



# Grass Treatment

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## **1. The Purpose of the Project**

This section discusses the background of the Grass Treatment crew, and the goals the group and the developers wish to achieve with a new and helpful website. It will show the purpose of the project to both improve Grass Treatments popularity and sales.

### **1a. The User Business or Background of the Project Effort**

We will create a website for the break dancing group, Grass Treatment, to help increase popularity and sales. The client, Emily Stone, currently only sells dancing video albums, tickets to performances, merchandise, and private performance services. The user intends to organize, maintain, and display a variety of information like Dancing Video Albums, Tour Schedules, Private Performances, News, Group Members, Media and a forum space for fans to talk with each other.

The demand for Grass Treatment has become too much for Emily and her crew to handle on their own, they need a central place for purchases and announcements to be made. Emily and her right hand dancer Natalie Smith, have been a part of Grass treatment since its inception in 2014, they have put their heart and soul into this dance group and wish to share their dancing with as many people as they can. They need our help in order to create this system for more outreach for fans to come together and appreciate everything that is Grass Treatment.

### **1b. Goals of the Project**

Purpose 1: To Increase popularity and sales of Grass Treatment-related items.

Advantage: Bring all the information regarding Grass Treatment into one place, and allow easy access to fans and other users.

Measurement: At least a 40% percentage increase in sales, active users, and unique visitors to the website

Purpose 2 To have a central place for the fans of Grass Treatment to connect and share with each other.

Advantage: Many fans concentrated into one place makes it easier for announcements and news.

Measurement: Total and active users registered on the forum.

## **2. The Stakeholders**

This section of the document shows who the stakeholders in the development of this software. The Stakeholders include those that will have some amount of influence or input into the final product which includes the client Emily Stone and the customer, Grass treatment themselves. This also includes the administrator and the event manager, who will provide integral information regarding the website. These stakeholders will give integral information to the formation, and maintenance of the product.

### **2a. The Client**

The client of this project is Emily Stone, owner, and founder of Grass Treatment. She founded Grass Treatment in 2014 and has been producing and starring in shows since the groups inception. She is responsible for most of the new members and is a mentor to all of them. When it was just her and a few

others, when Grass Treatment was only an idea; she could only dream of the magnitude to which Grass Treatment grew. Now, she has many members and people on the waitlist to even audition for the group.

Natalie Smith was the first recruit and is Emily's right-hand dancer, she will have a great insight into all the activities of Grass Treatment and very valuable to the developers for any additional information regarding Grass Treatment that is needed. Emily and Natalie's full-time jobs are maintaining and performing with Grass Treatment. So when it became too much to both dance full time and sell all Grass Treatments tickets and merchandise, it was recognized that a central place was needed for all their talent, tickets and merch.

Other additional stakeholders include John Gilmore, site administrator, Janine Sewell, Grass Treatment's event planner, and other Grass Treatment performers, Mary White, Tina Gonzalez, and Tiffany Theodore.

## 2b. The Customer

The customer of this project is the Grass Treatment break, dancing group. This project will only be sold to Grass Treatment, as it will be centralized on the group themselves and will only apply to them. The website will show the authenticity and originality of the group, through their videos, albums, and shows. After constructing the website, Emily Stone hopes that Grass Treatments fan base increases and accessibility for news and other information for current fans becomes much more obtainable.

This project also could be sold to any adjacent breakdancing groups to Grass Treatment. If Emily and the crew were to decide to start another crew this project could be sold and applied to them. Likewise, the website could be sold as a form of template for other breakdancing group's to build their own site architecture if desired. All in all, the primary customer will be Grass Treatment, with potential to down to line to sell the framework of the website to other dance groups.

## 2c. Other Stakeholders

Stakeholder Class	Stakeholder Role	Stakeholder Name	Stakeholder Rationale	Necessary Involvement
Client	Grass Treatment Manager	Emily Stone	Integral to success and authenticity of the site	Bi-Weekly Meetings till delivery
Maintenance Operator	Website Administrator	John Gilmore	Will maintain and moderate the site	On-Going
Maintenance Operator	Event Manager	Janine Sewell	Will perform private performance sales and update private performance schedule	6 Hours including business and information meetings

Operational Support	Grass Treatment Performer/Member	Natalie Smith	Will give any necessary information regarding Grass Treatment	Monthly Meetings till delivery
Operational Support	Grass Treatment Performer/Member	MaryWhite	Will give any necessary information regarding Grass Treatment	Monthly Meetings till delivery
Operational Support	Grass Treatment Performer/Member	Tina Gonzalez,	Will give any necessary information regarding Grass Treatment	Monthly Meetings till delivery
Operational Support	Grass Treatment Performer/Member	Tiffany Theodore	Will give any necessary information regarding Grass Treatment	Monthly Meetings till delivery
Core Team Member	Design Lead	Andrew Hegarty	Will contribute to the design implementation and any topics regarding design	Bi-Weekly Meetings till delivery
Core Team Member	Project Manager	Grace Carchidi	Will distribute tasks and allocate deadlines, and will set dates and times for project completion	Bi-Weekly Meetings till delivery
Core Team Member	Requirements Analyst	Veronica Marquez	Will review and document requirements	Bi-Weekly Meetings till delivery
Core Team Member	Lead Developer	Alex Sheriff	Will work on the software of the system and how it can work with Grass Treatment	Bi-Weekly Meetings till delivery

## 2d. The Hands-On Users of the Product

User Name	User Role	User Characteristics	Subject Matter Experience
Fans	Browse/buy from/communicate on the website	Key User	Novice
Common User	Browse/buy from the website	Key User	Novice
Site Administrator: John Gilmore	Maintain/moderate website	Secondary User	Master
Owner: Emily Stone	Maintain/decide what is shown on the website	Secondary User	Master
Natalie Smith	Able to decide what is appropriate to show on the website	Secondary User	Journeymen
MaryWhite	Able to decide what is appropriate to show on the website	Secondary User	Journeymen
Tina Gonzalez,	Able to decide what is appropriate to show on the website	Secondary User	Journeymen
Tiffany Theodore	Able to decide what is appropriate to show on the website	Secondary User	Journeymen
Event Manager: Janine Sewell	Completes sales of items over the phone or email	Secondary User	Master
Event Booker	Books events, hire the band for private performances	Tertiary User	Novice

## 2e. Personas

### I. Fan:

- A. Ally Jackson, a 24-year-old accountant from Newark, NJ, is a huge fan of Grass Treatment. She has been to all the pop-up shows and has made great friends at the scheduled shows. She has a husband, she loves to go hiking with, and two dogs. She finds the current system to buy tickets extremely confusing and wishes for an easier way to find shows, buy tickets, and even buy merchandise if she had the chance. She loves all things breakdancing and can't wait to meet some other fans.



### II. Common User:

- A. George Street is a 29-year-old dog walker from West Long Branch, NJ, he loves all animals and hopes to one day work at a veterinary clinic. He is into breakdancing, pop music and hopes to get out to more events with his new girlfriend Cynthia. He is fairly good with electronics and hopes for an easy access website for any event he wants to scope out or buy tickets to. He is a down to earth guy that loves all things involving dogs or dancing.



## 2f. Priorities Assigned to Users

Stakeholder name	Key Users	Secondary Users	Can upload information	Can view media	Can Propose new forum	Can delete or modify comment	Can suspend users	Can approve information	Can perform private performance sale
John Gilmore			X	X	X	X	X		
Janine Sewell			X	X					X
Emily Stone				X				X	
Fan/User	X			X		X			
Natalie Smith		X		X				X	
Mary White		X		X				X	

Tina Gonzalez		X		X				X	
Tiffany Theodore		X		X				X	
Andrew Hegarty		X		X		X			
Grace Carchidi		X		X		X			
Veronica Marquez		X		X		X			
Alex Sheriff		X		X		X			

## 2g. User Participation

User	Estimated Participation Time	Type of Knowledge Expected
Emily Stone	Bi-Weekly Meetings till delivery	Style, Theme, and Aesthetics representing “Grass Treatment”
John Gilmore	On-Going	Site Architecture, Forum Organization, Admin/Maint. Tools
Janine Sewell	6 Hours	Pricing and locations for all events and merchandise.
Fans	On-Going upon delivery	Group interests, basic website navigation experience
Common Users	On-Going upon delivery	Curiosity, basic website navigation experience
Natalie Smith	Monthly Meetings till delivery	Breakdancing Rules, Style, Design inputs.
MaryWhite	Monthly Meetings till delivery	Breakdancing Rules, Style, Design inputs.

Tina Gonzalez	Monthly Meetings till delivery	Breakdancing Rules, Style, Design inputs.
Tiffany Theodore	Monthly Meetings till delivery	Breakdancing Rules, Style, Design inputs.

