# SOFTWARE REQUIREMENTS SPECIFICATION



for

# FGG Creature Creator M<sup>3</sup>

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Organization: Moonwake Development

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#### 1 Introduction

Frog God Games, a publisher of RPG style books, has a database of creatures that they want accessed by a website front-end creation application. The application would allow users to access the existing database, while at the same time allowing them to make creatures that can be uploaded publicly or privately. The users would also be able to acquire a custom made PDF file of any public creature, or any creatures created by the user. themselves

#### 1.1 Purpose of This Document

This document specifies what the system created by Moonwake Development for Frog God Games will do. The document's intended audience is Frog God Games. This document also acts as an agreement between the Moonwake Development team and the Frog God Games team on what Moonwake Development will be responsible for in regards to M<sup>3</sup>. This document can be updated in the future with additional requirements if agreed upon and signed by both parties.

#### 1.1.1 References

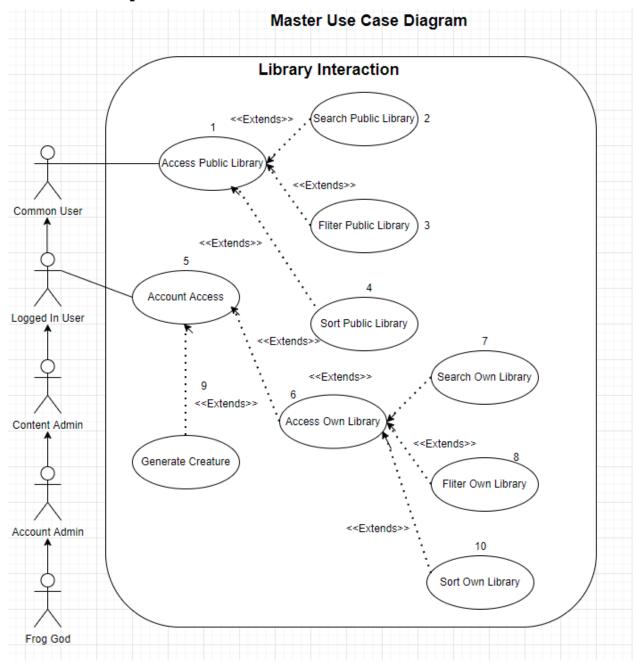
Frog God Games Staff. (2020). *About frog god games*. Frog God Games. Retrieved October 20, 2022, from <a href="https://www.froggodgames.com/frog-crew/">https://www.froggodgames.com/frog-crew/</a>

Fowler, M., & Scott, K. (1997). *Uml distilled: Applying the standard Object modeling language*. Convert-O-Braille.

#### 1.2 Purpose of the Product

Frog God Games are accomplished publishers of role playing games, adventures, and addons for both modern and legacy gaming systems (Frog God Games Staff 2020). The company requires a front end for their database of creatures, M³. The front end of M³ will allow users to search, filter, and create creatures. The main objective of this application is to provide users a way to access the database and utilize it effectively for their game. The product is also meant to enable Frog God Games to bolster their sales.

#### 1.3 Product Scope

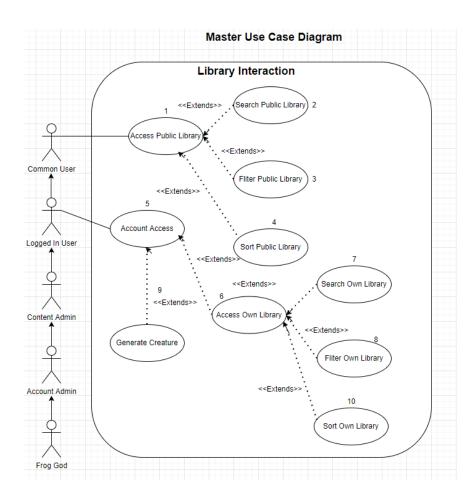


The above diagram demonstrates the boundary between the front end of M³ and the outside world. Users are of the outside world, and interact with the system through various use cases. Our product will have four different user types. They will be a God user type for the owners of Frog God Games and developers; there will be an admin user type that can allow or deny database edits; there will be a logged in common user that has accessibility to their previous uploads; lastly an unlogged in common user that may only look up creatures. The system will allow users to make their creations public upon request if approved by an admin.

