



# **St. Michaels MyEndo**

**Mobile App (Android/iOS) and Admin Panel (Web App)**

Specifications Document

Version 1.0.0

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# Application Background

This mobile and web application is designed to support patients undergoing specific surgeries by delivering structured content before, during, and after their procedures. The mobile application serves as the patient-facing platform, where patients view content such as videos, audios, documents, and links. The web-based admin panel allows authorized users (admins) to create, organize, and manage this content efficiently.

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## Admin Panel Specifications

The admin panel consists of three main features:

1. **Modules Management**
2. **Playlists Management**
3. **Users Management**

Each of these features follows a consistent UX pattern: a main listing page, an empty state message (if applicable), detailed views, and form-based content creation/editing.

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### 1. Modules Management

#### Main Listing Page

- Displays a table with the following columns:
  - Module Name
  - Created by
  - Total Resources (This is a direct reflection of the number of content pieces uploaded against a module)
  - Keyword (Show maximum number of pills based on space available and the rest to be coupled together based on count. User can click on count to view all keywords in a pop up)
  - Status (Draft / Published)
  - Actions (View Details, Edit, Delete)

This page should have pagination applied to it, with 20 modules listed out on each page

Empty State Message

"No modules added yet. Start managing your modules byadding your first one"

Add New Module Form

Field Name	Type	Validations	Validation Messages
Module Name	Alphabetic	Required, 3–50 characters	<b>Required:</b> "Module name is required."  <b>Character Length:</b> "Module name must be between 3 and 50 characters."  <b>Alphabetic Only:</b> "Module name must contain alphabetic characters only."
Keywords	Multi-select dropdown	Optional	N/A
Description	Text	Required, max 500 characters	<b>Required:</b> "Description is required."  <b>Max Length:</b> "Description must not exceed 500 characters."
Banner	Upload	Required - image only	<b>Required:</b> "Banner image is required."

			<b>File Type:</b> "Only image files are allowed (e.g., JPG, PNG)."
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## Module Details Page

- Once a user adds a module a clicks on save, they will be default redirected to the added modules detail page.
  - This page will be empty
  - This module will be set a draft (no module with no content in it can be published)
- Over here a user will have all content uploaded listed out in the form of banner cards.
- By default 20 content pieces should be loaded automatically and the rest (if exist) should be loaded upon scroll through a lazy loader
- On the top of this page there will be the following buttons
  - Add New Content
  - Publish or Revert to Draft
  - Back
- The main header of this page should be the name of the module followed by the count of all the content pieces added
- No module can be edited in the slightest once published. It has to be reverted back to draft if any edits need to be made.
  - Show error message on edit or delete if tried after it's published, **"The module cannot be modified after it has been published, please revert to draft to make changes to it"**

## Empty State Message (Details Screen)

"No content added yet. Start managing your module by adding content for it"

## Add New Content Form

Field Name	Type	Validations	Validation Messages
Content Type	Single select pills	Required - Selections from Video, Audio, Document and Link	N/A
Name	Alphanumeric	Required 3–50 characters	<p><b>Required:</b> "Content name is required."</p> <p><b>Character Length:</b> "Name must be between 3 and 50 characters."</p> <p><b>Format:</b> "Name must only contain letters and numbers."</p>
Session No	Numeric	<p>Required</p> <ul style="list-style-type: none"> <li>- Auto suggest based on count of content (so if 4 content pieces have been uploaded already, for next content it should suggest 5 as order number)</li> <li>- Should not allow a session to be a number that exceeds the count of content. Display error message, <b>"The session number added exceeds the total number of content available in this module. Please add a number between 1-[count of content]"</b></li> <li>- Should allow a user to add a number that is already placed, in which case, all affected content pieces should be incremented by 1</li> <li>- The placement added here is the order in which the content should be</li> </ul>	<p><b>Required:</b> "Session number is required."</p> <p><b>Invalid Number</b> (non-numeric): "Session number must be a valid number."</p> <p><b>Exceeds Count:</b> "The session number added exceeds the total number of content available in this module. Please add a number between 1 and [count of content]."</p> <p><b>Allow Overlap With Reorder:</b> If a duplicate is entered, auto-increment affected content</p>