## 2h. Maintenance Users and Service Technicians

John Gilmore, and other forum moderators will be responsible for:

1. the daily upkeep of the website.
2. uploading necessary media links
3. making sure tour dates and other information are accurate for fans.
4. Overseeing forum discussions by fans, and enforcing site rules.

# Project Constraints

## 3. Global Constraints

The constraints of a project make up a wall that the software must fit into to be able to operate efficiently and legally specifically for the Grass Treatment website. Constraints often manifest themselves before the software gets started as they have applied to the crew even before a website was constructed.

### 3a. Solution Constraints

Description: The website shall be accessible through all internet browsers on computers, laptops, and mobile devices.

Rationale: This will allow a multi-device use of the product so more users have access to the site

Fit Criterion: A study will be done to show that the range of users span over computers, laptops, and mobile device

Description: The Website shall operate on all operating systems

Rationale: This will allow more users on all operating systems to have access to the website

Fit Criterion: A survey will be done to see the range of operating systems in use

Description: The Website shall operate on 4G devices

Rationale: This will allow more users to reach the site

Fit Criterion: Description: The Website shall operate on IOS devices not older than the 6th generation

Rationale: This will allow a large range of users

Fit Criterion: a study will show the use of iPhones lower than the sixth generation.

### **3b. Implementation Environment of the Current System**

The system and the administrator must have access to the user database as well as a system to archive and catalog all forum posts and media posts.

### **3c. Partner or Collaborative Applications**

Must contain 3rd party links to vendors such as Amazon, Itunes, Youtube, Ticketmaster, LiveNation, Spotify, Google Music, etc. The website must also contain links to contact event managers for private events.

### **3d. Off-the-Shelf Software**

We will be able to utilize the basic constructs of website design to create the website, while also making it innovative and exciting. While there is no software currently utilized by Grass Treatment, there is no OTS-Software of that kind to be transformed into a fully functioning website. The basic website archetypal software will be implemented.

### **3e. Anticipated Workplace Environment**

The workplace environment is not important to develop around. The website will be accessible from anything that can connect to the internet and run a browser. This includes an office environment, house environment, coffee/casual book shops, school computer labs, and anywhere a phone has service or WiFi connection.

### **3f. Schedule Constraints**

The deadline for this project to be fully completed is 12/15/19, due to the fact that Emily Stone, the owner needs to begin allowing users to purchase tickets, merchandise for the upcoming tour of Grass Treatment. If the deadline is not met the budget will be affected greatly, potentially leading to a push back on the project and the tour being planned in the process for Grass Treatment.

### **3g. Budget Constraints**

The budget for this project will be \$8,000 with a majority of the funding coming from Emily Stone, the Owner, and the Founder of Grass Treatment.

### **3h. Enterprise Constraints**

This product shall make all functionality and website maintenance available to John Gilmore, the Website Administrator. The product shall also be able to be used on any device that has access to the internet.

## **4. Naming Conventions and Terminology**

This section gives the terms and definitions used by both the Grass Treatment members and the Stakeholders so everyone involved in the process can fully understand what is meant when these words are used. This is very useful as breakdancing crews have many bizarre words they use to describe members or even moves they use.

### **4a. Glossary of All Terms, Including Acronyms, Used by Stakeholders Involved in the Project**

Term	Definition
B-Boy/B-Girl	A break-boy/break-girl; breakdancer
B-boying/B-Girling/Breaking	The act of breakdancing; dancing with floor motions, spins, freezes and poses.
Backflip	Dancer flips over backward
Backspin	Dancer balances weight on the upper back and goes into a spin by pushing with the hands or swinging the legs across the body.
Battle	A competition between breakdancers can be individual or group.
Burning	Taunting or disrespecting your opponent in a battle.
Call-out	A challenge to a B-boy battle.
Clean	A freestyle which is executed smoothly, with no mistake
Crash	A big mistake done while dancing
Crew	A group of breakdancers
Cypher	A circle formed by a group of dancers wherein music plays and anyone may step in and dance if he wants to.
Dope	Someone who is very good at breakdancing,
Drop	A downward movement used to smoothly transition from standing position to floor moves.
Fan	Someone who supports, follows the group by going to shows, buying merchandise, keeping up on what they do on social media
Flavor/Flava	One's unique style
Floorflip	Also called "swiping." Dancer assumes a push-up position and flips over, finishing in the original position.

Floor Rocking	Dancer rotates legs in the air while carrying the weight on his hands.
Foundation	Basic B-boy moves
Fresh	A descriptive term for anything good
Freeze	Stopping a dance and holding a position, often balancing on your shoulder, head or hands.
Frontflip	Dancer does a flip in the direction in which (s)he is facing. Generally followed by a backflip.
Grass Treatment	Name of the breakdancing group
Gyro	Also called the Windmill or the Helicopter. Dancer rotates continuously on one shoulder with feet in the air and legs apart.
Hand Spin	Also called the Hand Glide. Dancer spins on one hand with the body parallel to the ground.
Headspin	In a headstand position, the dancer spins by pushing with the hands.
Heelspin	Standing erect, the dancer puts his weight on one heel and initiates a spin by swinging the leg.
Jams	A gathering of B-boys where they practice together, battle each other, or simply freestyle.
Killing it	When a B-boy/girl hits all the beats in a song, or when he is owning the floor.
Locking	Moving the body out of control then back into control, locking into position, collapsing, then locking back.
Popping	Continuous flexing of the muscles to the beat; moves include arm waves and body waves that look like an electric current has passed through the body.
Media	Platforms used by Grass Treatment to stay connected with fans at any given time
Merch	Short for Merchandise, product for fans to show support of Grass Treatment through material items such as hoodies, t-shirts, hats.
Stacking	Going from one freeze to another smoothly
Tour	When “Grass Treatment” goes to other locations to perform to an audience that supports their break dancing
Turtle	Dancer spins with hands on the ground and legs in the air.

Video Albums	A collection of videos by “Grass Treatment” that demonstrates the skills they have in break dancing
Wack	Term that refers to anything bad – usually a move done incorrectly. The opposite of “fresh.”

## 5. Relevant Business Rules and Assumptions

Grass Treatment has to follow a set of policies, both written rules, and unwritten standards. This section gives an insight into these controlling principles that make up Grass Treatments business. Through the rules documented in this section, it allows the rules to be thought of before the programming of the system. Grass Treatment must have these rules followed as they make up a lot of how their business is run and how it stays afloat.

### 5a. Business Rules

Business Rule	Relevant Facts	Business Constraint/Action Enabler/ Computation
The website must display three different types of media: videos, reviews, and pictures	Videos are live video-clips from past performances (free of charge) Reviews are about the group; can be either press articles or video-clips. Pictures are pictures of the group.	Business Constraint
The front page must have the latest relevant news for important information from corresponding web pages.	Latest relevant news includes the newest stories related to the group, their albums, and their recent and future shows. The news can be either press articles or video-clips.	Business Constraint
The website will provide the event managers company contact information	Contact information will allow clients to hire the group to perform at private events.	Business Constraint
All sales through the site will be conducted by a 3rd party.	The first release of the website will not support direct sales of any things/items. It will provide links to 3 <sup>rd</sup> party sellers (such as	Business Constraint

	Amazon, iTunes, Youtube, or Ticketmaster, etc.),	
The website will be maintained by an administrator who will upload the information about the group (including Albums, News, Tours, Media), propose new forum threads, and moderate the discussion in the forum.	Site Administrator is John Gilmore, he will also serve as the forum moderator	Business Constraint
For North New Jersey events the performance fee \$250.00 for travel expenses (i.e. gasoline and mileage)	North New Jersey includes the counties: Bergen County, Essex County, Hudson County, Morris County, Passaic County, Sussex County, Warren County.	Computation
For North New Jersey events there must be paid venue parking for up to nine vehicles		Action Enabler
For North New Jersey events the per diem is \$75 per person.		Computation
For Outside of North NJ performance fee in addition, round trip airfare for up to nine vehicles		Action Enabler
For Outside of North NJ first class ground transportation for up to nine vehicles		Action Enabler
For Outside of North NJ first class hotel accommodations for up to nine members		Action Enabler
For Outside of North NJ the per diem is \$75 per person.		Computation

For Outside of North NJ the per diem is \$75 per person.		Computation
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## 5b. Assumptions

Assumption Definition	Rule Type	Static or Dynamic	Source	Why Important
The event manager will handle all costs and scheduling, as needed.	Business	Static	Company Policy	One event manager in charge will ensure that no mistakes via poor communication will occur.
3rd Party Vendors will partner with Grass Treatment via communication with John Gilmore or Janine Sewell	Business	Static	Company Policy	It is not important for the development team to make these connection, rather we should only focus on linking the vendors after they have been established.
The system shall be able to function under a workload of over 500 users.	Guideline	Dynamic	Prediction	We predict that Grass Treatments fanbase will increase significantly after launch, and would like to accommodate this growth proactively.
Fans will primarily be US based	Inference	Dynamic	Assumption	For now English will be the primary used language on the

