The Gen-Next App’s core value is the infinite scrolling calendar.

The internet offers packages for calendars but they mainly function is page to page calendar (where each page represents a month.)

The InfiScroll Calendar is a backbone of the app.

The InfiScrollCalendar uses a flatlist of MonthComp components. MonthComp components uses the useMemo function to ensure only the updated MonthComp components are re-rendered.

Each Month component has either 4 or 5 weeks.

There is also cross over with dates between months.

Each Calline is composed of 7 Day components.

Each Day Component is a View component with the a date.

CalLine

CalLine

CalLine

CalLine

(Month Name)

MonthComp2

MonthComp1

**Redux Store**

* Calendar Store

The Calendar redux store manages many states for the infinite calendar.

One of the major items it manages are the notes that the user places. Its captured in a dictionary *calendernotes.* Redux stores uses asyncstorage. Asyncstorage is about to be deprecated so it may make sense to look into replacements. Next step is probably to hook up to a server.

Calendarnotes uses dateString as key and an array of Strings as values. These array of Strings are of the notes that the user has attached to that dateString.

dateString is produced from the built in JS date object

const localdate = new Date()

dateString = localdate.toISOString().split("T")[0]

Many dictionaries in this app uses this kind of dateString as key.

In short the calendar store keeps track of the date selected on the calendar, the current date, a list of dates and notes associated with those keys, and whether or not the app is in EditMode.

* Personal Store

Store deals with calculate cycle days for the user.

Using the information the user has entered (some of which is stored in calendar notes) an average ovulation cycle day can be calculated.

**View mode and EditMode**

The calendar screen is screen in View mode or in edit mode. By default it is in View mode. When you press on the individual dates that has icons attached, the notes attached to that day is displayed on the bottom of the screen. When first opened, there will be no icons attached to any dates as nothing has been attached to any dates.

To attach a note/icon to a date, go into Edit Mode.

To go into editmode, press the + icon and it’ll open up a modal screen with options. Select the option you want to add into the calendar, and it will be in edit mode. (there is a small orange text to tell you what you are adding to the calendar) Press on as many dates as you like to add icons. Hit Done to exit Edit Mode.

In definitions/Notices.js , the various options and effects and settings are all defined there.