		displayed on the main listing and mobile app.	with a note or tooltip: <i>"This session number is already used. Other content will be reordered automatically."</i>
Description	Text	Required - max 500 characters	<b>Required:</b> <i>"Description is required."</i>  <b>Max Length:</b> <i>"Description must not exceed 500 characters."</i>
Banner	Upload	Required - image only	<b>Required:</b> <i>"Banner image is required."</i>  <b>File Type:</b> <i>"Only image files are allowed (e.g., JPG, PNG)."</i>
Upload / Insert Link	Upload	Required - based on selection allow upload of only that resource If link was selected upload changes to insert link	<b>Required:</b> <ul style="list-style-type: none"> <li><i>If Video/Audio/ Document: "Please upload a valid [video/audio/ document] file."</i></li> <li><i>If Link: "Please insert a valid link."</i></li> </ul>

Questionnaire	Radio button	<p>Required - Enable/Disable (default disabled)</p> <ul style="list-style-type: none"> <li>- If enabled a add question button is visible</li> <li>- Clicking the button opens a modal</li> <li>- A user can add their question and the various options for that question in the modal</li> <li>- The options can be rearranged</li> <li>- More options can be added by the add option button</li> <li>- Options can be deleted as well</li> <li>- To indicate the correct option, a user can select the correct one</li> <li>- More than one option can be marked as correct</li> <li>- A user can add multiple questions and can come into those questions to edit them as well</li> </ul>	<p>When enabled: Add Question Button appears</p> <p>Inside Modal:</p> <p>Question Text:</p> <p>Required: "Question text is required."</p> <p>Options:</p> <p>Must have at least 2 options: "Please add at least two answer options."</p> <p>Correct Option:</p> <p>Required: "Please select at least one correct answer." (if business logic requires)</p> <p>Reordering/Editing: Should support drag-and-drop with inline editing.</p> <p>Deletion: Show confirmation: "Are you sure you want to delete this option?"</p>
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## 2. Playlists

### Main Listing Page

- Displays a table with the following columns:
  - Playlist Name



- Created by
- Total Resources (This is a direct reflection of the number of content pieces added against a playlist)
- Keyword (Show maximum number of pills based on space available and the rest to be coupled together based on count. User can click on count to view all keywords in a pop up)
- Status (Draft / Published)
- Actions (View Details, Edit, Delete)

This page should have pagination applied to it, with 20 playlists listed out on each page

### Empty State Message

"No playlists added yet. Start managing your playlists by adding your first one"

### Add New Playlist Form

Field Name	Type	Validations	Validation Messages
Playlist Name	Alphabetic	Required, 3–50 characters	<b>Required:</b> "Module name is required."  <b>Character Length:</b> "Module name must be between 3 and 50 characters."  <b>Alphabetic Only:</b> "Module name must contain alphabetic characters only."
Keywords	Multi-select dropdown	Optional	N/A
Description	Text	Required, max 500 characters	<b>Required:</b> "Description is required."

			<b>Max Length:</b> "Description must not exceed 500 characters."
Banner	Upload	Required - image only	<b>Required:</b> "Banner image is required."  <b>File Type:</b> "Only image files are allowed (e.g., JPG, PNG)."
Content	Multiselect dropdown	Required <ul style="list-style-type: none"> <li>- Contains the names of all content pieces uploaded in each module</li> <li>- Searchable</li> <li>- User can select any content and that gets reflected below it in the form of their banner added</li> <li>- User can deselect the content by clicking on it again from the listing or by removing the check mark on the banner</li> </ul>	<ul style="list-style-type: none"> <li>- Must select at least one</li> </ul> <b>Required:</b> "Content has not been added to the playlist"

Once a playlist is added and saved, the playlist is saved as a draft.

### Playlist Details Page

- A user can redirect here from the listing.
- They can view all the content they added to this playlist here in the same way as the modules page
- Buttons available here:
  - Edit

- Publish / Revert to Draft
  - Back
- Can not be edited when published
  - **“The content cannot be modified after it has been published, please revert to draft to make changes to it”**

### 3. Users Management

#### Main Listing Page

- Displays a table with the following columns::
  - Full Name
  - Designation
  - Email Address
  - Phone Number
  - Status (Active / Inactive)
  - Actions (Edit, Delete — functionality TBD)

#### Notes

- No empty state: initial admin users are created by dev team from backend.