				Website. Further language translations will be incorporated as the fanbase spreads.
Emily Stone will handle all staff changes/hiring	Business	Static	Company Policy	This rule ensures that nothing on the website will be related to hiring staff. It is out of scope.
The website will not handle any store transactions	Constraint	Dynamic	Company Policy	This assumption is for developers to not consider programming functionality to sell store items through the website. It will be handled by 3rd party vendors.
The website will not be a facility to spread messages of hate or bigotry.	Guideline	Static	Standards and Regulations	This ensures that regardless of the situation, hate and bigotry will not be spread. The website admin reserves the right to suspend or ban users if he so feels to.
The website's framework may be sold to dance groups in the future	Business	Dynamic	Prediction	This is an assumption for the future of the product. If Emily Stone so desires the framework of the website could be sold to other dance groups. With this in mind,

				the architecture of the website should be heavily documented and coded up to industry standards.
The website will be built in HTML/CSS with use of Javascript.	Guideline	Static	Development Plan	Knowing the foundation of the website is important for developers to understand how to design the website.
The website will be primarily used for information on events and advertisement via media.	Guideline	Static	Assumption	The website should be develop the event, media, and news pages first. other pages are important as well, but ideally event, news, and media are highest importance for functionality.

## **6. The Scope of the Work**

The scope of work helps to give boundaries to the business area of Grass Treatment in which the system (a website in this case) is being built for. This chapter helps to provide an understanding about Grass Treatments current lack of a website along with how a website will help the crew as a whole. Furthermore, the scope provides an overview of what exactly the system being built should accomplish and do.

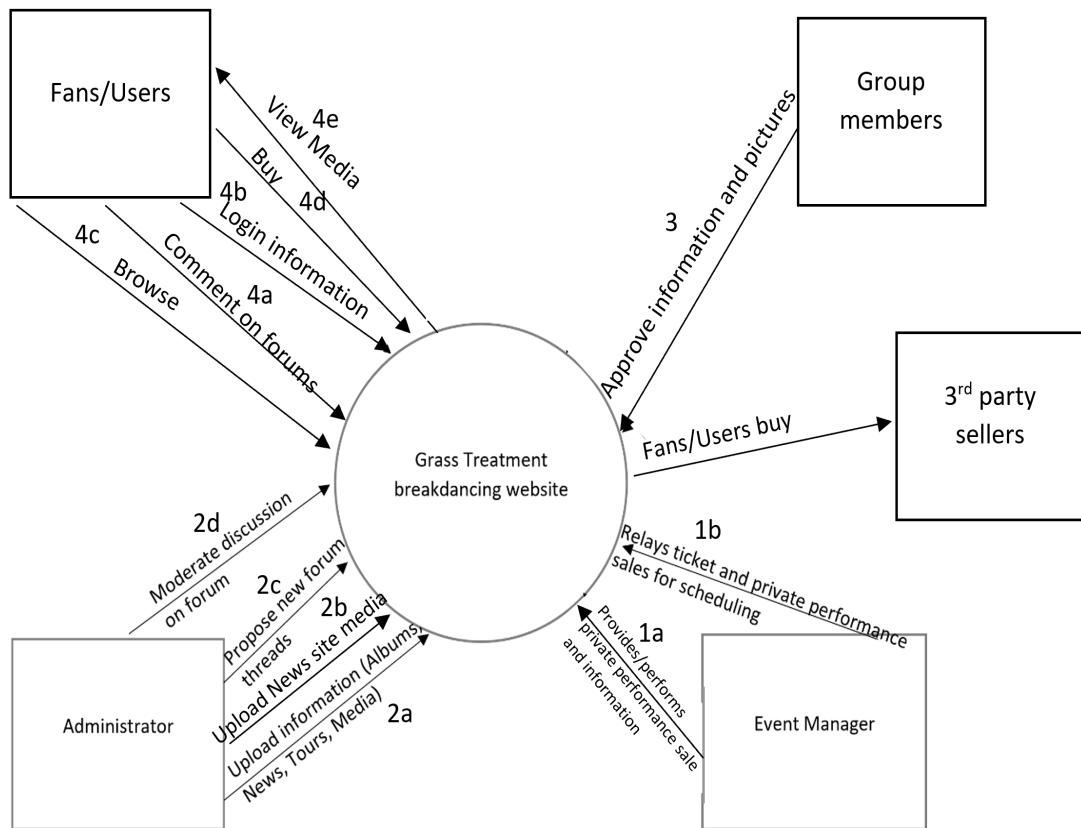
### **6a. The Current Situation**

At the current time, the Grass Treatment breakdancing group does not have a website to act as a home page. Instead of a website, the group sells their breakdancing video albums, performance tickets, private performance services, and items with the group's logo. Without a website, the group is losing out on connecting with potential new fans since the group mainly focuses on word of mouth to try and spread their group farther. They have a rather large following; however, Emily, the group leader, believes a website will improve sales for all their shows and merchandise.

The workload combined with actually performing in the group has become too much for Emily and the other members who promote the purchase of their albums, tickets, and merchandise. They have had no time for anything other than dancing and selling. This workload has become too much for Emily and the others to bear and the need for a central place where they can get their image, showtimes, tickets, and merch out to the public not only through word of mouth but in a way that is easily accessible and usable

This project will allow for a central place for the group to post announcements about their performances and products and for fans and users to purchase tickets and merchandise. This website will help take some weight off of Emily and her crew's shoulders, in the hopes that this website will improve the popularity of the band and improve both the process and the amount of sales. It will allow the fans and any other users to learn more about the crew and all the events, shows and prices of tickets or merch.

## 6b. The Context of the Work



## 6c. Work Partitioning

Event Name	Inputs and outputs	Business Use Case Summary
1a. Event Manager provides/ performs private performance information and sale	Private performance information including the price and availability (in)	The event manager will give the Performance fee, and any other fees for a private performance and perform the sale
1b. Event Manager provides private performance sales for scheduling	What days the Fan/User purchase (in)	The event manager will update the schedule
2a. Administrator uploads information	Albums, tours, media (in)	The administrator will upload the albums and tour dates and any media or news appropriate for the website to be viewed by the users
2b. Administrator uploads news site media	Reviews, video clips newest stories about group	The administrator will upload reviews, video clips and the newest stories about group appropriate for the website to be viewed by the users
2c. Administrator proposes new forum threads	Forum threads (in)	The administrator will propose new threads for the users and fans to respond and give their opinions on
2d. Administrator moderates discussion on forum	Rules and regulations for the chat (in)	The administrator will regulate and set rules for the forum so it stays appropriate and positive, the administrator has the power to not allow users to post
3. Group Members approve information and media	Approved information and media(in)	The group members will approve the information and pictures to post on the website

4a. Fans/Users will be able to comment on forum threads	Fan/User comments(in)	The Fans/Users will post comments or respond to forum threads posted by the administrator
4b. Fans/Users will have an account or create an account	Login information(in)	The Fans/users will make an account to post on and buy from the website and will log in to purchase or post
4c. Fans/Users browse	Browse(in)	The Fans/users will be able to browse the site, viewing any media posted and have the option to buy
4d. Fans/Users buy	Buy(in)	The Fans/users, if they want to purchase something, will click a link provided by the admin which will take them to a new tab of a 3rd party seller
4e. Fans/Users view media	Media(out)	See 4c.
3rd Party Sellers	**Adjacent system	

## **6d. Specifying the Business Use Cases (BUC)**

1. a)

Business event name: Event Manager relays private performance sales

Business Use Case name: Event Manager enters sales

Trigger: A sale is made/changed

Preconditions: Grass Treatment isn't already booked

Interested Stakeholders: Event Manager, Fans/Users

Active Stakeholders: Event Manager

b)

Business event name: Event Manager provides/performs private performance sale

Business Use Case name: Event Manager provides/performs private performance sale

Trigger: Fan/User wants to purchase a private performance

Preconditions: Event Manager available, Grass Treatment isn't already booked

Interested Stakeholders: Event Manager, Fans/Users, Emily

Active Stakeholders: Event Manager, Fans/Users

2. a)

Business event name: Administrator uploads information

Business Use Case name: Uploading information

Trigger: New album, new tour dates, new media

Preconditions: place for the information to be displayed

Interested Stakeholders: Client, Administrator, Users

Active Stakeholders: Administrator

b)

Business event name: Administrator uploads news site media

Business Use Case name: Uploading news site media

Trigger: New review, new video clip, any new story about the group

Preconditions: Place for the information to be displayed

Interested Stakeholders: Client, Administrator, Users

Active Stakeholders: Administrator

c)

Business event name: Administrator proposes new forum threads

Business Use Case name: maintain forum threads

Trigger: demand for a new thread, need for a discussion on topic

Preconditions: place to post the thread and responses

Interested Stakeholders: Client, Administrator, Users

Active Stakeholders: Administrator, Users

d)

