Software Requirements Specification (SRS) Document - Version2

- **Team Number: 3**

- **Team Members**

  1. **Keval Jain (2021111030)**

  2. **Romica Raisinghani (2021101053)**

  3. **Pratham Priyank Thakkar (2021101077)**

  4. **Chirag Jain (2021101100)**

Brief problem statement

The problem that TheAtom is addressing is the lack of personalized meditation audio clips that cater to the unique preferences of each user. To solve this problem, TheAtom aims to develop a software that will empower their CMS team to create high-quality audio clips easily and efficiently.

The software will offer primarily two main features. First is the option to create new templates. One can customise their template based on the required characteristics. One should also be able to view, edit, and sync the templates. The second main feature is the creation of meditations. One can chose a template and select the corresponding snippets to create a meditation. There also are options for viewing and editing pre-existing meditations. Additionally, the software will provide customisation options such as the total duration of the audio clip and the level of silence desired.

By providing these features, TheAtom's CMS team will be able to create a vast array of personalized meditation audio clips that cater to the unique preferences of each user. This will enhance the overall meditation experience for users and differentiate TheAtom's offerings from other providers in the market.

In summary, the software will enable TheAtom to deliver a personalized meditation experience to users by allowing their CMS team to create customized audio clips easily and efficiently, resulting in an enhanced overall user experience.

Users profile

The users of the software product that we are creating will be the CMS team of TheAtom. They will be using the software through a web or a mobile application that is developed with React and Typescript for the frontend, with Airtable used as the database. The CMS team will be using the software to create personalized meditation audio clips for TheAtom's users.

Since the CMS team is comprised of employees of TheAtom, we can assume that they are familiar with using computers and such software. This would suggest that they have a good understanding of how to use web applications and the various features available in them.

The software is designed to be user-friendly and intuitive, which implies that it should not be difficult for the CMS team to use it to create personalized audio clips. The various features of the software, such as selecting a template, customizing the meditation script by choosing snippet groups and silence duration between each snippet, are all presented in a clear and concise manner, making it easy for the CMS team to navigate and utilize.

Moreover, the software is developed using React and Typescript, which are commonly used technologies in web application development. This means that the CMS team is likely to have some familiarity with these technologies and should not encounter any issues related to technical competence when using the software.

In summary, the CMS team of TheAtom will be using a web-based application developed with React and Typescript for the frontend, with Airtable used as the database, to create personalized meditation audio clips for TheAtom's users. As employees of TheAtom, we can assume that the CMS team is familiar with using

computers and such software, and the software is designed to be user-friendly and intuitive, making it easy for them to utilize all the features available in the software.

Project Modules

The high-level modules for the system can be classified into two main categories:

1. Frontend Module:

The Frontend module focuses on modernizing the user interface of TheAtom's meditation generation website. This module aims to provide a more personalized meditation experience different meditation groups and a template to allow the Atom CMS team to create various meditation clips that can be suggested to end-users. The Frontend module can be further divided into the following submodules:

- `Template UI` : This submodule provides a list of templates from the Airtable API's backend, with features such as duration level, silence level and guidance percentage.

- `Meditation Script UI` : This submodule provides corresponding meditation scripts for each template, with options for snippet group and silence length.

- `Downloading the resulting meditation snippet` : This submodule provides a download option for the stitched audio meditation script in the necessary .wav format.

2. Backend with Airtable API Module:

The Backend module runs concurrently with the Frontend module and focuses on ensuring that the new UI is compatible with the backend. This module is responsible for carrying out necessary store, get, update, and delete operations on the Airtable as needed to support the Frontend module.

Feature requirements (described using use cases)

Module 1: Frontend

Submodule 1: `Template UI`
<u>Features</u>:

1. Display a list of available templates with their names and descriptions: The user should be able to view a list of available meditation templates, with each template's name and description displayed. **(Release: R1)**

2. Display additional information for each template, such as its duration, silence level, guidance percentage, etc: The user should be able to view additional information for each template, such as its duration, silence level, guidance percentage, etc., so that they can make an informed decision when selecting a template for their meditation. **(Release: R1)**

3. Allow the user to select a template from the list for use in creating a new meditation: The user should be able to select a template from the list of available templates for use in creating a new meditation. When a template is selected, the user should be taken to the meditation script UI where they can customize the script as desired. **(Release: R2)**

4. Allow the user to create new templates and save them to the Airtable database: The user should be able to create a new meditation template by filling out a form with the necessary information (name, description, duration, etc.) and saving it to the Airtable database for future use. **(Release: R1)**