# 2 Functional Requirements

The requirements listed below represent what the front end of M³ shall be capable of. The requirements are numbered and appear in order of importance. Following the requirements will be use cases detailing how users shall interact with the system, not listed in any particular order. Beneath each use case will be a table that provides more details to the associated diagram. Each use case will also have a priority level from 1 to 5, 5 being the highest priority and 1 being the lowest priority.

- 1. The system shall allow users to filter the public library by the parts of a stat block, represented visually by buttons.
- 2. The system shall allow users to add stat block parts to their filter by clicking on buttons
- 3. The system shall allow users to remove stat block parts from their filter by clicking on previously selected buttons
- 4. The system shall allow users to sort the public library by recently added public creatures
- 5. The system shall allow users to export stat blocks to a pdf
- 6. The system shall allow users to log in with their Frog God Games Account
- 7. The system shall allow users to access their own library
- 8. The system shall allow users to build creatures
- 9. The system shall allow users to customize each part of a stat block for a creature they create
- 10. The system shall allow users to edit creatures in their own library
- 11. The system shall allow users to add a clone of a creature to their own library
- 12. The system shall suggest "default" attributes during creature creation to expedite the process
- 13. The system shall allow users to request a creature in their own library to be made public
- 14. The system shall allow content admins to approve or deny creature publication requests.
- 15. The system shall allow account admins to freeze creature creation for specific accounts
- 16. The system shall allow users to filter the public library by author
- 17. The system shall allow users to search the public library for keywords
- 18. The system shall allow users to sort the public library alphabetically
- 19. The system shall allow users to filter their own library
- 20. The system shall allow users to sort their own library by recently added creatures
- 21. The system shall allow users to search their own library for keywords
- 22. The system shall allow users to sort their own library alphabetically
- 23. The system shall allow users to filter their own library by author



Number	1	1		
Name	Access	Access Public Library		
Summary	A com	mon user is able to access the public library of content		
Priority	3	3		
Preconditions	A com	A common user is able to access the website		
Postconditions	A com	A common user is able to view the content in the public library		
Primary Actor	Common user			
Secondary Actors	None			
Trigger	A common user enters the website			
Main Scenario	Step	Action		
	1	The system displays the public facing front page		
	2	The common user selects the "Public Library" tab		

	3	The system displays the public library of content
Extensions	Step	Branching Action
Open Issues	Lack of access to current database	

Number	2		
Name	Search	Search Public Library	
Summary	A com	mon user is able to search the public library for content	
Priority	3		
Preconditions	A com	mon user is able to access the public library	
Postconditions	The co	ommon user is able to view a library of searched content	
Primary Actor	Comm	Common User	
Secondary Actors			
Trigger	The common users selects the "Public Library" tab		
Main Scenario	Step	Action	
	1	The system displays the public library of content	
	2	The common user enters a search term into the search box	
	3	The system displays content related to the search term	
Extensions	Step	Branching Action	
Open Issues	Lack o	Lack of access to current database	

Number	3
Name	Filter Public Library
Summary	Allow common users to filter the database based on stat blocks and creature

	attribu	attributes.	
Priority	3	3	
Preconditions	User a	ccesses public database	
Postconditions			
Primary Actor	Comm	on User	
Secondary Actors			
Trigger	User s	User selects filter button	
Main Scenario	Step	Action	
	1	System returns a viable list of creature stats to search	
	2	User selects parts of a stat block to search	
	3	System returns list of creatures with matching stats	
	4	User selects creature	
Extensions	Step	Branching Action	
Open Issues	Lack of access to current database		

Number	4		
Name	Sort Public Library		
Summary	Allow common user to sort public creature creatures alphabetically or chronologically		
Priority	2		
Preconditions	Common User accesses public database		
Postconditions	A list of sorted creatures are returned to the user		
Primary Actor	Common User		
Secondary Actors			
Trigger	User selects "sort by" button		
Main Scenario	Step Action		

	1	System returns alphabetical and chronological option
	2	User selects
	2a	User selects alphabetical option
	2b	User selects chronological option
	3	System returns list of creatures based on sort option
Extensions	Step	Branching Action