Business event name: Administrator moderates forum threads

Business Use Case name: maintain forum threads

Trigger: broken rule, inappropriate chats/behaviors

Preconditions: Admin logged in, set rules

Interested Stakeholders: Client, Administrator, Users

Active Stakeholders: Administrator, Users

3. Business event name: Group members approve media to be posted

Business Use Case name: Group members approve media

Trigger: a new story/media/post (involving a group member) is produced

Preconditions: Group Member available

Interested Stakeholders: Group Members, Administrator

Active Stakeholders: Group Members, Administrator

4.

a)

Business event name: Fan/Users comment on forum

Business Use Case name: Fan/Users comment on forum

Trigger: a new forum discussion is posted, a Fan/Users has thought

Preconditions: forum posted, valid login

Interested Stakeholders: Fans/Users, Administrator, Emily, Group Members

Active Stakeholders: Fans/Users, Administrator

b)

Business event name: Fans/users provide login information

Business Use Case name: Fans/users login

Trigger: want to purchase, want to post, want to have an account

Preconditions: login available, valid identification

Interested Stakeholders: Fans/Users, Administrator

Active Stakeholders: Fans/Users

c)

Business event name: Fans/Users browse

Business Use Case name: Fans/Users browse

Trigger: Want to view the website

Preconditions: Website, viewable media

Interested Stakeholders: Fans/Users, Administrator

Active Stakeholders: Fans/Users

d)

Business event name: Fans/Users buy

Business Use Case name: Fans/Users buy

Trigger: Fans/Users want to purchase something

Preconditions: 3rd party seller link

Interested Stakeholders: Fans/Users, administrator

Active Stakeholders: Fans/Users

e)

Business event name: Fans/Users view media

Business Use Case name: Fans/Users browse

Trigger: Want to view the website

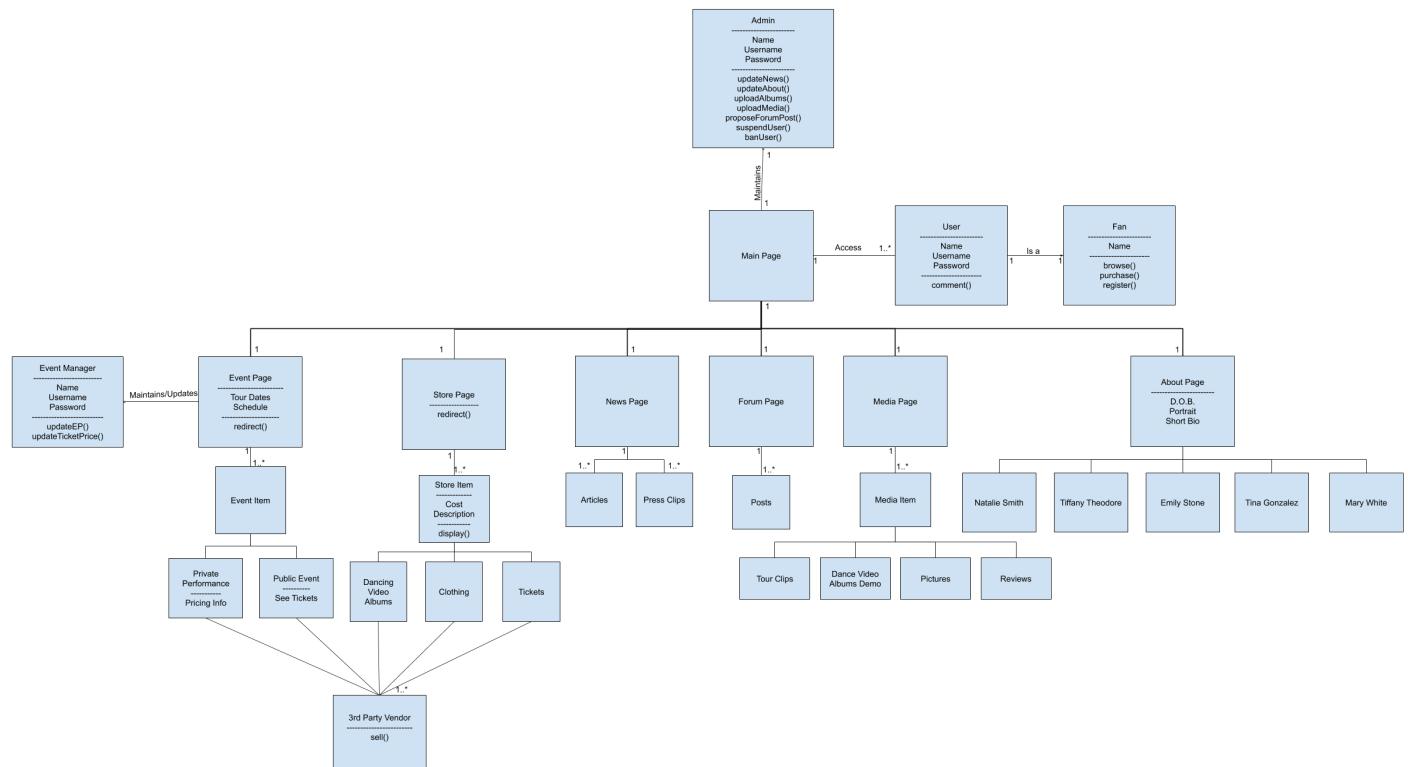
Preconditions: Website, viewable media

Interested Stakeholders: Fans/Users, Administrator

Active Stakeholders: Fans/Users

## 7. Business Data Model and Data Dictionary

### 7a. Business Data Model



## 7b. Data Dictionary

Name	Generated By	Used By	Description
Website	Dev Team	Admin/Fans/Users/ Event Mgr	The project in its entirety. The dev team has been hired to create this website to help Grass Treatment reach their goals in sales and popularity.
Main Page	Website	Everyone accessing the website	This is the first page anyone will see after entering the website. It is the central hub, and all other site pages can be accessed through here.
News Page	Website	Fans/Users	This page is for the news regarding Grass Treatment. Any and all relevant information regarding the crew will appear on this page.
Articles	News Page/ Admin	Fans/Users	These articles will be supplied by John Gilmore, site admin. They are text-based pieces of news for users and fans to read.
Press Clips	News Page/ Admin	Fans/Users	Uploaded by John Gilmore, these press clips are videos with audio created from 3rd party news outlets regarding Grass Treatment. All fans/users are free to watch.
Store Page	Website	Fans/Users	The page that will display all store items and merchandise. Fans/Users will access this page if they are interested in purchasing physical or digital copies of what Grass Treatment is selling.
Store Item	Store Page/ Admin	Fans/Users	A Store Item can refer to merchandise like clothing, knickknacks, and dancing video albums. Likewise, users/fans interested in purchasing tickets will be redirected to the corresponding item, and from here will be redirected to a 3rd party vendor. All items listed on the store page are sold through an outside source. Each item contains a cost and description.
Event Page	Website	Fans/Users/Event Manager	This page is used by fans/users to find out information on Grass Treatment's tour

			schedule, as well as private performances and other public events. The page is updated and maintained by Janine Sewell.
Event Item	Event Page/ Event Manager	Fans/Users/Event Manager	An event item refers to either a public event, like a tour date or concert, or a private performance. Each item gives specific information on itself, and if the user/fan is interested will be redirected to the store page to purchase.
Forum Page	Website	Fans/Users	This page is for users to discuss any and all things Grass Treatment. Fans are allowed to view but not comment. John Gilmore will post topics of discussion as needed.
Posts	Forum Page/ Admin	Users	Posts are the individual threads that users are allowed to comment on. These are suggested by John Gilmore. Fans may view each thread but are not allowed to comment or vote on them.
Media Page	Website	Fans/Users	The media page hosts all things related Grass Treatment, which are free to view. Each media items is accessible by fans/users for view.
Media Item	Media Page/ Admin	Fans/Users	A media item refers to a specific type of media. The website hosts four specific kinds, being video clips, pictures, dance video album demos, and reviews. Each of these are uploaded and archived by John Gilmore as necessary.
About Page	Website	Fans/Users	This page gives fan/ background information on who Grass Treatment's members are as a whole. The page will feature 5 independent sections, one for each member, containing their name, date of birth, and a short biography about them. John Gilmore is responsible for keeping them up to date as necessary.
Admin	Dev Team	John Gilmore	The site administrator. He is responsible for the overall upkeep of the website. This includes updating the store/media/news page,