5. Allow the user to edit existing templates and update them in the Airtable database: The user should be able to edit an existing meditation template by selecting it from the list of available templates and updating its information. When the user saves their changes, the updated template should be saved to the Airtable database. **(Release: R2)**

6. Allow the user to sync the saved templates to enable them to be used for meditation creations. The user after editing a template, has the option to save it, which updates it into the database, but only after syncing could the new template be used to create further meditations. **(Release: R2)**

7. Allow the user to "save as draft" the templates which is the same as negating the changes and reloading the page. This option is provided to a user after he edits the template and wants to discard his changes. **(Release: R2)**

User stories:

As an Atom CMS team member:

1. I want to be able to view a list of meditation templates, so that I can choose one to customize for my needs.

2. I want to be able to preview the meditation template, so that I can decide if it is right for me.

3. I want to be able to view the silence level for each template, so that I can choose a template that fits my needs.

Submodule 2: `Meditation Script UI`

Features:

1. Displaying a list of available meditation scripts for each template: The system should display all available meditation scripts for a selected template. Each script should be displayed with its name and a brief description. This allows users to easily browse and select the script they want to use. **(Release: R2)**

2. Providing options to choose a snippet group for each meditation script: For each meditation script, the system should allow users to choose a snippet group. The available options should be pulled from the Airtable database and displayed in a dropdown list. This allows users to customize their meditation experience by selecting specific snippets that resonate with them. **(Release: R2)**

3. Allowing users to adjust the silence length in each meditation script: The system should allow users to adjust the amount of silence between each snippet in a meditation script. This allows users to customize the pacing of their meditation experience. **(Release: R2)**

4. Allowing users to edit or delete existing meditation scripts for each template: The system should allow users to edit or delete existing meditation scripts for a selected template. Users should be able to modify the name, description, snippet group, and silence length for each script, or delete a script entirely if they no longer want it. **(Release: R2)**

5. Allowing users to add their own custom meditation script to a template: The system should allow users to create and save their own custom meditation scripts for a selected template. Users should be able to add a name, description, and sequence of snippets, as well as adjust the silence length between each snippet. This allows

users to tailor their meditation experience to their specific needs and preferences. **(Release: R2)**

User stories:

As an Atom CMS team member:

1. I want to be able to select a meditation template and choose from various snippet groups and silence lengths to create a custom meditation script that suits my specific needs.

2. I want to be able to edit the meditation script before downloading it, adding or removing snippet groups and adjusting silence lengths as necessary.

Submodule 3: `Downloading the resulting meditation snippet`
Features:

1. Allow users to download the audio meditation script in the necessary .wav format: The system should generate the audio meditation snippet based on the selected template and meditation script options, and provide a download button for the user to download the file. **(Release: R1)**

2. Providing a loading circle to show the progress of download: During the download process, the system should display a loading circle to indicate to the user that the download is in progress and the user should wait for the download to complete. **(Release: R1)**

3. Allowing the user to name the downloaded meditation snippet for easier identification: The system should allow the user to enter a custom name for the downloaded meditation snippet to help identify the file more easily after it has been downloaded. **(Release: R1)**

User stories:

As an Atom CMS team member:

1. I want to be able to download the meditation snippet in the desired format(.wav here) so that I can listen to it offline and at my convenience.

Module 2: Backend with Airtable API

Submodule: `Backend Integration`

Features:

1. Add new meditation: This feature allows the Atom CMS team to add new meditations to the Airtable database, which can be used to generate meditation snippets later on. **(Release: R2)**

2. Edit existing meditation: This feature allows the Atom CMS team to edit an existing meditation in the Airtable database, which could be useful if they want to make changes or corrections to the meditation. **(Release: R2)**

3. Delete existing meditation: This feature allows the Atom CMS team to delete a meditation from the Airtable database, which could be useful if the meditation is no longer relevant or accurate. **(Release: R2)**

4. Get meditation: This feature allows the Atom CMS team to retrieve a specific meditation from the Airtable database, which could be useful if they want to generate a snippet for that particular meditation. **(Release: R2)**

User stories:

As an Atom CMS team member:

1. I want to be able to connect to the Airtable API to store and retrieve data so that I can integrate the backend functionality with the frontend UI.

2. I want to be able to create, read, update, and delete templates and meditations in the Airtable database so that I can manage the content on the website.