Number	5	5	
Name	Accou	Account Access	
Summary	A user	is able to access their account through their Frog God Games account	
Priority	5		
Preconditions	The Co	ommon User already has a Frog God Games Account	
Postconditions	The us	The user is able to access Logged In User privileges and their own content	
Primary Actor	Comm	Common User and Logged In User	
Secondary Actors	Common user and Logged in User		
Trigger	A common user clicks "sign in" button		
Main Scenario	Step Action		
	1	The system displays the sign in section	
	2	The user types in their username and password	
	3a	The system grants the user logged in user stats and access to that accounts local library	
	3b	The system returns an error "Incorrect username or password"	
Extensions	Step	Branching Action	
	3a	User clicks "my own library" Access Own Library	

	3a	User clicks "Create my own creature" Generate Creature
Open Issues	Database schema(s)	
	Design	n and layout of front end
	Lack o	f access to the current database

Nicerahan			
Number	6		
Name	Access	Access own library	
Summary	Allows	Logged In User to access their own library of unpublicized creatures	
Priority	5		
Preconditions	Accou	nt Access	
Postconditions	User s	ees their library of creatures	
Primary Actor	Logge	d In User	
Secondary Actors			
Trigger	User logs in and selects "own library"		
Main Scenario	Step	Action	
	1	System presents user with created library	
	2	User sees their own library of creatures	
Extensions	Step	Branching Action	
8	2	Filter own library	
7	2	Search Own Library	
10	2	Sort Own Library	
Open Issues	Database schema(s)  Design and Layout of front end		
	Lack o	Lack of access to current database	

Number	7			
Name	Search	Search Own library		
Summary	The lo	gged in user is able to search their own library for content		
Priority	3			
Preconditions	The lo	gged in user is able to access their own library of content		
Postconditions	The lo	gged in user is able to view their library of searched content		
Primary Actor	Logge	d in user		
Secondary Actors	None	None		
Trigger	The lo	The logged in user clicks "Private library" tab		
Main Scenario	Step			
	1	The system displays the private library of the user		
	2	The logged in user enters a search term into the search box		
	3	The system displays content related to the search term from the users private library		
Extensions	Step			
		N/A		
Open Issues				
	Databa	ase schema(s)		
	Design	and layout of front end		
	Lack o	Lack of access to the current database		

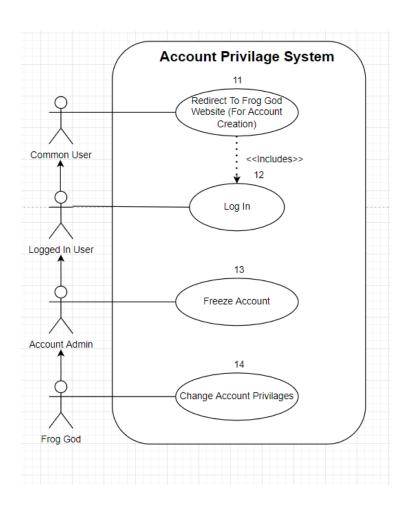
Number	8	
Name	Filter Own Library	
Summary	A logged in user is able to filter their own library based on stat blocks and creature	
Priority	3	
Preconditions	Logged in user is able to access their private library	
Postconditions	The logged in user views a filtered version of their private library	
Primary Actor	Logged in user	

Secondary Actors	None	None	
Trigger	The lo	gged in user clicks "private library" tab	
Main Scenario	Step		
	1	The system displays the private library of the user	
	2	User selects stat blocks to filter creatures	
	3	The system displays a list of creatures matching selected stat block	
Extensions	Step		
		N/A	
Open Issues			
	Databa	Database schema(s)	
	Design	Design and layout of front end	
	Lack o	Lack of access to the current database	

Number	9			
Name	Creat	ture Generation		
Summary	A Log	gged In User creates a creature by filling out the parts of a stat block		
Priority	4			
Preconditions		ser is logged in and has access to their account. The user is looking at the rate creature" page		
Postconditions	Creatu	re is created locally in user's own library		
Primary Actor	Logge	ed In User		
Secondary Actors	None	None		
Trigger	User	User selects "edit creature" from home page		
Main Scenario	Step	Action		
	1	The system displays sample of what the creature's page will look like		
	2	User edits any parts of the stat block they would like to and presses "confirm"		
	3	System displays message confirming the creation of a creature		
Extensions	Step	Branching Action		