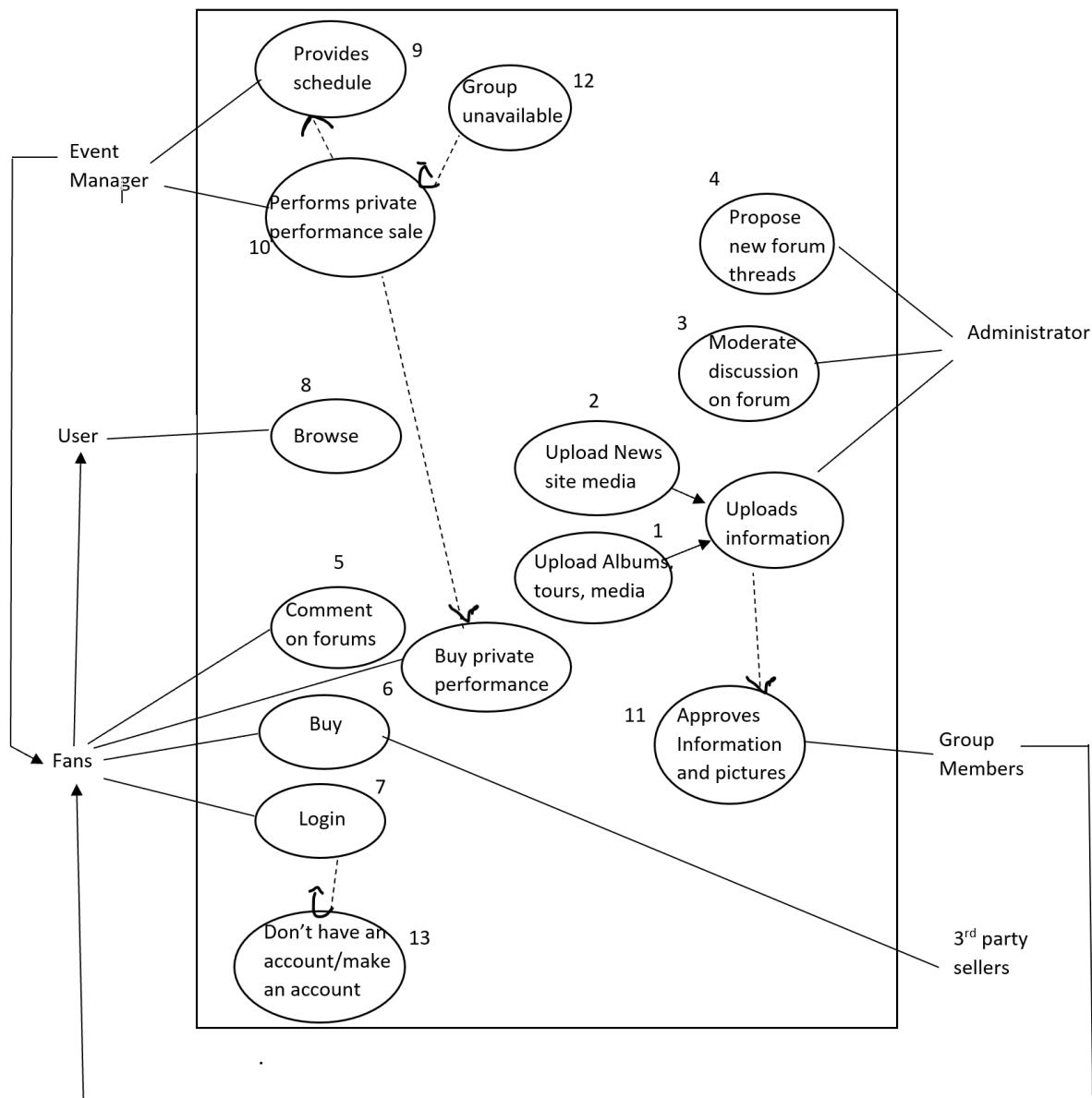
			as well as posting on the forums. Overall it is imperative that he monitors and maintains the website consistently, and is paid accordingly.
Event Manager	Admin	Janine Sewell	The site event manager. She is responsible for updating the Event Page. This includes everything from tour dates to private performance rates. Without Janine then the general public will not be informed of Grass Treatments public appearances.
Fan	Admin	-	A casual browser. They do not have an account, but still are allowed to purchase tickets and merchandise.
User	Fan	-	User is a fan, but with additional privileges. They are allowed to comment on forum posts.
3rd Party Vendor	Adj System	Fans/Users/Event Manager	3rd Party Vendors are responsible for selling Grass Treatment merchandise and tickets. We intend to work through them for the foreseeable future, until Emily Stone is interested in selling everything through the website itself.

## 8. The Scope of the Product

The scope of product helps to give boundaries to the actual system being built for the crew and fans/Users of Grass Treatment. This chapter helps to provide an understanding about the work expected of the system. Furthermore, this scope provides an overview of what exactly the system being built should include and disclude.

### 8a. Product Boundary

Grass Treatment PUC Diagram



### **8b. Product Use Case Table**

PUC No	PUC Name	Actors/Users	Associated BUC
1	Administrator uploads information	Administrator	2a
2	Administrator uploads news site	Administrator	2b
3	Administrator moderates discussion	Administrator	2d
4	Administrator proposes new forum thread	Administrator	2c
5	Fans/user comments on forum	Fan/User	4a
6	Fan/User buys	Fan/User	4d
7	Fan/User logs in	Fan/User	4b
8	Fan/User browses	Fan/User	4c
9	Event Manager provides the schedule	Event Manager	1b
10	Event Manager performs a private performance sale	Event Manager	1a
11	Group members approve media	Group members	3
12	Group is unavailable	Event Manager	1b
13	Don't have an account/ make an account	Fan/User	4b

## **8c. Individual Product Use Case**

PUC 1 - Administrator uploads information

1. The use case begins when new information needs to be uploaded
2. The administrator logs into the system
3. The administrator uploads the information(Albums, tours, media) and the use case ends

PUC 2 - Administrator uploads news site media

4. The use case begins when a new site posts new media related to the group
5. The administrator logs into the system
6. The administrator uploads the media(Reviews, video clips newest stories about group) and the use case ends

PUC 3 - Administrator moderates discussion

1. The use case begins when the administrator logs into the forum system to moderate forum discussion.
2. The administrator navigates to particular forum thread for moderation
3. If the Administrator gives a warning
  - a. The system notifies the user that they have received a warning
  - b. The system notifies how many warnings they have left and the use case ends
4. If the User has run out of warnings
  - a. The administrator suspends the account
  - b. The system notifies the user that they have been suspended and the use case ends
5. The administrator ensures that comments posted by fans/users are within the forum rules set forth and the Use Case Ends

PUC 4 - Administrator proposes new forum thread

1. The use case begins when the administrator logs into the forum system to propose a new forum thread
2. The administrator writes new forum thread on the forums
3. The administrator posts new forum thread and the Use Case ends

PUC 5 - Fans/user comments on forum

1. The use case begins when a fan/user wants to comment on a forum thread
2. The fan/user enters their comment into a text field on the particular thread
3. If the user is suspended
  - a. The comment is not posted and the use case ends.
4. The fan/user posts a comment
5. The comment gets added to the end of the thread to signify that it is the newest and the Use Case Ends

PUC 6 - Fan/User buys

1. The use case begins when the fan/user wants to buy something
2. The fan/user clicks on the link provided by the administrator to a 3rd party seller
3. The system will open a new tab for the fan/user to browse what they want to buy
4. The fan/user will complete the purchase on the 3rd party sellers page
5. The fan/user will exit out of the tab and return to the website and the use case ends

PUC 7 - Fan/User logs in

1. The use case begins when a fan/user tries to log in
2. If Extend {Don't have an account/Make an account}
3. The fan/user is asked to input their username and password
4. The system verifies an account with those credentials exists
5. The system logs the user in successfully and the Use Case Ends

PUC 8 - Fan/User browses

1. The use case begins when the Fan/user goes on the website
2. The fan/user will view any media posted or check availability and shows
3. If the user logs in they can interact with the forum
4. The fan/user leaves the website and the use case ends

PUC 9 - Event Manager provides the schedule

5. The use case begins when the Event Manager obtains the physical band schedule
6. The event manager logs into the website
7. The event manager selects "update schedule"
8. The event manager manually enters respective dates and times for performances
9. The event manager finalizes and submits the schedule.
10. The system displays the updated schedule

PUC 10 - Event Manager/user performs a private performance sale

1. The use case begins when a Fan/User is interested in purchasing a private performance.
2. The customer enters the private performance section of the website
3. The system displays all available times and dates for private performances extend {Group unavailable}
4. The customer selects a private performance
5. The event manager confirms the sale and enters the updated availability and the use case ends

PUC 11 - Group members approve media

1. The use case begins when the administrator wants to post new media
2. The group members confirm or deny the posting and the use case ends

PUC 12 - Group is unavailable

1. The use case begins when a private performance sale is requested

2. The event manager ask the days or the user specifies what days
3. If the schedule says the group is booked the group is unavailable and the use case ends

PUC 13 - Don't have an account/ make an account

1. The use case begins when a user wants to create an account
2. The fan/user is instructed to register for an account
3. The fan/user enters a username and password
4. The system creates the account and the use case ends

## 9. Functional Requirements

These functional requirements of the Grass Treatment website will serve as the backbone for the system's functionality.

