

User Interface Sketches

No.	Screen Name	Description
1	Initialization Screen #1: Login Screen	This screen provides an interface for the family member to log in with email and password credentials, or modify the password if he or she already has an account. Otherwise, the family member can create a new account.
2	Initialization Screen #2: Family Centre menu page	This screen provides a full menu for users to navigate to various areas of the app such as resource booking, media playlist creation and more.
3	Resources Screen #1: Family member selects resource and date range	This screen provides a dropdown for users to select what resource they would like to book as well as a datepicker for them to choose a date range when they want to use the resource.
4	Resources Screen #2a: Family member fills in booking form	This screen provides textual information about the selected resource, a time picker for users to choose the time slot that they want to use the resource, a single select option for users to choose a priority level, as well as a text field for users to enter a reason for their booking.
5	Resources Screen #2b: Family member fills in booking override request	This screen is a variation of Resources Screen #2, where the time slot the user chooses is a booked time. In this case, the screen displays a message showing who holds the current booking and prompts the user to send a booking override request with priority level and reason for booking.
6	Family Activity Screen #1: Host family member creates a poll	This screen provides an interface for the family member who hosts the family activity to create a poll of family activity options to send out for the invitees to vote on.
7	Family Activity Screen #2: Other family members vote on a poll	This screen provides an interface for family members invited to the family activity to vote on their preferred family activity options.
8	Family Activity Screen #3: Host family member schedules a family activity	This screen provides an interface for the host family member to select a desired date range, intended duration and time(s) of day for the family activity to occur on. It also allows the host to select a time from the available time slots generated by data returned from the calendar service.

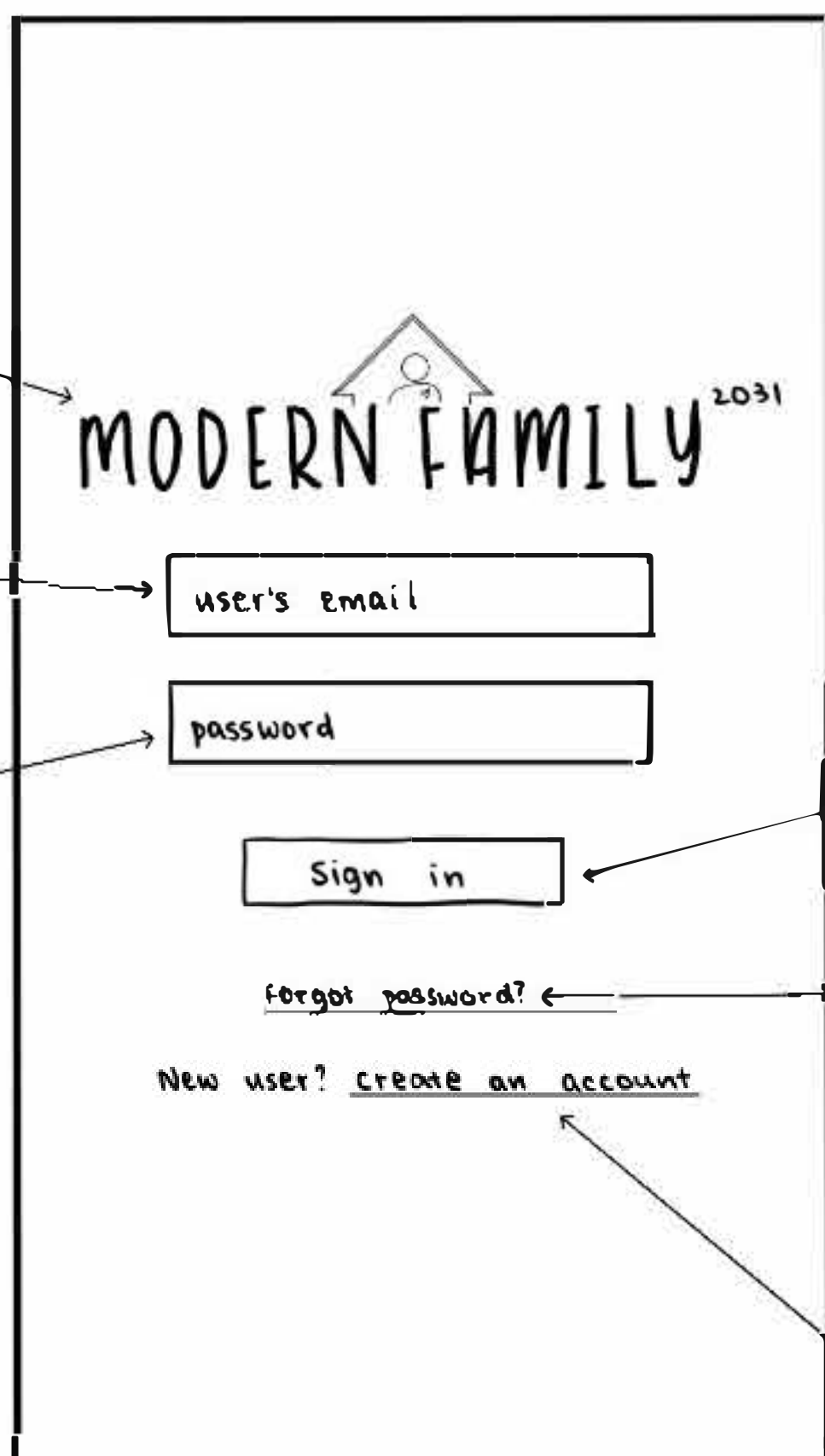
9	Family Activity Screen #4: Host family member fills out other activity details (location, activity type and assigning tasks)	This screen provides an interface for the host family member to add the location and select the activity type for the family activity. Based on the selected activity type, tasks will appear and the host can assign these tasks to various family members.
10	Media Playlist Screen #1: Playlist creation	This screen shows the first step, which is setting up basic info of the playlist and adding media files to it, in the creation of a shared media playlist. The second step in the playlist creation is to share it with family members. In the first step, the user must enter the name of the playlist. They can also enter a description of the playlist if they wish. Then, they would proceed to add the media files from links for uploading it from their own device.
11	Media Playlist Screen #2: Playlist view	This is the view of a created playlist with the added media files. Family members who are invited to the file have the option to edit the playlist. They are able to see details of each media file such as name, length of the file, host of the file etc. They can also select a specific media file to play it.