	3a	User clicks "Edit Creature" after returning to their own library: Edit Creature in Local Library
	3b	User clicks "Request Publication" Request Creature to Global Library
Open Issues		
	The N	Moonwake Development team can not access the database at this time $\checkmark$

Number	10			
Name	Sort Own Library			
Summary		ed in user is able to sort their own library based alphabetical order or ological order		
Priority	1			
Preconditions	A logge	ed in user is viewing a search or filtered list of creatures		
Postconditions	The lo	gged in user has soreded a filtered or searched list of creatures		
Primary Actor	Logge	d in user		
Secondary Actors	None			
Trigger	The lo	gged in user clicks "sort"		
Main Scenario	Step			
	1	The system displays the list to be sorted		
	2	User selects what they want to sort the list by		
	3	The system displays the list in the selected sorted order		
Extensions	Step			
		N/A		
Open Issues				
	Databa	ase schema(s)		
	Design	Design and layout of front end		
	Lack o	Lack of access to the current database		



Number	11	11		
Name	Redire	ect To Frog God Website (For Account Creation)		
Summary	Comm	on User creates account via Frog God Games website		
Priority	4			
Preconditions	Comm	Common user doesn't already have a Frog God Games account		
Postconditions	Comm	Common user becomes a registered user		
Primary Actor	Comm	Common user		
Secondary Actors	None	None		
Trigger	User clicks "Create Account" button on public facing front page			
Main Scenario	Step	Action		
	1	The system redirects the user to the Frog God Games website		

Extensions	Step	Branching Action
		N/A
Open Issues	How to use current Frog God account system	

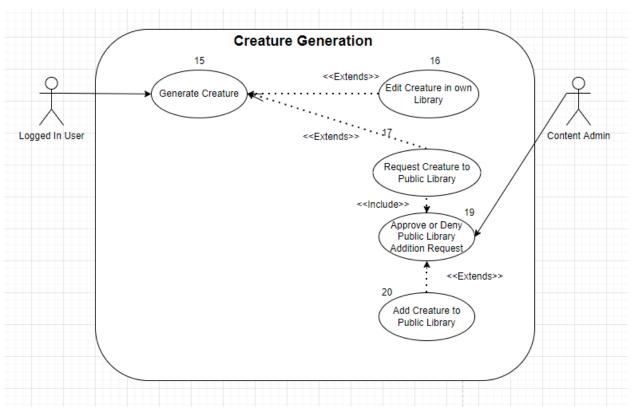
Number	12	12		
Name	Login	Login		
Summary	Comm	on user logs in to become a logged in user		
Priority	5			
Preconditions	Comm	on user already has a Frog God Games account		
Postconditions	Comm	on user becomes a logged in user		
Primary Actor	Comm	on user		
Secondary Actors	None	None		
Trigger	User clicks "login" from public facing front page			
Main Scenario	Step	Action		
	1	The system displays login page with email and password form		
	2a	User enters their Frog God Games account information		
	2b	User clicks "cancel" button		
	3a	The system displays "login successful" and redirects user to home page		
	3b	The system redirects the user to public front page		
Extensions	Step	Branching Action		
		N/A		
Open Issues	How	How to use current Frog God account system		

Number	13
Name	Freeze Account
Summary	Account Admin is able to freeze a users account
Priority	4

Preconditions	Accou	Account Admin is logged in to the website		
Postconditions	A user	A user is no longer able to create creatures using their account		
Primary Actor	Accou	nt Admin		
Secondary Actors	None			
Trigger	Accou	nt Admin clicks "Users" tab		
Main Scenario	Step	Action		
	1	The system displays a list of all user accounts		
	2a	Account Admin selects a user from the list		
	2b	Account Admin searches for a user from the list and selects a user		
	2c	Account Admin selects a user from flagged users list		
	3	The system displays menu of actions		
	4	The Account Admin selects freeze account		
	5	The system displays "Account Frozen" message		
Extensions	Step	Branching Action		
		N/A		
Open Issues	How to use current Frog God account system			