### 9a. Functional Requirements

**UC-1.1 - New information needs to be uploaded**

**FR1-Description:** The system shall accept downloaded information

**FR1-Rationale:** To be able to keep the website up to date and relevant

**UC-1.2 - The administrator logs into the system**

**FR1-Description:** The system shall verify the administrator

**FR1-Rationale:** This will allow for only a verified person to be able to upload/change information

**FR2-Description:** The system shall store the user's username

**FR2-Rationale:** This allows the system to verify if a user's name is correct.

**FR3-Description:** The system shall store the user's password

**FR3-Rationale:** This allows the system to verify if a users password is correct

**FR4-Description:** The system shall record time when login occurs

**FR4-Rationale:** This will allow the administrator and other SK's to assess site traffic as needed

**FR5-Description:** The system shall allow interactive input

**FR5-Rationale:** This will allow users to enter characters via keyboard, touchscreen, or other methods as necessary.

**UC-1.3c &1.4c - The Administrator uploads the media to the correct section of the website**

**FR1-Description:** The system shall accept multiple types of media

**FR1-Rationale:** This will allow the website to have many different types of media to represent the group

**FR2-Description:** The system shall accept pictures to be uploaded

**FR2-Rationale:** This will allow the website to have many different types of media to represent the group

**FR3-Description:** The system shall accept videos to be uploaded

**FR3-Rationale:** This will allow the website to have many different types of media to represent the group

**FR4-Description:** The system shall display albums of videos

**FR4-Rationale:** This will allow the website to have many different types of media to represent the group

**FR5-Description:** The system shall provide different sections for different specified types of media

**FR5-Rationale:** This will allow the administrator to have a set place for uploaded media

**UC-3.2 - The administrator navigates to particular forum thread for moderation**

**FR1-description:** The system shall allow the administrator to search forum threads

**FR1-Rationale:** This will allow the administrator to find threads to moderate

**FR2-description:** The system shall display the forum threads

**FR2-Rationale:** This will allow the administrator and fan/user to see and look through forum threads

**UC-3.3 - The Administrator gives a warning**

**FR1-Description:** The system shall allow the administrator to give a warning

**FR1-Rationale:** This will allow the administrator to give warnings out to multiple users

**FR2-Description:** The system shall allow administrator to select a user

**FR2-Rationale:** This will allow for the administrator to find and select the user who they wish to give the warning to

**FR3-Description:** The system shall allow administrator to mark the user with a warning

**FR3-Rationale:** This will allow for the user to receive the warning from the administrator

**UC-3.3a -The system notifies the user that they have received a warning**

**FR1-Description:** The system shall register the warning

**FR1-Rationale:** This will allow for the system to store the information of the user who was warned

**FR2-Description:** The system shall generate a notification to the user who was warned

**FR2-Rationale:** This will allow for the user to be alerted of the warning issued to them

**FR3-Description:** The system shall send a notification to the user's account

**FR3-Rationale:** This will allow for the user to receive the notification

**UC-3.3b - The system notifies how many warnings they have left**

**FR1-Description:** The system shall store the amount of warnings a user has.

**FR1-Rationale:** This will allow the system to keep track when a user has enough warnings to warrant suspension.

**FR2-Description:** The system shall display to the user and the administrator only the amount of warnings a user has received

**FR2-Rationale:** This will allow the user to keep track of how many warnings they have

### **UC-3.4 -User has run out of warnings**

FR1-Description: The system shall send a notification to the administrator when a user has run out of warnings

FR1-Rationale: This will allow the administrator to suspend the account

#### **UC-3.4a -The administrator suspends the account**

FR1-Description: The system shall allow the administrator to suspend an account

FR1-Rationale: This will allow the forum to remain controlled

FR2-Description: The system shall allow a suspended user access to their account and the website

FR2-Rationale: This will allow the user to continue using the site

FR3-Description: The system shall barr the suspended user from posting a comment

FR3-Rationale: This will allow the forum to remain a user-friendly environment

#### **UC-3.4b -The system notifies the user that they have been suspended**

FR1-Description: The system shall notify the user when they have been suspended

FR1-Rationale: this will allow the user to know when they no longer have access to the forum

### **UC-3.5 - The administrator ensures that comments posted by fans/users are within the forum rules set forth**

FR1-Description: The system shall warn if a stated rule or regulation has been broken

FR1-Rationale: This will allow the administrator to see when a rule has been broken

FR2-Description: The system shall allow the administrator to delete comments

FR2-Rationale: This will allow the forum to stay regulated

FR3-Description: The system shall send an email to the user when a rule has been broken with the description of the broken rule

FR3-Rationale: This will allow the user to understand why the administrator removed their comment

### **UC-4.1 - Administrator logs into the system**

FR1-Description: The system shall store the user's username

FR1-Rationale: This allows the system to verify if a user's name is correct.

FR2-Description: The system shall store the user's password

FR2-Rationale: This allows the system to verify if a users password is correct

FR3-Description: The system shall record time when login occurs

FR3-Rationale: This will allow the administrator and other SK's to assess site traffic as needed

FR4-Description: The system shall allow interactive input

FR4-Rationale: This will allow users to enter characters via keyboard, touchscreen, or other methods as necessary.

### **UC-4.2 - Administrator proposes new forum thread**

FR1-Description: The system shall allow forum threads to be created

FR1-Rationale: This allows the admin full capabilities when navigating the forum

FR2-Description: The system shall allow forum threads to be deleted

FR2-Rationale: This allows the admin full capabilities when navigating the forum

FR3-Description: The system shall allow forum threads to be modified

FR3-Rationale: This allows the admin full capabilities when navigating the forum

#### UC-4.3 Administrator writes new forum thread on the forums

FR1-Description: The system shall have a clickable button to allow creating a thread

FR1-Rationale: This visually registers with user's that we can create a new thread by clicking the button

FR2-Description: The system shall display a new window with a text field

FR2-Rationale: This will be a designated area for the administrator to write his thread

FR3-Description: The system shall display different clickable buttons for formatting text.

FR3-Rationale: This will allow the administrator to format his thread as he/she prefers.

FR4-Description: The system shall allow input for thread-window.

FR4-Rationale: This guarantees the administrator will be able to write his forum threads and click on the necessary buttons to format as they desire.

#### UC-4.4 Administrator posts new forum thread

FR1-Description: The system will display a clickable submit button on the thread-window.

FR1-Rationale: This is the visual designation for users to confirm and submit their thread.

FR2-Description: The system shall allow display an edit button on the forum title

FR2-Rationale: This allows users to go back and edit their threads

#### UC-5.1 Fan/User comments on a forum thread

FR1-Description: The system shall allow user to create a comment

FR1-Rationale: This allows the Fan/User capability to comment on the forum

FR2-Description: The system shall allow user to delete a comment

FR2-Rationale: This allows the Fan/User capability to delete a comment on the forum

FR3-Description: The system shall allow user to modify a comment

FR3-Rationale: This allows the Fan/User capability to modify comment on the forum

#### UC-5.2 Fan/User enters comment into a text field on the particular thread

FR1-Description: The system will display a text field for a comment to be entered

FR1-Rationale: This will allow Fan/User to enter their comment

FR2-Description: The system shall allow a comment to be entered on a specific thread

FR2-Rationale: This allows the Fan/User to comment in a particular thread

#### UC-5.3 If the user is suspended

FR1-Description: The system shall verify whether an account is suspended

FR1-Rationale: This allows the system to recognize a suspended account and bar them from posting

#### UC-5.3a The comment is not posted

FR1-Description: The system shall not allow a comment to be entered on a specific thread

FR1-Rationale: This allows the forum to remain a user friendly environment

#### UC-5.4 Fan/User posts comment

FR1-Description: The system shall have a button to post comment

FR1-Rationale: This allows Fan/User to confirm the text and post it

FR2-Description: The system shall display a delete button on the comment

FR-Rationale: This allows Fan/User to delete their comment after it's been posted

#### UC-5.5 The comment gets added to the end of the thread to signify that it is the newest

FR1-Description: The system will transfer the comment to the end of the thread

FR1-Rationale: This will inform Fan/User that the comment is the most recent

FR2-Description: The system will date stamp the comment

FR2-Rationale: This lets Fan/User know the date the comment was posted

FR3-Description: Next to the date stamp the system shall time stamp the comment

FR3-Rationale: It will let Fan/User know the time the comment was posted

#### UC-6.1 The Fan/User wants to buy something

FR1-Description: The system shall display a clickable link for a 3rd party seller

