and at the same time create an account for them on the website. Each time they visit the website they may choose to log in to take advantage of some members only features (submitting forms, requesting reports, etc.)

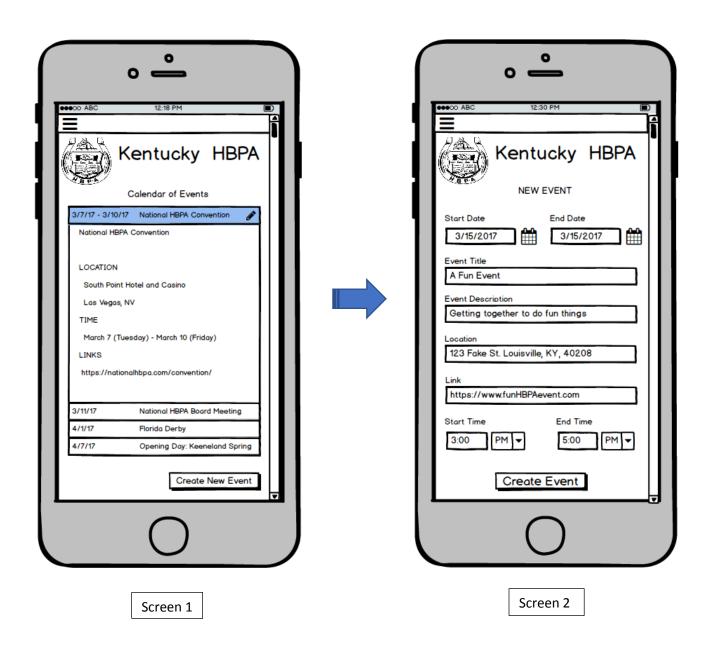
Once submitted this form will create an official member record in the database which you can read from.

Your reports of members would then be designed to read directly from the database and could therefore be accessible from anywhere at any time.



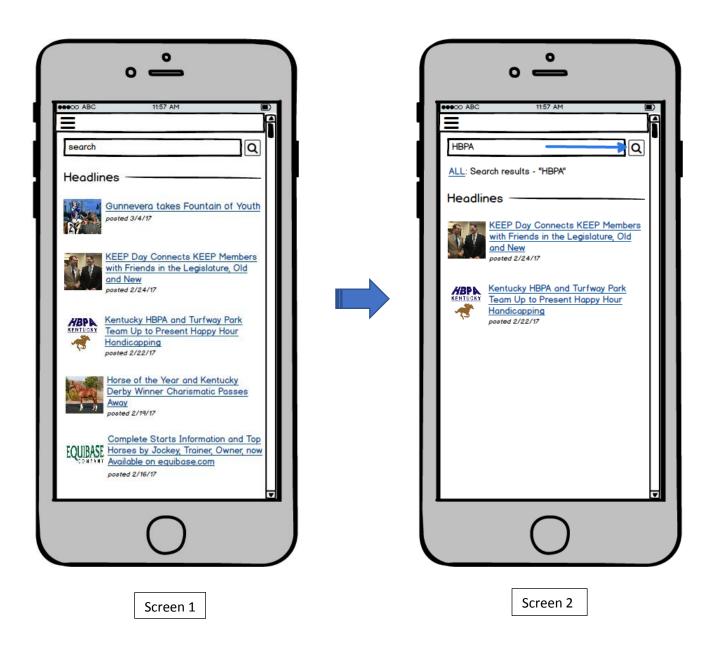
Use Case Prototype: Create an Event

Pictured below you'll find a prototype of the event creation process. When the administrator clicks the "Create New Event" button they'll progress to Screen 2. This button will only be visible to administrators, regular members will see only the calendar. Screen 1 shows the current list of events. Each event, when clicked, will expand to show event details. Clicking an event will reveal a pencil icon button to administrators which allows event details to be edited. Screen 2 shows the form used to create a new event. Once an administrator enters the event details and clicks Create Event, the website will navigate back to Screen 1 and the new event will appear in the list sorted by Start Date.



Use Case Prototype: Search News Archives

Pictured below you'll find a prototype of the news archives search process. From the headlines or news section a user will have the option of typing search terms into the box labeled "search" just above the headlines. Once search terms are entered, clicking the magnifying glass button or pressing enter will filter the headlines in place to show only headlines related to the search terms. In the examples below we see that the user has searched for links related to "HBPA". The news items shown in screen 2 either have HBPA in the title, or were tagged as related to HBPA when they were originally submitted. Clicking the "ALL" link will unfilter the results in place and show all headlines.



Use Case Prototype: Upload a Photo

Pictured below you'll find a prototype of the photo upload process (the process that gets photos added to the gallery). From the gallery page KY HBPA members would have the option of uploading a photo by clicking the "Upload Photo" button. Doing so will take them to Screen 2 below where they'll be able to select photos from their device. Once finished with selections, clicking the "Upload" button will submit the photos for approval. At the point the member must wait for their photos to be approved by a KY HBPA administrator through Screen 3. Screen 3 is showing a queue of all of the photos users have submitted for approval. By clicking a checkbox next to each photo and clicking the "Approve Selected" button, administrators can add the selected photos to the gallery.