#### Status Definitions:

- **Inactive:** Invite sent but not yet accepted.
- **Active:** User accepted invite and logged in.
- **Resend Invite Button:** Appears after 24 hours if the user is still inactive.

#### Add New Admin Form

Field Name	Type	Validations	Validation Messages
Full Name	Alphabetic	Required, 3–100 characters	<b>Required:</b> <i>"Full name is required."</i>  <b>Character Length:</b> <i>"Full</i>

			<i>name must be between 3 and 100 characters."</i>  <b>Alphabetic Only:</b> <i>"Full name can only contain letters and spaces."</i>
Email Address	Email	Required, valid email format	<b>Required:</b> <i>"Email address is required."</i>  <b>Invalid Format:</b> <i>"Please enter a valid email address."</i>
Phone Number	Numeric	Required, 10–15 digits	<b>Required:</b> <i>"Phone number is required."</i>  <b>Invalid Format:</b> <i>"Phone number must contain only numbers."</i>
Designation	Dropdown (TBD)	- Optional (pending client confirmation)	N/A

Upon submission, an invite email is triggered. On acceptance, the user is redirected to a MyEndo onboarding page where they have to set their password. Upon setting the password, they are automatically logged in and will be marked as active.

## 4. Profile

This section is accessible by clicking on the bottom right profile icon. This will redirect the user to a replica of the Add user screen, with all their information added, They can edit their information here directly, if any changes are made, a “Save” button will get active. A user by default does not have a profile picture added, and can add one through this page.

# Mobile App Specifications

The mobile app was something Folio3 worked on as part of this project on V1. This section highlights all the new features and changes that Folio3 needs to make as part of this development lifecycle.

The key features of this development will be as follows:

1. Onboarding
2. Revamp of home page
3. Discover/Module Listing
4. Offline mode
5. Menstruation Calendar
6. Reminders

## 1. Onboarding

### Medicolegal / Research Disclaimer

- On the current section of Terms of Service, add a section for “Medicolegal / Research”
- Under this section the following content will appear:  
“Insert text”
- The flow for this screen will remain the same where we have two buttons at the bottom. Clicking on the “I Agree” button will allow the user to agree with all the sections shown above and move forward.

### Personalization

- A user after the terms of use will be directed here
- A user will be prompted with multiple questions here, where they will be allowed to select multiple answers for each question
- Every answer will be a key word that we would be linking modules and playlists with. Meaning any selection done here will reflect those modules and playlists that we linked with said keywords

- These selections will directly impact the “Recommended” section of the homepage only

The questions and their possible selections are as follows:

Question	Possible Selections

*Note: For each question one selection has to be made*

## 2. Home Page

### Main Listing

The main listing for this page will be divided into 3 sections

1. Recommended
2. Recent
3. Downloads

### Recommended

- This section will be at the top. It will display a mixture of playlists and modules
- The playlists and modules listed here will be based on the keywords being selected at the time of onboarding
  - Priority will be given to modules and playlists that match completely rather than just one keyword match (since every module and playlist will be linked with more than one keyword)
  - Precedence is to be given to modules over playlists
  - A total number of 10 thumbnails will be displayed on this tab
- The main listing for this will be done via the thumbnail/banner uploaded for the specific module or playlist at the time of creation via admin panel
- This section will be different for every user, based on the options selected at the time of onboarding
- Tapping on any specific module or playlist takes the user into the content listing for that particular module or playlist

## Recent

- This section will be only visible if a user watches a video, listens to an audio, downloads a document or visits a link
- Populates based on most recently interacted with
- Max of 10 content pieces can be available
- On tap should open the content drawer to allow user to watch now, listen now, etc

## Downloads

- This section will be only visible if a user has any downloads available
- Populates based on most recently downloaded content (audio or video only)
- Max of 10 content pieces can be available
- On tap should open the content drawer to allow user to watch now, listen now, etc
- Will be able to watch or listen even in offline mode
- There will be a more icon available, tapping on this redirects the user to their complete download gallery
  - This downloads gallery is accessible through the profile section

## Global Search

The global search allows users to search across all published modules and content pieces (videos, audios, documents, links) using keyword-based queries. This helps users quickly locate relevant information tailored to their needs or preferences.