FR1-Rationale: This gives the Fan/User a visual location to begin the purchase

FR2-Description: The system will redirect the Fan/User to a new display

FR2-Rationale: This lets the Fan/User know the media is available to purchase

#### UC-6.2 & 6.3 The fan/user clicks on the link to a 3rd party seller

FR1-Description: The system shall open a new tab for the 3rd party seller's website

FR1-Rationale: This lets the Fan/User know they can return to the Grass Treatment website

#### UC-6.4 & 6.5The fan/user will complete the purchase on the 3rd party sellers page

FR1-Description: The system shall remain idle while the Fan/User completes the purchase and browses the 3rd party seller

FR1-Rationale: this will allow the fan/user to return to exactly where they were before they decided to purchase

#### UC-7.1 Fan/User logs in

FR1-Description: The system will let input from Fan/User

FR1-Rationale: This allows the Fan/User to login in

#### UC-7.2 Fan/User doesn't have an account

FR1-Description: The system will display a clickable button to make an account

FR1-Rationale: This allows for those who don't have an account to begin making an account

FR2-Description: The system will redirect the user to a new page to make an account

FR2-Rationale: This will confirm the Fan/User is going to be making an account

FR3-Description: The system shall display text field boxes for input

FR3-Rationale: This allows for Fan/User to input their information

**FR4-Description:** The system will display instructions on top of the text field boxes

**FR4-Rationale:** This allows for the Fan/User to know what to put in each text field based on the instructions

**FR5-Description:** The system will let input from Fan/User

**FR5-Rationale:** This allows for Fan/User to input their new username and password

**FR6-Description:** The system will display a clickable button to create the account

**FR6-Rationale:** This allows for the account to be created

**FR7-Description:** The system will store the new account information into the database

**FR7-Rationale:** This will keep the users account on record so the user can later login in

### **UC-7.3 The Fan/User is asked to input username and password**

**FR1-Description:** The system displays text asking the user to input username and password

**FR1-Rationale:** This lets the Fan/User know to input their information

**FR2-Description:** The system allows input from Fan/User

**FR2-Rationale:** This will let the Fan/User input their username and password

### **UC-7.4 Verification of account**

**FR1-Description:** The system will store the username

**FR1-Rationale:** This allows the system to verify if the username is correct

**FR2-Description:** The system will store the password

**FR2-Rationale:** This guarantees the password is correct

**FR3-Description:** The system will check if both the username and password match an existing account

**FR3-Rationale:** This makes sure that the account exists in the database

### **UC-7.5 User logs in successfully**

**FR1-Description:** The system will process the username and password

**FR1-Rationale:** This will guarantee the user is logged in

**FR2-Description:** The system will display a message saying that the user was logged in successfully

**FR2-Rationale:** This confirms the user that they have been logged in

### **UC- 8.1 The Fan/user goes on the website and browses**

**FR1-Description:** The system shall display media to be browsed efficiently

**FR1-Rationale:** this will allow the fan/user to see all available information and media

**FR2-Description:** The system shall allow the user to navigate through media or tabs

**FR2-Rationale:** This will allow the fan/user to browse efficiently

### **UC-8.2 The fan/user will view any media posted or check availability and shows**

**FR1-Description:** The system shall allow the user to navigate through media or tabs

**FR1-Rationale:** This will allow the fan/user to browse efficiently

### **UC-8.3 If the user logs in they can interact with the forum**

**FR2-Description:** The system shall allow the user to log in at any time when on the website

FR2-Rationale: This will allow the fan/user to access or make an account at any time

#### UC-8.4 The fan/user leaves the website

FR2-Description: The system shall allow the fan/user to exit the website at any time

FR2-Rationale: This will allow the user to exit the website at anytime

#### UC-9.1 Event Manager Obtains Physical Band Schedule

\*\*Adjacent System, no FR needed\*\*

#### UC-9.2 Event Manager Logs into Website

See UC-6.1

#### UC-9.3 Event Manager Selects “Update Schedule”

FR1-Description: The system shall display a tab for Band Scheduling

FR1-Rationale: This allows users to visibly see a page for the tour/band scheduling

FR2-Description: The system shall display a clickable button for updating the schedule

FR2-Rationale: This allows administrators/event manager to recognize an option to change the band schedule

FR3-Description: The system shall open a new window

#### UC-9.4 Event manager enters respective dates and times for performances

FR1-Description: The system shall display inputs for time/date/location/ and available performances

FR1-Rationale: This allows the users to view performance information to see what best fits their own schedule

#### UC-9.5 Event Manager Finalizes and Submits Schedule

FR1-Description: The system shall display a clickable submit button

FR1-Rationale: This will visually confirm with the event manager where to click to submit the updated schedule.

FR2-Description: The system shall confirm with the user it wants to submit the schedule

FR2-Rationale: This ensures that the event manager did not accidentally submit

FR3-Description: The system shall display a confirmation window, with two buttons prompting to confirm or deny submission.

FR3-Rationale: Confirms with the event manager

#### UC-9.6 System shall display updated schedule

FR1-Description: The system shall display an updated schedule on the performance page

FR1-Rationale: This allows users to view the group's schedule.

#### UC-10.1 A customer is interested in purchasing a private performance.

FR1-Description: The system shall allow the Event Manager's business number to be displayed

FR1-Rationale: This will allow the Fan/User to call the event manager if they are interested in a private performance

**UC-10.2** The customer enters the private performance section of the website

FR1-Description: The system shall display the fees and expenses of a private performance

FR1-Rationale: This will allow the user to gain information on the private performance

FR2-Description: The system shall display the option for a private performance purchase

FR2-Rationale: This will allow the user to gain information on the private performance

**UC-10.3** The system displays all available times and dates for private performances

FR1-Description: The system shall display all available times and dates for private performances

FR1-Rationale: This will show the fan/user the groups availability

**UC-10.4** The customer selects a private performance

\*\*Adjacent System, no FR needed\*\*

**UC-10.5** The event manager confirms the sale and enters the updated availability and the use case ends

FR1-Description: The system shall accept changes and updates to the schedule

FR1-Rationale: This will allow the schedule to always be updated

**UC-11.2** The group members confirm or deny the new media posting

\*\*Adjacent System, no FR needed\*\*

**UC-12.1-3** The group is unavailable

FR1-Description: The system shall warn if the group is unavailable when a private performance sale is being made

FR1-Rationale: This will allow the group to never be double booked

**UC-13.1-** A user wants to create an account

FR1-Description: The system will display a clickable button to make an account

FR1-Rationale: This allows for those who don't have an account to begin making an account

FR2-Description: The system will redirect the user to a new page to make an account

FR2-Rationale: This will confirm the Fan/User is going to be making an account

**UC-13.2** The fan/user is instructed to register for an account

FR1-Description: The system will display instructions

FR1-Rationale: This allows for the Fan/User to know what to do

**UC-13.3** The fan/user enters a username and password

FR1-Description: The system shall display text field boxes for input

FR1-Rationale: This allows for Fan/User to input their information

**UC-13.4** The system creates the account

FR1-Description: The system shall create an account specific to the Fan/user

FR1-Rationale: This allows for Fan/User to have their own account and use the website more

## **10. External Interface Requirements**

### **10a. User interfaces**

1. The website shall provide a link to a help document on each page to instruct users on how to use that page.

### **10b. Software Interfaces**

1. The website shall interface with calendar and datebook software to keep track of events and bookings.
2. The website shall interface with 3rd party sellers of Grass Treatment products.

### **10c. Hardware Interfaces**

1. N/A

### **10d. Communications Interfaces**

1. The website shall send an email to the user to confirm the new account registration.
2. The website shall send an email or text message (according to user account settings) when new Grass Treatment tours are announced.
3. The website shall send an email or text message (according to user account settings) when a new post has been posted by Grass Treatment or their team.

## **Non-functional Requirements**

## **11. Look and Feel Requirements**

### **11a. Appearance Requirements**

1. The product shall be attractive to a teenage audience
  - a. Fit Criterion - Gather a sampling of teenagers to start using the product within five minutes of their first encounter.
2. The product shall display branding
  - a. Fit Criterion - Branding must be verified to make sure it complies and satisfies Grass Treatment's brand
3. The product shall be pleasing to the eye of the user
  - a. Fit Criterion - A study done by researchers at Rutgers concluded that seventy-five percent of users click off websites after five minutes because they got tired of the website.

## **11b. Style Requirements**

1. The product shall appear trendy
  - a. Fit Criterion - After using the product, eighty-five percent of users felt that the website was trendy looking

## **12. Usability and Humanity Requirements**

### **12a. Ease of Use Requirements**

1. The product shall be easy for 16-year-olds children to use
  - a. Fit Criterion - eighty-five percent of a test panel of 16-year-olds shall be able to successfully complete browsing of upcoming events, merchandise products within 15 minutes.
2. The product shall help the user avoid making any errors of use
  - a. Fit Criterion - After two weeks of using the product the user should be able to navigate the website without getting lost.
3. The product shall make the users want to use it
  - a. Fit Criterion - a survey is taken, showing that eighty percent of users are regularly using the product after a two week familiarization period.