Initialization Screen #1: Login Screen

Title and icon that represents our application.

Text input field for the family member to type in the email address of the account.

Text input field for the family member to type in the password of the account.



"Sign in" button that allows the family member to sign in when the correct email and password have been filled.

Text link that directs the family member to a screen to reset their password.

Text link that directs the family member to a screen for creating a new account.

Initialization Screen #2: Family Centre menu page

The downwards arrow symbol will give the family member a list of various areas of the application that they can navigate to outside of the four use cases displayed in the tile widgets. This may be profile settings, account settings and other miscellaneous features.

This screen appears immediately after the family member logs in. It is a centralized page or "Family Centre" where family members can access the various use cases of our application.

This circular photo component displays the family member account's profile photo. Clicking on the photo will display an enlarged version of the photo.

This notification bell icon displays the number of notifications the user has. Clicking on this icon will display all unread and uncleared notifications. Such notifications may include "A family member has invited you to a family activity" or "<Family member name> is asking to override your resource booking".

The text displayed here simply reminds users of the purpose of the application and encourages them to explore the various widgets below.

Depending on the family member account that is currently logged in, the interface will display "Hello, <First Name>".

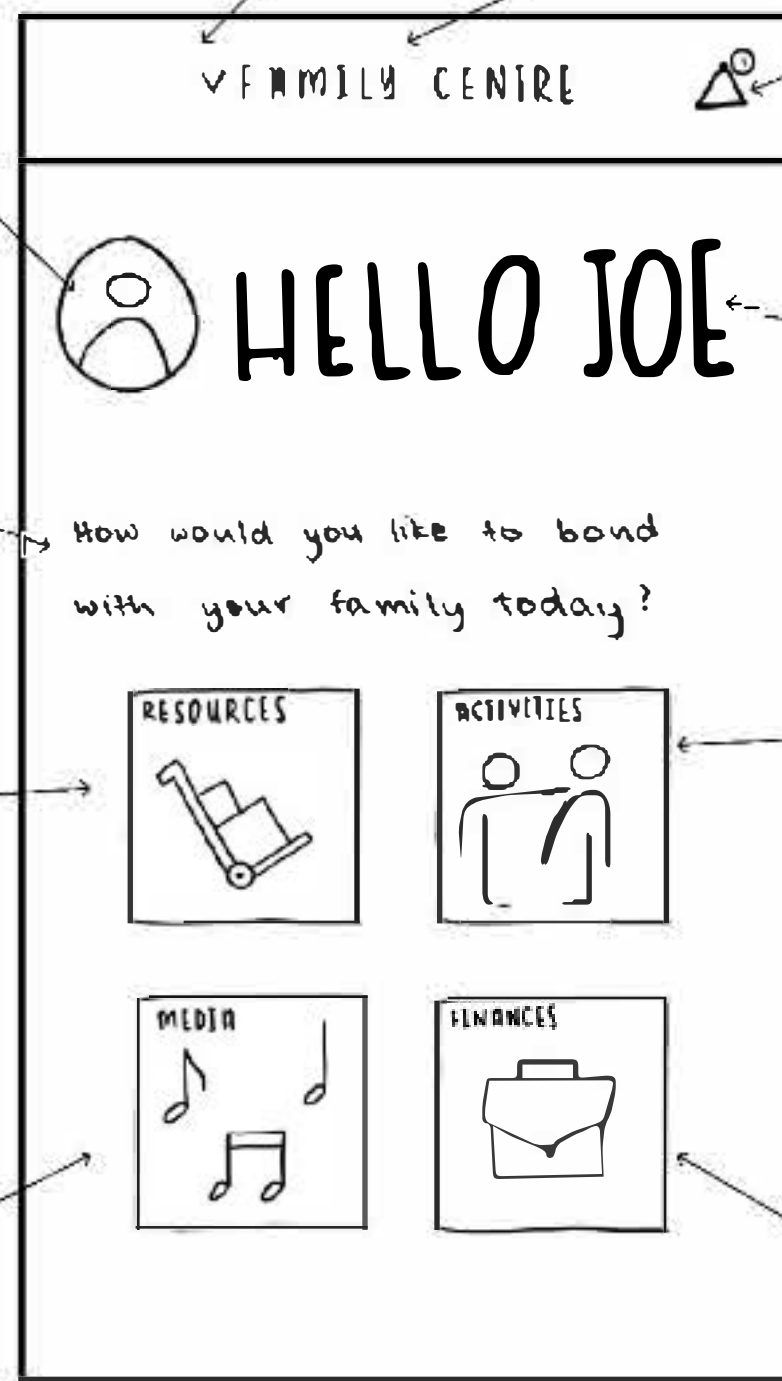
How would you like to bond with your family today?

Clicking on the "Resources" widget provides access to the family's shared resource inventory. This provides a list view of resources that family members can book. The family member may book a resource or send an override request for an existing booking through this widget.

Clicking on the "Activities" widget allows family members access all the workflows related to family activities. For example, this widget allows them to start planning a family activity. This entails sending polls to other family members, and filling out activity details and assigning tasks. Furthermore, family members may also access activities they have been invited to and submit votes to polls they are required to complete.

Clicking on the "Media" widget gives family members the ability to create a new media playlist and view all existing media playlists that have been shared with them by another family member.

This widget is added as an extra use case.



Resources Screen #1: Family member selects resource and date range

The header with the part of the workflow displayed on the screen to communicate what step of the workflow the family member is currently accomplishing.

This hamburger menu allows user to open up other menu items to navigate to a different workflow in the system.

Title of the task on the screen

Input field for the name of the activity the family member wants to input as a poll option. When the family member clicks on this input field, the field will be highlighted to indicate that it is currently active and the keyboard will pop up. As the family member is typing, the input field is filled with the name of the activity. This is the same type of interaction for every input field.

Input field for the activity description the family member wants to input as additional information for this particular poll option.

The "*" indicates that this field is mandatory to fill out in order to proceed through the rest of the workflow. If any of these fields are left blank, the "Send Poll" button will be disabled and not allow the family member to continue with the submission until all mandatory fields are filled out.

This "+ Add a poll option" button can be clicked, and once it is clicked, 2 empty fields for "Activity name" and "Activity description" will appear on the screen. The interactions with these are the same as with the 2 above.