### Access Point:

- The search icon is available in the top bar of the **Home screen**.
- Tapping the icon opens the global search interface.
- When a user types in his search criteria, do not pull results until the enter key is used to search. No need to show search results after every character input

### UI Behavior:

- Each result card displays:
  - **Title/Name**
  - **Thumbnail/Banner (if available)**
  - **Type icon (for content pieces)**
- Tapping a result:
  - For **Modules** → Navigates to module detail view.
  - For **Content Pieces** → Opens the content viewer (video/audio player, PDF viewer, or browser for links).

### Empty State Message

- If no results are found:
  - Header:** “No results found”
  - Sub-text:** “Try using different keywords or check your spelling.”

## 3. Modules Listing (Discover)

### Main Listing

- This is where all the modules created by the admins will exist
- On this page all modules will be listed out, visible by their name and banner/thumbnail
- These will be sorted alphabetically
- Tapping on any one will take the user to the inner content listing page of that module
- All modules marked published should be visible on this page
- When a user taps on any content piece a drawer will appear with details and a button to watch/listen/download/redirect
  - This drawer will also include a heart icon that allows the user to mark said piece as a favorite

### Content Screens



- These will exist only for videos and audios
  - Links will be redirected to via browser and documents will be downloaded and stored on their respective mobile devices
- After a video or an audio of a module ends a questionnaire will be displayed (if it exists for that content)
- For each question after an option is selected display to the user whether the option selected is correct or not
  - If incorrect, display the correct option as well
- After completing the questionnaire an icon will appear on the screen to indicate that the questionnaire has been completed
  - If left incomplete, then an icon indicating that will be shown
- After the audio or video ends, display a pop up to the user to rate the content
  - This will display before the questionnaire
  - This will be displayed only once after completion per video or audio

## 4. Offline Mode

If a user opens the application in offline mode (no internet connection) then the homepage will display only the downloads section with a message at the top stating “Offline Mode. No Internet connection”. If a user gets a stable connection afterwards, switch back to normal screen with “Internet connection restored” message at the top. This message will fade away after 3 seconds.

In offline mode if no downloads exist, then show the empty screen variation of the home page.

In offline mode, all pages will be accessible, however, no audio, video, document and link can be accessed. If a user tries to access these resources and they are in offline mode and those resources are not downloaded, then display “No internet connection, please try again later” error message.

## 5. Module Streak

**Location:**

Visible in the **left menu sidebar** of the mobile app interface at the bottom

## Functional Requirements:

### 1. **Streak Definition:**

- A "streak" is defined as viewing *any content* (video, audio, document, or link) from a module on *consecutive days*.
- Multiple views in a day do not increase the streak count.

### 2. **Trigger Point:**

- The streak counter increments by +1 **only once per calendar day**, per module, when the user views at least one content piece from that module.

### 3. **Sidebar Display:**

- Each module in the sidebar includes a **streak icon and counter** (e.g., 🔥 3 Days).

### 4. **Reset Rules:**

- If the user skips a day without viewing any content from the module, the streak resets to **zero** for that specific module.

### 5. **Start Condition:**

- A streak starts at 1 when the user views any content in the module for the first time or after a reset.

## 6. Menstruation Cycle

### Calendar UI

#### Monthly View

- Shows a **grid of the current month**.
- Users can **scroll horizontally** or use **← / → buttons** to navigate to past/future months.
- Tapping any **calendar date** opens a **contextual bottom drawer**.

## Quick Action Button

- Positioned at the **bottom of the screen**.
- Label: Add Symptoms
- Logs symptoms for the **current date**.

## Calendar Interactions

### Date Tap Drawer Logic

Scenario	Drawer Options
No period logged yet	- Mark Period Day 1 - Add Symptoms
Period start date logged, end date <b>not yet</b> marked	- Edit Period Dates - Add Symptoms
Period start and end date both logged (tapping on already logged dates)	- Edit Period Dates - Add Symptoms

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### Marking Period Start (Day 1)

- User selects a date and taps Mark Period Day 1.
- Drawer shows:
  - Date picker (defaults to tapped date)
  - Optional notes
  - Save button

Once saved:

- Selected date is:
  - Marked with **dotted border**
  - Labeled **“Day 1”**
- All **subsequent days** are:
  - **Highlighted in pink** (until the end date, if added)

- Period **cycle count** (Day 1, Day 2, ...) **continues until the next Day 1 is logged.**