### **12b. Personalization and Internationalization Requirements**

1. The product shall look and feel representative of Grass Treatments brand.
  - a. Fit Criterion - Per Grass Treatment members approval
2. The product shall have a primary color of light green for the background
3. The product shall allow the user to select a chosen language from a list of 15 languages
  - a. Fit Criterion - The website shall satisfy 15 different language requests, expected to grow with popularity

### **12c. Learning Requirements**

1. The product shall be able to be used by members who have no training on using the product
  - a. Fit Criterion - Seventy-five percent of a test panel shall successfully complete using the product within thirty minutes.
2. The product shall be able to be used and managed by engineers after four-weeks of training
  - a. Fit Criterion - After four weeks ninety percent of engineers should be able to manage the product and do maintenance on it

## **12d. Understandability and Politeness Requirements**

1. The product shall use words and symbols that are understandable by the users
  - a. Fit Criterion - Following the Fargo policy section 5.1 states that words and symbols should be simple enough for users to understand and use.
2. The product shall not let users' use vulgar language towards anyone
  - a. Fit Criterion - Following the Fargo policy section 5.3 states that no user should use vulgar language to others in any shape or form that could potentially cause a user to become sensitive in an alerting way.

## **12e. Accessibility Requirements**

1. The product shall be used by those who are partially sighted
  - a. Fit Criterion - Researchers found at Montclair that sixty percent of websites built don't take into consideration those individuals who are partially sighted. Showing that overtime website visits rate goes down a drastic five percent after two months.
2. The product shall be able to be used by those with any disabilities by following the American Disabilities Act.
  - a. Fit Criterion - The American Disabilities Act states that products such as websites should be made accessible to those with a disability of any kind.

## **12f. Convenience Requirements**

1. The product shall recognize the user when logged in
  - a. Fit Criterion - The users name shall appear in the top right corner
2. The product shall inform the user when new media is posted.
  - a. Fit Criterion - An email is sent to the user when new media is posted
3. The product shall inform the user of warnings when they are issued.
  - a. Fit Criterion - An email is sent to the user when suspicious activity occurs on their account
4. The product shall allow the user to reset their password on their account.

## **13. Performance Requirements**

### **13a. Speed and Latency Requirements**

1. The time to switch from the website to the 3rd party resources shall have a maximum of 3 seconds.
2. The time to load the assets from the website shall be fast enough to keep the user's attention.
  - a. Fit Criterion - The product shall load in less than 2 seconds 95 percent of the time. No asset loading shall take longer than 3.5 seconds.

### **13b. Safety-Critical Requirements**

1. The website shall not show quickly flashing graphics that may cause seizures.
  - a. Fit Criterion - A study done by Duke, found that five percent of people suffer from seizures due to an aggressive amount of flashing lights. Also found is that fifteen percent of people find flashing lights very irritating, making people become unattracted to any products that could cause that

### **13c. Precision or Accuracy Requirements**

1. All showtimes shall be accurate to five minutes to the actual start time.
2. All monetary amounts shall be accurate to two decimal places.

### **13d. Reliability and Availability Requirements**

1. The entire website shall be available for use 24 hours a day, 365 days per year.
2. The website shall achieve 98 percent uptime.

### **13e. Robustness or Fault-Tolerance Requirements**

1. The website shall be operated in a local mode whenever it loses connection to its server.

### **13f. Capacity Requirements**

1. The product shall cater for 500 simultaneous users.
2. During a new forum thread proposal, the website shall cater to 250 simultaneous users in the forums section.

### **13g. Scalability or Extensibility Requirements**

1. The website shall be capable of processing the existing 2,000 users. This number is expected to grow to 5,000 users within the next three years.

### **13h. Longevity Requirements**

1. This website shall be expected to operate for three years before site architectural updates.

## **14. Operational and Environmental Requirements**

### **14a. Expected Physical Environment**

1. The website shall be usable in dim or no light.
  - a. Fit Criterion - A study conducted by Yale demonstrated that the peak user activity on the website occurs during the evening hours, 5 pm or later. Yale also found that half of the users during peak activity would access the website in their room in the evenings.
2. The website shall not be louder than any other website when playing media.
  - a. Fit Criterion - following the guidelines of Cypress Media policy no website is allowed to exceed a volume of 16. Due to the fact that after 16 the ear begins to become sensitive to sounds louder than 16.

#### **14b. Wider Environment Requirements**

1. The website shall discourage unnecessary printing of website material.

#### **14c. Productization Requirements**

1. The website shall be distributed as a web link.
2. The website shall be able to be accessed by an untrained user.

#### **14d. Release Requirements**

1. Each media release shall include the prior releases.
2. New website features shall not cause old features to fail.

#### **14e. Backwards Compatibility Requirements**

1. The website shall be able to be used on operating systems as old as Windows 2007.

### **15. Maintainability and Support Requirements**

#### **15a. Maintenance Requirements**

1. New information must be able to be added to the website in under a day.
2. The product shall undergo weekly maintenance checks
3. The product shall allow abilities for users to submit website bugs for admin to investigate.

#### **15b. Supportability Requirements**

1. The System Administrator shall be able to provide support to users.
  - a. Fit Criterion - John Gilmore is the administrator and will have access to provide support to users
2. The product shall allow users to request assistance
  - a. Fit Criterion - After four weeks of use 95% of assistance requests shall be opened and fulfilled
3. The product shall contain a FAQ's page to help with general questions

#### **15c. Adaptability Requirements**

1. The website is expected to run on all major web browsers.
2. The website might eventually be accessed worldwide.
3. The website is expected to run on all devices, regardless of age or specifications.

## **16. Security Requirements**

### **16a. Access Requirements**

1. Only the website administrator has access to uploaded information
  - a. Fit Criterion - John Gilmore is the administrator and will have access to upload information
2. Only the event Manager has access to update the group schedule
  - a. Fit Criterion - Janine Sewell is the event manager and will have access to update the group schedule
3. Upon 3 failed login attempts, an increasing time delay before next log in will occur.
  - a. Fit Criterion - After 3 failed login attempts, the user must wait 15 seconds before attempting to log in. After each subsequent failure, the timer increases an additional 15 seconds.
4. Upon 10 Failed login attempts, the system will lock the user out of website for 24 hours.
  - a. Fit Criterion - The system shall be inaccessible after 10 failed login attempts

### **16b. Integrity Requirements**

1. The system shall prevent media file corruption
  - a. Fit Criterion - The product shall have less than 3% file corruption
2. The system shall display correct thumbnails for media posted and produced
  - a. Fit Criterion - After four weeks of use 98% of the thumbnails should correctly correlate to media posted and produced
3. The system shall protect itself from intentional forum/account abuses
  - a. Fit Criterion - After four weeks at least 70% of intentional abuses should be marked and dealt with

### **16c. Privacy Requirements**

1. The product shall make its users aware of its information privacy practices before collecting data from them.
  - a. Fit Criterion - The system will display a popup alerting users of the site use of cookies to store info.
2. The product shall notify Fans/users of changes to its information policy
3. The product shall notify Fans/users of changes to passwords/usernames
  - a. Fit Criterion - Users should receive a confirmation email when changing their email or password
4. The product shall not reveal any private information to anyone who is not the user
  - a. Fit Criterion - Any information significant to the user will require an another log-in attempt with their credentials

5. The product shall protect private information in accordance with the relevant privacy laws and the organization's information policy.

#### **16d. Audit Requirements**

1. The system shall be audited every six months

#### **16e. Immunity Requirements**

1. The system shall protect itself against viruses and unwanted software changes
  - a. Fit Criterion - The system shall have no threat of viruses
  - b. Fit Criterion - All software changes shall be done by Grass Treatments developers and have a sign off to determine the origin of the software change
2. The system shall undergo weekly virus detection scans

### **17. Cultural Requirements**

#### **17a. Cultural Requirements**

1. The product shall not display any information or images of religious or ethnic groups that could be offensive.
2. The system shall flag any potential culturally offensive images or information for the website admin and moderators to look into further.

### **18. Compliance Requirements**

#### **18a. Legal Compliance Requirements**

1. The product shall adhere to the Americans with Disabilities Act, Section 508, Electronic and Information Technology Accessibility Standard
2. The product shall ensure that all media is displayed under "fair use"
3. The product shall adhere to the Communications Decency Act (1996)
4. The product shall adhere to the Computer Security Act (1997)
5. The product shall adhere to the Children's Internet Protection Act (2001)

#### **18b. Standards Compliance Requirements**

1. The product shall follow the standards laid out in the W3C Recommended Accessibility Conformance Testing (ACT) Rules Format 1.0