Number	14	14		
Name	Chang	e Account Privilege		
Summary	A Frog	God is able to change the account privileges of a users account		
Priority	3			
Preconditions	A Frog God is logged in			
Postconditions	The account privileges of a user are changed			
Primary Actor	Frog God			
Secondary Actors	None			
Trigger	Frog God clicks "Users" tab			
Main Scenario	Step	Action		
	1	The system displays a list of all user accounts		

	2a	The Frog God selects a user from the list
	2b	The Frog God searches for a user from the list and selects a user
	3	The displays menu of actions
	4a	The Frog God selects "Add Account Admin privileges"
	4b	The Frog God selects "Add Content Admin privileges"
	5a	The system displays "User is now an Account Admin"
	5b	The system displays "User is now a Content Admin"
Extensions	Step	Branching Action
		N/A
Open Issues	How to use current Frog God account system	



Number	15			
Name	Creat	Creature Generation		
Summary	A Log	ged In User creates a creature by filling out the parts of a stat block		
Priority	4			
Preconditions	The user is logged in and has access to their account. The user is looking at the "generate creature" page			
Postconditions	Creature is created locally in user's own library			
Primary Actor	Logged In User			
Secondary Actors	None			
Trigger	User selects "edit creature" from home page			
Main Scenario	Step Action			
	1	The system displays sample of what the creature's page will look like		
	2	2 User edits any parts of the stat block they would like to and presses "confirm"		
	3	3 System displays message confirming the creation of a creature		

Extensions	Step	Branching Action	
	3a	User clicks "Edit Creature" after returning to their own library: Edit Creature in Local Library	
	3b	User clicks "Request Publication" Request Creature to Global Library	
Open Issues	The Moonwake Development team can not access the database at this time		

Number	16			
Name	Edit Creature in own Library			
Summary		Logged In User edits an already existing creature that has not yet been added to the database		
Priority	4			
Preconditions	User	is logged in, the creature being edited exists		
Postconditions	Edite	d creature will be updated to match edits		
Primary Actor	Logged In User			
Secondary Actors	N/A			
Trigger	User selects "edit creature" from home page			
Main Scenario	Step Action			
	1	System displays list of creatures stored locally that can be edited		
	2	User selects a creature from the list		
	3	3 System displays the form for editing selected creature		
	4	User fills out the form		
	5	5 System asks for confirmation		
	6	User selects "confirm"		
	7	System displays updated creature page		
	8	User sees updated page		
Extensions	Step	Branching Action		
	N/A			
Open Issues	The N	Moonwake Development team can not access the database at this time		

Number	17			
Name	Requ	est Creature to Public Library		
Summary		Logged In User submits a request to have a creature in their own library made public		
Priority	4			
Preconditions	User	is logged in, the creature being requested exists		
Postconditions	A request is sent to an admin to make User's creature public			
Primary Actor	Logged In User			
Secondary Actors	N/A			
Trigger	User selects "request publication" from home page			
Main Scenario	Step Action			
	1	1 System displays request form		
	2	2 User completes request form and presses "submit"		
	3 System displays message confirming their request has been sent			
	4 User sees confirmation message			
Extensions	Step	Branching Action		
		N/A		
Open Issues	The N	Moonwake Development team can not access the database at this time		

Number	19
Name	Approve or Deny Public Library Addition Request
Summary	An admin can approve or deny a request sent from a logged In user
Priority	4
Preconditions	User is an Admin, is Logged In, and the request being looked into exists
Postconditions	The user that sent the request will be notified of their approval/denial
Primary Actor	Admin
Secondary Actors	N/A

Trigger	Admi	Admin selects "view publication requests" from home page		
Main Scenario	Step	Step Action		
	1	System displays list of publication requests		
	2	Admin selects a request		
	3	System displays details of said request		
	4a	a Admin selects "approve"		
	4b	Admin selects "deny"		
	5a	System notifies admin and the user that sent the request that the request has been approved		
	5b	System notifies admin and the user that send the request that the request has been denied		
	6	Admin sees notification		
Extensions	Step	Branching Action		
	4a. 1	Upon approval, admin selects "make public" Add Creature to Public Library		
Open Issues	The Moonwake Development team can not access the database at this time			