The family member can choose which other family members to send this poll to. Either they can select "All" and all the family members will be selected, or they can individually check off which family members to send the poll to. The checkboxes indicate that this is a multiselect field, and when they are selected, a check mark will appear in the box. This is also the invitation list for the family members who will be invited to the family activity.

This is an input field for the deadline to vote. The format of this input is as a date formatted as "Month Date, Year". To input a date, the family member either types it in or selects a date from clicking the date picker on the right side of the input field. This date picker opens up a calendar, and the family member can select a day on the calendar by changing the month and year displayed.

if the family member clicks this "Cancel" button, a dialog will pop up asking them if they are sure they want to cancel the planning of the family activity. This dialog will include a message that informs the family member that if they cancel, their changes will not be saved. It will also have 2 buttons. One button will be to confirm the cancellation and the other will be to return to this screen if the family member did not intend to click "Cancel". If the family member confirms that they want to cancel the planning of the family activity, they will be redirected to the Menu Screen. If they dismiss the dialog, the dialog will disappear, and they will come back to this screen.

Once the family member has filled in all the mandatory fields on this screen, they can click this "Send Poll" button and this will send a notification and the poll to all the family members that were selected for the poll to be sent to. If any of the mandatory fields are not filled in, this button will be disabled. Otherwise, if all mandatory fields are filled in, the button will be active and when the family member clicks this button, the poll will be sent to all selected family members and a success message will appear informing this host family member that the poll has been successfully sent.

Resources Screen #2a: Family member fills in booking form

Meta data as extra information for the family member who is voting.

The family member can select as many poll options as they would like by clicking the checkboxes.

Family Activity Poll

Vote for a family activity

Deadline to vote: Dec 19, 2021

Select as many activities as you'd like:

movie night

description v

picnic

description A

pizza making

description v

submit votes

If there are too many poll options to fit on the screen (or many descriptions are opened for the various poll options), a scroll bar will appear that allows the family member to scroll down on their screen to continue viewing the poll options.

The family member can choose to click on this expander to see the description the host family member added for each activity option. They can click on the expander again to collapse it.

Once the family member has selected all of their preferred poll options, they can click this "Submit Votes" button. Afterwards, a success message will appear informing the family member that their votes have been submitted and a notification will be sent to the host family member to inform them of the votes.

Resources Screen #2b: Family member fills in booking override request

This is a calendar view that allows the family member to select a start date and an end date for the date range they want to schedule the family activity during. The selected dates will be highlighted and the family member can choose to change the month and year at the top.

Screenshot of the "Schedule the family activity" form. The form includes a calendar for selecting a date range (Dec 2021), an "Intended duration" field set to "2 hours", a "Time of day" section with checkboxes for morning, afternoon, evening, and night, and an "Available time slots" section showing two slots: "DEC 25, 2021 @ 20m - 4pm" and "DEC 26, 2021 @ 7pm - 9pm". There are "Back" and "Next" buttons at the bottom.

This is a field that allows the user to increase or decrease the value by clicking on the top and bottom arrows on the right. This is to indicate the intended duration of the activity so the available time slots will be sent back as these durations.

These are multiselect checkboxes that allows the family member to specify what time of the day they would like to have the activity during. The family member can pick as many times of the day as they would like.

Based on the date range selected, the intended duration and time(s) of day specified, the system will automatically display available time slots as it receives the date from the third party calendar service. The family member can choose one of the time slots from the ones that are generated. When a time slot is selected, the selection button will be highlighted. To de-select a button, the family member needs to click it again in the selected state.

The family member can click this "Back" button option at any time to go back to a previous screen in this workflow or in the system. In this case, assuming they got to this screen from the notification that all family members have voted, once they click the button, they will return to the notifications view.

Once the family member has filled in all the mandatory fields on this page, the "Next" button will become active (it will be disabled if the family member has left at least one mandatory field blank). When the family member clicks on this "Next" button, they will be directed to the next screen in this workflow.

Family Activity Screen #1: Host family member creates a poll

Meta data as extra information for the chosen family activity and date/time scheduled for that family activity.

Input field for the family member to type in the location that the family activity will happen at.