3. I want my saved meditations to be stored in the backend so that I can access them later or download them again if needed.

4. I want the backend to ensure the privacy and security of my saved meditations so that my personal information is protected.

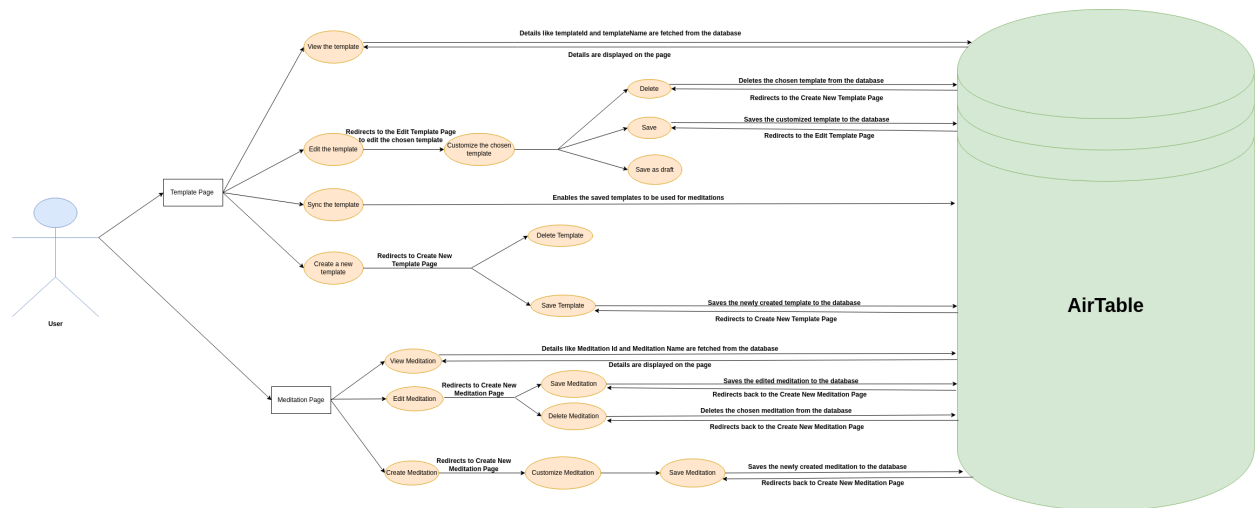**Feature requirements (described using use cases)**

No.	User Case Name	Description	Release

No.	User Case Name	Description	Release
1.	Template Selection	The user selects a pre-existing template to use as a base for creating a new meditation audio clip.	R1
2.	Template Creation	The user creates a new template from scratch by selecting and arranging snippet groups and determining the duration of silence between each snippet.	R1
3.	Customization of Template	The user makes modifications to a template by adding, removing, or rearranging snippet groups and adjusting the level of silence between each snippet.	R2
4.	Delete Template	The user deletes a template that is no longer needed.	R2
5.	Save Template	The user saves a template that has been created or modified.	R2
6.	Save Template as Draft	The user saves a template as a draft without publishing it, allowing for further modifications at a later time.	R2
7.	Meditation Script Selection	The user selects a pre-existing meditation script to use as a base for creating a new meditation audio clip.	R2
8.	Meditation Script Creation	The user creates a new meditation script from scratch by adding and arranging individual snippets.	R2
9.	Customization of Meditation Script	The user makes modifications to a meditation script by adding, removing, or rearranging individual snippets and silence durations.	R2
10.	Save Meditation	The user saves a meditation that has been created or modified.	R2

No.	User Case Name	Description	Release
11.	Delete Meditation	The user deletes a meditation that is no longer needed.	R2
12.	Stitching of Meditation Snippets	Stitch together the selected and/or generated meditation snippets into a complete audio file.	R2
13.	Downloading of Meditation Audio	The user downloads a completed meditation audio clip in a desired format.	R1

Use Case Diagram

The diagram shows the relationships between the different actors and use cases in the system. The main actors are the Administrator and the User. The Administrator manages the Airtable Database, which stores the information related to meditation templates, scripts, and user data. The User interacts with the system through several use cases, including Template Selection, Meditation Script Selection, Customization of Meditation Script, Stitching of Meditation Snippets, Downloading of Meditation Audio, and User Data Management. The Meditation App interacts with the Airtable Database for storing and retrieving information.

Following is the link to view the same diagram:

https://drive.google.com/file/d/1U65iO1VMZi3wwkmAOZwN5h3xzZMlH6wE/view?usp=sharing