Number	20		
Name	Add	Creature to Global Library Font change	
Summary	Adm	in creates a creature and publishes it to the global library	
Priority	4		
Preconditions	User must be an Admin, Admin must be logged in		
Postconditions	Creature will be published and visible in global library of creatures		
Primary Actor	Admin		
Secondary Actors			
Trigger	Admin selects "publish creature" from home page		
Main Scenario	Step Action		
	1 System displays creature creation form		

	2	Admin completes creature creation form	
	3	System asks for confirmation	
	4	Admin selects "confirm"	
	5	System displays message confirming creature has been created and published to the global library	
	6	Admin sees message	
Extensions	Step	Branching Action	
		N/A	
Open Issues	•	Lack of access to current database How to communicate with database Database schema(s)	

## 3 Non-Functional Requirements

The Front End of Frog God Games creature database will offer a fast and easy to use front end for the public to view, create, and share creatures with each other as well as export a PDF datasheet of selected creatures. The following non-functional requirements are to describe performance requirements, safety requirements, security requirements, privacy requirements, and software quality attributes. Each requirement will have a priority level from 1 to 5, with 5 being the highest priority and 1 being the lowest.

#### 3.1 Performance Requirements

- **REQ1:** Priority Level 5: The system shall be available 23 hrs a day, 7 days a week to all users excluding when an exterior tool is down (Suchs as AWS or Shopify)
- **REQ2:** Priority Level 4: The system shall not take more than 1 seconds to respond to a user request 90% of the time<sup>1</sup>
- **REQ3:** Priority Level 2: The system shall not take more than 5 seconds to export a PDF of stat blocks for selected creatures
- **REQ4:** Priority Level 4: The system shall not request information from the server unless specifically requested by the user

#### 3.2 Safety Requirements

- **REQ5:** Priority Level 1: The system shall flag inappropriate terms using a profanity detector to warn admins of possible inappropriate content before publication.
- **REQ6:** Priority Level. The system shall require an admin check in order to accept a users request to publicize their creature

## 3.3 Security Requirements

• **REQ7:** Priority Level 5: The system shall prevent unwanted changes to the database by individuals without proper permission

# 3.4 Privacy Requirements

- REQ8: Priority Level 2: The system shall not collect location data Not sure this is
- REQ9: Priority Level 1: The system shall not collect use time dat meaningful. What

Not sure this is meaningful. What is the size of "potential users"

## 3.4 Software quality attributes

• **REQ10:** Priority Level 3: The system shall allow 90% of potential users to use the application at once

# 3.5 Non-Functional Requirements Testing

- **TEST1:** A test to see if the system is responsive every 30 minutes by pinging every part of the system
- **TEST2:** A selenium tester will test the system as a user for responsiveness every 30 minutes by taking an action on the system
- **TEST3:** A selenium tester will test the system as a user by attempting to export a creature to PDF every 30 minutes
- **TEST4:** A test will count the number of times the server is pinged from a developer version that has no pings in that time frame.
- **TEST5:** The system shall make a creature with an inappropriate string as a name and see if the profanity detector picks it up

I'll need this term explained. Also if this pinging/testing is a permanent function.

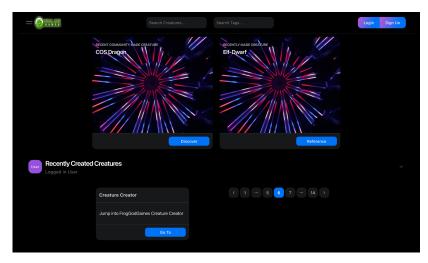
- **TEST6:** A test to see if the system is responsive every 30 minutes by pinging every part of the system
- TEST7: A test to ensure that the common user can not alter the public database
  - o **TEST7.1:** A test to ensure that a content admin can not freeze accounts
- TEST8: A selenium tester that will test to see if the server requests location data
- TEST9: A selenium tester that will test to see if the server requests use time data
- **TEST10:** A tester will see if the system completes

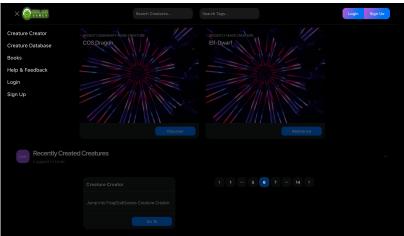
We add discussed and I would like to add back in a fuse that freezes an account from uploading data if a certain rate and volume quantity is exceeded. We'd also discussed having a volume cap for non-paying users, with pay per month option for users that want to store more data (including possibly their own art).

