Logo

Description automatically generatedGraphical user interface

Description automatically generated with medium confidence

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| Beat Box  High Sodium Industries  Date:  January 31st, 2023  Team Members  Ashlee Kang  Rayan Bouaazzi  Micheal Kempner  Michael Ukoha |
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# Purpose of the Document

This document details the agreement between the client (High Sodium Industries) and the vendor (Group 3 Enterprises). All the names mentioned in this document shall refer to either the client or the vendor as referred to in this section. The purpose of this document is to present a Statement of Work (“SOW”) that outlines Group 3 Enterprises’ roles, tasks, dependencies, and deliverables at a high level for deployment of services to support a planned launch by High Sodium Industries.

The project is an audio generator for use in a web browser or dedicated mobile applications. The price to deliver this solution is $252,112 USD. Details of this price are listed in the Payment Milestone section of this document.

Performance of the services described in this SOW shall be governed by the terms of the proposed Supply and Services Agreement #7178763085 dated January 31, 2023 (“Agreement”) between Group 3 Enterprises and High Sodium Industries.

No obligation to provide the service described herein arises unless an order for the service, incorporating the terms of an agreed SOW, has been placed by the customer under a signed governing agreement in place between Group 3 Enterprises and High Sodium Industries and accepted by Group 3 Enterprises. Group 3 Enterprises’ performance of the Services described below is subject to the assumptions, exclusions and other conditions identified in this document. In the event of a conflict between the terms of the Agreement and this SOW, the terms of this SOW shall prevail with respect to the subject matter contained herein.

# Scope of Work

Company Group 3 Enterprises will provide an audio-generating application in a collaborative environment to meet the business objectives of High Sodium Industries. The audio-generating application will be interactive, easy to use, and will meet the marketing requirements of High Sodium Industries. The platform will be available via Internet Browser or Mobile Application

Group 3 Enterprises will gather the Requirements, Analyze, Design, Develop, Test, Deploy, and Deliver the audio-generating application according to the guidelines stated in the SOW. Group 3 Enterprises will also provide a detailed list of deliverables, processes involved, end products, review, and the approval process.

## Components

### Front End:

User Interface and Design: Overall appearance and interaction of the application as a result of proper use and integration of elements such as - logo, the navigation menus, layout, images, etc.

Navigation: The interactions with the user interface required by the user to reach each feature of the application.

End-User Profile: This includes the setting up of an account on the application and managing the profile (name, address, contact details, etc.).

Clip Generator: A page where the user can enter a character string into a text box which will be used as a prompt for an AI to generate an audio clip. The user can then accept the clip as is or change their prompt to generate a new clip. The user may choose to use any portion of the current clip to be used as input for the new clip.

Clip Management: A page available to clients with permission to manage a user’s personally generated audio clips. Here the user can modify or delete their audio clips. Users may also select an image to represent their audio clips.

User Store: A marketplace page where users may sell, license, or give away any of their personally generated audio clips. High Sodium Industries shall receive a fee for every sale. The fee will be paid by the seller at the time of sale. The fee amount will vary depending on seller’s listed price.

Search Page: A specialized list of clips made available by users generated by a character string entered by the user into a text box.

Explore Page: A navigational page which can link to available audio clips based on user preferences, data analysis, and paid promotion.

Clip Player: A lightweight audio player that will always be present and available to the user. Manipulates volume, and links to active clip, creator, or album.

Search Bar: A search bar that will always be present and available which allows user input and opens the search page.

### Back End:

Clip Player: This is the functional player that will be embedded into the webpage allowing for simultaneous browsing on the High Sodium Industries platform for additional content.

User Accounts: Each user can manage artists if another user who is authorized has given them permission. All users have access to “end-user” features. Some users may have elevated access to “subscriber” features on an artist-to-artist basis.

Artists: A collection of data including clips, albums, and a list of subscribers.

Purchase: Ability to safely process credit-card transactions over the internet for purchases. Group 3 Enterprises will not be building a payment component. It will recommend that High Sodium Industries contact their banking institution for a secure processing option, which will then be integrated into the web application.

E-Commerce: Integration with existing e-commerce platforms so that they can be linked to creators and their products displayed on the creator’s page.

Site Search: Simple search option to browse through the available content, creators, and genres to produce relevant results through the search page.

Contact forms: Forms will be redirected as an email (as provided by Group 3

Enterprises) to the High Sodium Industries administrator in charge of the website.

Online databases: Group 3 Enterprises will be using Amazon Simple Storage Service (AWS S3) to store, search and sort all of the database records regarding music and content, as provided by High Sodium Industries.

Log in and access: Group 3 Enterprises will require High Sodium Industries to help set up an SSO service that is used by High Sodium Industries.