The family member can select from a list of pre-set family activity types to categorize this current family activity. They can select only one activity type by clicking on the type (in which case the selection button will be highlighted). To de-select the activity type, the family member simply needs to click on the selected button again.

The family member can click this "Back" button option at any time to go back to a previous screen in this workflow or in the system. In this case, assuming they got to this screen from the screen where they picked a date/time for the activity, once they click the button, they will return to that view.

Finalize family activity plan

Chosen activity : movie night

Chosen time : DEC 26, 2021 7pm - 9pm

Location *

123 Cineplex ave, Toronto

Activity Type*

Family meal

Family outing

+ Add activity type

Assign tasks*

Driver : Janet

Ticket buyer : John

Snacks :

Back

send invites

An alternative workflow to selecting from the pre-set list of family activities is to add a new activity type by clicking the "+ Add an activity type" button. This will allow the family member to customize an activity type and associated tasks with them.

Based on the selected family activity type, tasks will be generated and each task will have an associated dropdown menu with options to select a family member who will be responsible for that task for the family activity. The family member can assign the same people to different tasks if they wish, and the dropdown menu can be opened by clicking the little dropdown icon on the right side of the field.

Once the family member has filled in all the mandatory fields on this page, the "Send Invites" button will become active (it will be disabled if the family member has left at least one mandatory field blank). When the family member clicks on this "Send Invites" button, they will see a success message appear confirming that invitations to the family activity have been sent to all family members. Simultaneously, all family members invited to the family activity will receive a notification about the activity and the calendar service will automatically update each person's calendar with the details of this activity.

Family Activity Screen #2: Other family members vote on a poll

Header that informs the family member what step of booking a resource they are on.

A dropdown menu where the family member can select a resource to book from a list of shared resources previously entered into the system.

Text that prompts the family member to select a range of dates that they want to book the resource for.

Date picker - The family member can select a range of dates that they need to book the resource for. They can drag to select the date range and tap it again to unselect it.

A "Book" button. When the family member clicks this, the system sends a request to the calendar service to retrieve the bookings of the selected resource so the family member may proceed to the next screen in which they enter booking details.

The wireframe shows a mobile app screen with the following elements:

- Header:** "Select a resource"
- Text:** "select a resource to book"
- Dropdown Menu:** A box containing "Toyota Camry Car" and a checkmark icon.
- Text:** "when do you need to use it?"
- Date Picker:** A calendar for "JANUARY 2021" with days of the week (M, T, W, Th, F, Sa, Su) and dates (1-28). The dates 9 and 10 are highlighted in orange.
- Button:** A rectangular button labeled "BOOK".

Family Activity Screen #3: Host family member schedules a family activity

Text display that informs the family member which shared resource they previously selected and are entering details for.

A start and end time input for the family member to enter what time and how long they want to book the resource for. It defaults to the first available time slot of the selected day. If the family member inputs a time range that overlaps with an existing booking, the screen will show Family Activity Screen #4.

Text field for the family member to type in a reason for booking a resource. This information is used in showing other family members booking details.

Fill out the booking form

Resource information
Toyota Camry Car

Select a time to book
January 9, 2021 ✓

start end
→ 9:00 AM 11:00 AM

Select a priority level:
Low Medium High

Enter reason for booking

OK

A dropdown where the family member can select a date within the date range they chose on the previous screen so that they can choose a time slot for that day to book the resource.

Radio button group - here the family member selects the priority level of the booking, and it can only be high, medium, or low. This information is used in showing other family members booking details.

The "OK" button is to confirm a booking. When a family member clicks it, the system will send a request to the calendar service to update the resource's bookings. The family member has now completed the flow to book a resource.