# **4 User Interface**

A demo application is available on our development Github repository.

Provided screenshots describe a possible user interface to maximize user experience, while at the same time making the application simple to use.





We've discussed this prototype and expect that it will change significantly.

#### **5 Deliverables**

Deliverables include everything that will be produced during this project. Deliverables include documents as well as source code and the final product. The following table lists out the deliverables that are expected to be produced from this project. The table specifies the name of the deliverable as well as the date each deliverable will be produced by and the format that it will be available as.

Deliverable:	Format:	Date:
System Requirement Specifications	Hardcopy/PDF	10/20/22
System Design Document	Hardcopy/PDF	11/1/22
User Interface Design Document	Hardcopy/PDF	11/29/22
Critical Design Review Document	Hardcopy/PDF	12/15/22
User Manual	Hardcopy/PDF	Spring 2023
Administrator Manual	Hardcopy/PDF	Spring 2023
Bi-Weekly Reports	PDF or JPEG	Bi-Weely Starting 10/25/22
All Source Code	Electronic via GitHub	Updated continuously
The Final Product	Website	Spring 2023

## 6 Open Issues

Open issues are issues that have been raised and do not yet have a conclusion. These issues will be addressed later in the development process. Some of these issues are included below.

- Lack of access to current database
- How to communicate with database
- Database schema(s)
- How the front end will be hosted
- Final decision regarding language for front end
- Design and Layout of front end
- ORM (Object Relational Mapper) for JavaScript/TypeScript use for database (for security to avoid sql injections)
- How to use Frog God Website accounts

# **Appendix A: Agreement Between Customer and Contractor**

By signing this document you are agreeing that all of the content above is accurate. You agree that the software specifications are accurate. The relations between the users as well as the terminology is accurate. All major functional and non-functional requirements will be implemented.

- In the future, if there are any updates or changes to this document that are agreed upon by the team the following procedure will take place. A review will be held with the client and the team members with the updated document. If, after the review, both parties agree upon the changes then the document must be resigned by each member before official use.

PRINT	SIGNATURE	DATE
Customer: Edwin Nagy	X	Date <u>10/24/2022</u>
Team:  Mathlew Vic	es as noted in document.	Virgin [0/25/2622
Cedric Fahey	Cedital Fa	Date_10/25/2022
David DiFrana	w Sanib Do	nuile Date W25/2022
rista Zieper	* Justan	34 peet 10/25/2007 2
audon Thibodean	landler t	huddles Date v/26/2022

# Appendix B: Team Review Sign-off

By signing this document each member of the development team determines that the collection of information withheld inside it has been reviewed and agreed upon. No member wishes to alter or change how it currently exists and there are no major points of contention within the team.

PRINT	SIGNATURE	DATE
X <u>Matthew Virgin</u> Comments: N/A	x_ <u>Matthew Virgin</u>	Date <u>10/20/2022</u>
X <u>Tristan Zippert</u> Comments: N/A	x_ <i>Tristan Zippert</i>	Date <u>10/20/2022</u>
X <u>Landon Thibodeau</u> Comments: N/A	x <u>Landon Thibodeau</u>	Date <u>10/20/2022</u>
X <u>Cedric Fahey</u> Comments: N/A	x <i>Cedric Fahey</i>	Date <u>10/20/2022</u>
X_ <u>David DiFrumolo</u> Comments: N/A	x <u>David DiFrumolo</u>	Date <u>10/20/22</u>

# **Appendix C: Document Contributions**

- Matt Virgin: Use Case Descriptions, 33%. Functional Requirements, 60%.
- David: Non-Functional Requirements 30% Appendix B 100%. Appendix A 50%
- **Cedric:** Use case Diagrams 100%, Use Case Descriptions 33%. Functional Requirements, 20%. Appendix A 50%
- Landon: Non-Functional Requirements 70%, Use Case Descriptions 33%, Open Issues 100%, Deliverables 20%
- **Tristan:** Deliverables, 20%. User-interface, 100%. Functional Requirements, 35%, Introduction 100%, Use Cases: 30%