Advertiser Content: This functionality will allow the platform to play ads at random to basic account users in order to maintain the profitability of the platform.

## Out of Scope

As noted above, all activities that are not explicitly called out in the Section “Scope of Work”, are considered out of scope. These out-of-scope activities include the following commonly overlooked areas:

* Anything with regard to the content to be played on the platform or the contracts between High Sodium Industries and any creator or creator representative.
* Photo-shoot / photo-editing of the album and creator images.
* Customization of the design of the webpage.
* Maintaining the whole solution after the closing phase.
* Installation and troubleshooting of third-party software agents, including antivirus and backup software.
* Complying with the federal and local law regarding the use of the solution.
* Anything with regard to how users may incorporate generated clips into other media such as music, videos, etc.
* Anything with regard to uploading audio for use as inputs. Beat Box will in no way accept user audio as a means of generating audio clips.
* Licensing of generated clips. High Sodium Industries is advised to consult with legal professionals regarding options to license user-created clips.

# Services Rendered

## Requirement Phase

**Objective**

Group 3 Enterprises consults with the client to gather all requirements and use these to analyze the client’s needs and create an initial document. The initial phase requires the team to work closely with the customer to determine the customer's requirements for the product. The requirements phase identifies the functionality, performance levels, and other characteristics which the product must satisfy in order for it to be acceptable to the customer.

Group 3 Enterprises will conduct the Stakeholder Analysis for the project and based on that, will schedule interviews with the stakeholders to gather requirements. Post the interview process, requirements and evidence will be reviewed to draft the Requirements Document.

**Key Deliverables:**

* + 1. Stakeholder Mapping
    2. Stakeholder Interview Questions / Responses
    3. Work Breakdown Structure
    4. Epics / Features / User Stories
    5. Wireframe Designs / Working prototype
    6. Requirement Specification Document
       - Snow Cards (Functional and Non-Functional)
       - Context Diagram
       - Business and Product Use Cases

## Design Phase

**Objective**

Group 3 Enterprises will deliver a project plan for the High Sodium Industries audio-generating application. This document will detail how we design the application, the technology we use to deliver the three-tier application: front-end, back-end, and database.

It plans how Group 3 Enterprises implements the front-end website based on the client input from requirement document, design documents, and the rationale behind such design. The section on back-end technology contains information on how it works with front-end, handle information from customer and processing transactions. In addition, it contains information on how we handle security issues.

The database section contains the type of the database, the schema, benefits and limitations of using such technology in terms of the number of requests, response time, disaster recovery, and redundancy.

**Key Deliverables:**

1. Site Map
2. Finalized design of front-end website
3. Finalized design for back-end and database
4. Finalized choice for deploying
5. End to End Design Document

## Development Phase

**Objective**

Group 3 Enterprises will create a project based on previous plans and instructions from the client. At each milestone, Group 3 Enterprises shall complete the planned items and deliver them to the client. All the documents from the previous phase will be transformed into an actual solution.

In the case of items not delivered due to unforeseen circumstances, the milestones shall be renegotiated. The work is divided into modules/units and actual coding is started. In this phase the code is produced so it is the main focus for the developer. This is the longest phase of the software development life cycle.

**Key Deliverables:**

* + 1. Working software for front-end
    2. Working software for back-end
    3. Script for setting up database
    4. Unit tests
    5. Bug Fixes

## Testing Phase

**Objective**

Group 3 Enterprises shall test the Audio-generating application solution against the requirements detailed in the requirement documents and ensure the least amount of bugs remain in the system. The testing ensures the solution delivers all the features required and it can operate without any major fault.

Group 3 Enterprises shall conduct integration testing for the three components: front-end, back-end, and database. Group 3 Enterprises shall also conduct user acceptance testing (UAT) for the Audio-generating application solution and compile the testing report to present to the client for review and approval.

**Key Deliverables:**

* + 1. Testing Plan
    2. Test Results
    3. Execute Test Cases
    4. Final Coding Package

## Deployment Phase:

**Objective**

After the team tests the product and the product passes each testing phase, High Sodium Industries will move on to the deployment phase. In the deployment phase, the project team passes the testing of the product, and the product is ready to go live. The team will deploy the website on the AWS S3 servers and conduct another test to ensure successful deployment. The product will then be ready to be used in a real environment by all end users of the product.

**Key Deliverables:**

1. Deployed website
2. Working URL(with domain name)
3. Source Code

## Closing Phase: Project Hand-off, Post-Project Completion Support Plan

**Objective**

Group 3 Enterprises delivers the final working code base, the implemented project on a working server. Group 3 Enterprises also provides a checklist based on the project plan and demonstrate that the implemented project contains information on how it satisfies the requirement from clients.