Family Activity Screen #4: Host family member fills out other activity details (location, activity type and assigning tasks)

Fill out the booking form

Resource Information
Toyota Camry Car

Select a time to book

January 9, 2021 ✓

start end
9:00 AM 11:00 AM

Janet has booked this resource.
Priority level: Medium
Reason: _____

Send a booking override request:

Select a priority level:
Low Medium High

Enter reason for booking

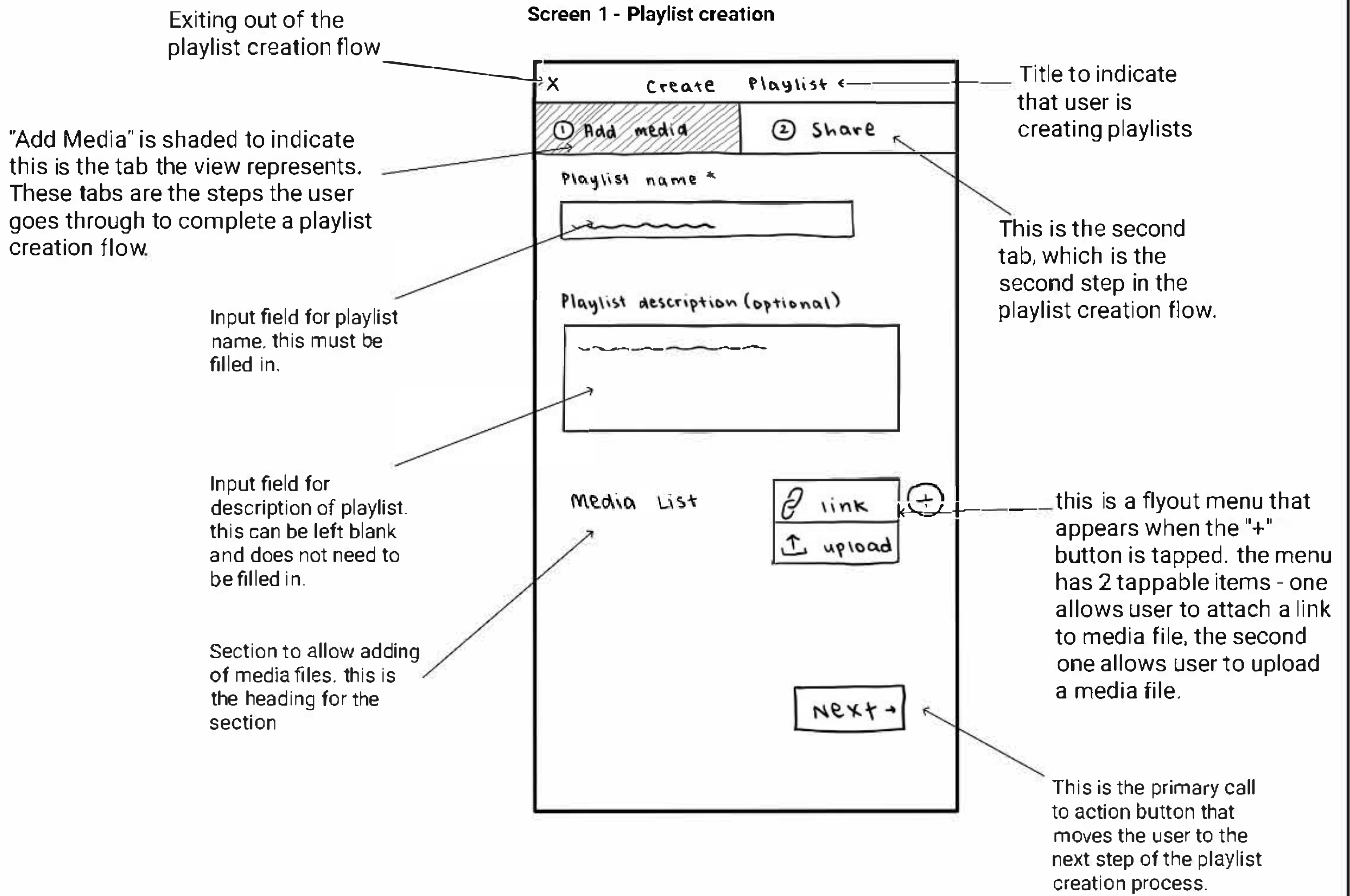
send override request ←

This message appears when the family member has selected a time range that overlaps with an existing booking. It contains booking details (priority level and reason). The family member can either reselect a time range that works for them, or they can continue with this screen's flow and send an override request to the existing booking's owner.

When the family member clicks this button, the system sends a notification to the family member holding the existing booking that this family member wishes to override, and that other family member can choose to deny or approve the request.

Media Playlist Screen #1: Playlist creation

Screen 1 - Playlist creation



Media Playlist Screen #2: Playlist view