## Editing Period Dates

- User can:
  - Change **Start Date** (pre-filled)
  - Enter **End Date** (optional)
  - Add notes

Once **End Date** is entered:

- That date is:
  - Marked with **dotted border**
- All dates **from Start Date to End Date** are:
  - **Highlighted in pink**
- **Day count for the cycle continues beyond End Date** until another start date is logged

## Cycle Tracking Logic

### Period Highlighting

- **Start Date to End Date** → pink highlight
- Once End Date is logged → pink stops
- If End Date is **not** logged → pink continues daily

### Day Count Tracking

- Starts at Day 1 (period start date)
- Increments **daily** across the calendar until the **next Day 1** is logged
- Visible as **“Day X”** under each date

## Symptom Logging

### Available for Any Date

- Triggered by:

- Add Symptoms button
- Tapping a date → Add Symptoms

## Symptom Log Drawer

- Shows a **checklist of symptom items**
  - Categories:
    - Menstrual flow
      - Spotting
      - Light
      - Medium
      - Heavy
    - Mood
      - Happy
      - Sad
      - Energized
      - Low energy
      - Calm
      - Irritable
      - Anxious
      - Other: \_\_\_\_\_
    - Pain [clickable options + scale]
      - Rating on scale of 1-10
      - Cramps
      - Pain with intercourse
      - Pain with bowel movements
      - Pain with urination
      - Pelvic pain
      - Other: \_\_\_\_\_
      - Pain free
      - Ovulation
      - Breast tenderness
      - Joint pain
      - Headache
    - Symptoms
      - o Bloating
      - Tiredness
      - Headache
      - Diarrhea
      - Constipation
      - Gassy

- Nausea
- Frequent urination
- Brain fog
- Difficulty sleeping
- No symptoms
- Other:\_\_\_\_\_
- Allows **optional notes**.
- Saves symptoms **against that specific date**.

## 7. Reminders / Notifications

### Milestone Notifications

- **Module Completion:**  
*"🎉 Well done on completing your first module! Your journey matters—keep going!"*

### Re-engagement Reminder (User Inactivity)

- **After 3 Days of Inactivity:**  
*"Haven't seen you in a while! Your next module is waiting when you're ready 💜"*
- **After 7 Days of Inactivity:**  
*"Let's continue your healing journey—jump back into your module today!"*

### Module Completion Reminder (User Has Started but Not Finished)

- **Mid-Module Reminder (after 2 days):**  
*"You've made a great start! Let's complete your current module to keep the momentum going ✨"*
- **End-of-Week Reminder:**  
*"Still working on Module 2? A few more steps and you're done. You've got this!"*

## 8. MyEndo | GDPR and HIPPA checklist

- **Data Mapping:** Clearly document all patient data types (e.g., name, email, content personalization) and how/where they are stored (mobile app, cloud, admin panel).
- **Privacy by Design:** Build privacy into the app from the start. Ensure secure content delivery, encrypted storage, and secure authentication.
- **Authentication:** Use secure login for both patients and admins (ideally via OAuth or 2FA for admins).
- **Audit Trails:** Track who accesses the admin panel and any modifications to user records or content.
- **User Consent:** On signup, users must explicitly agree to data collection and processing. Include a privacy policy and terms of service.
- **User Rights Interface:** Provide a way for users to request data access, correction, or deletion from within the app or via a support email.
- **Secure Hosting:** Ensure cloud infrastructure (e.g., AWS, Azure) complies with HIPAA and GDPR standards. Use encrypted databases and HTTPS APIs.
- **Lawful Basis:** Use consent or legitimate interest as the legal basis for collecting patient data.
- **Data Minimization:** Only collect necessary data (e.g., avoid collecting full medical records unless needed).
- **Right to Erasure:** Add a "Delete My Account" feature or support request for full deletion.
- **Data Portability:** Allow users to request an export of their personal data (e.g., activity logs or profile info)
- **Identify PHI:** Determine what qualifies as PHI (e.g., patient name + surgery schedule + viewed content = PHI).
- **Admin Panel Access Controls:** Ensure only authorized staff can log in and perform actions.

- **Data Transmission Security:** Use TLS/SSL for all data exchange between mobile app, server, and admin panel.
- **Data Storage Encryption:** Encrypt sensitive data in databases and backups.