The client training plan and project manual will be delivered to the client. This contains details on how the client should access and use the functionalities of the project at a high level. The Project Manual contains information for changing the code base at a low level, code organization, schema and documentation on the implementation. In addition, it contains contact information for Group 3 Enterprises support and web-hosting service should the client need to contact such service.

The Post-Completion Support Plan lists the level of support that we plan to provide past project completion, and other levels of support and pricing should the client choose Group 3 Enterprises for continuous support.

The Disaster Recovery Plan provides the roadmap to restoring the project should the client encounter unforeseen circumstances and need to redeploy the Audio-generating application solution.

**Key Deliverables:**

* + 1. Client training plan
    2. Project Manual
    3. Post completion support plan
    4. Disaster Recovery Plan

# Customer Responsibilities, Assumptions and Dependencies

* Temporary identification and access to High Sodium Industries buildings to Group 3 Enterprises employees for the duration of the project.
* High Sodium Industries hardware (laptops/chargers) provided by High Sodium Industries for the development of the project.
* Email account with domain @highsodium for all Group 3 Enterprises employees. This includes support staff.
* Access to High Sodium Industries Wi-Fi network for all Group 3 Enterprises employees for the duration of the project.
* Access to High Sodium Industries production environment (server) during deployment phase of the project.
* A reliable point of contact for the project manager of High Sodium Industries.
* Two High Sodium Industries system administrators with whom Group 3 Enterprises developers may interact and obtain the necessary information and resources to build services.
* Sufficient knowledge transfer sessions to understand business requirements which will help in designing database schema and tables.
* Provision of music content, images, descriptions, and credits of music items on a daily basis. The content will strictly be that which High Sodium Industries has legal possession. All content will be used as input for generation and must therefore be free of copyright issues.
* Approval to use third party payment gateways API’s like PayPal, Visa, MasterCard, etc. as provided by the High Sodium Industries banking institution.
* Timely payment of bills from Amazon for the usage of Amazon S3 storage. The number of tables and data (the number of users) is estimated by High Sodium Industries and Group 3 Enterprises by a mutual agreement. If data scales in the future, pricing meetings will be conducted to discuss AWS S3 storage and pricing control.
* Sufficient server space provided by High Sodium Industries in order to host the Website Guidelines from High Sodium Industries in designing, implementing and deployment a new solution.

# Acceptance Criteria

Group 3 Enterprises will notify High Sodium Industries upon completion of the services by providing the notice of completion. High Sodium Industries will have (15) days from the notice day to notify Group 3 Enterprises if any requirements are not included in the Statement of Work; such services shall be deemed accepted by the earliest of:

1. The passage of ten (10) days from the date of notice of the completion with no notice of non-conformance from the client, High Sodium Industries
2. High Sodium Industries’s actual acceptance (it being contemplated that Customer will use the letter of acceptance (LOA) when accepting such Services)
3. Testing of all Requirements have been completed and test results meet the following defect acceptance criteria.
   * Zero severity 1s
   * Fewer than three severity 2s
   * Fewer than five severity 3s
   * Fewer than ten severity 4s
4. Client’s use of any part of each Service or any result (or deliverable) of each Service, whether or not any revenue is generated by the Client, would constitute acceptance within (15) days.

# Pricing / Payment Milestones

Fees shall be paid as the Deliverables identified below are produced and accepted by High Sodium Industries in accordance with the acceptance procedures described herein.

|  |  |  |
| --- | --- | --- |
| **Milestones** | **Description** | **Price (in USD)** |
| M01 | Requirements Phase | $130,720 |
| M02 | Design Phase | $32,110 |
| M03 | Development Phase | $231,540 |
| M04 | Testing Phase | $80,940 |
| M05 | Deployment Phase | $37,200 |
|  | **TOTAL** | **$512,510** |

# Agreement

This SOW and the non-conflicting terms and condition of the Agreement constitute the entire agreement between the Parties and supersede all prior oral or written negotiations and agreements regarding the subject matter herein. Any modification or addition to this SOW shall be in writing and signed by authorized representatives of both parties.

IN WITNESS WHEREOF, the parties hereto have caused this SOW to be executed by their duly authorized representatives.

|  |  |
| --- | --- |
| **“High Sodium Industries”** | **“Group 3 Enterprises”** |
|  |  |
| Signature 1: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Signature 1: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Name 1: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Name 1: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Signature 2: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| If applicable: | Name 2: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Signature 3: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Signature 2: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Name 3: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Name 2: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Signature 4: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Name 4: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Signature 5: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Name 5: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  |  |
|  | Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
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