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CSC 391

Final Documentation

Purpose:
The designed application allows the user to look through a number of commonly prescribed medications, view the common use case, and common side effects. The user can then select a medication, and have them be reminded to take it at a particular time, and frequency of their choosing. This will utilize both UserNotifications and EventKit to create multiple forms of reminders.

Storage Handling:
Other features will be explained with the picture of each screen. This section will focus on how persistence is handled and how the Medications are stored. As far as the medication details go, they are stored in a MedicationModel struct containing the name, purpose, and side effect associated with each medication. In order to ensure that the MyMedication list was preserved in between launches of the app, the medications were saved within UserDefaults under the key SavedMedications. UserDefaults was chosen over CoreData as the expected amount of medication being saved to a user is relatively low, and mitigates the need for something as complex and robust as CoreData. On the appearance of the view, the UserDefaults are loaded, and on exit the current medications are saved to the UserDefaults.

Screens with Description:

Screen 1:

This is the first screen the user will see when opening the app. From here they can view the current medications they are being reminded about, including the frequency at which they would like to be reminded and the time at which they can be reminded. Medications can be deleted by swiping on the desired medication. Reminders can be synced to a users calendar. When "Sync Calendar" is selected, all calendar events from the calendar day the button is pressed to 28 days in advance that begin with "Time to take" will be

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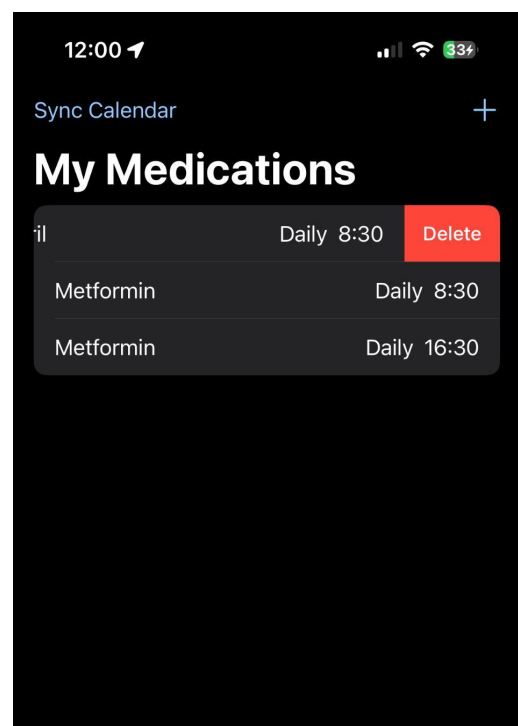
deleted and replaced with the respective time, name, and frequency shown on the MyMedications list. User must enable calendar access when prompted otherwise an error alert will be shown. Notifications must also be enabled, if they are not, then there will not be any alerts sent to the user. The user can select the + button on the top right to add a medication to their list, and can select medication details on the tab bar to view the database of medications we currently store.

Screen 2:

When the user selects the "+" button on screen 1, the adjacent screen will be displayed. In this screen the user can select from the 40 or so commonly used medications we currently store in our system. They can select a frequency which ranges from: daily, every 2 days, every 3 days, all the way up to weekly. They also select the hour and minute they would like to receive their reminder. The reminder is created using a 24 hour clock to ensure there is limited confusion on the desired time. Selecting "Add Medication" will display a success alert informing the user that the reminder has been added to their list.

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Screen 3:
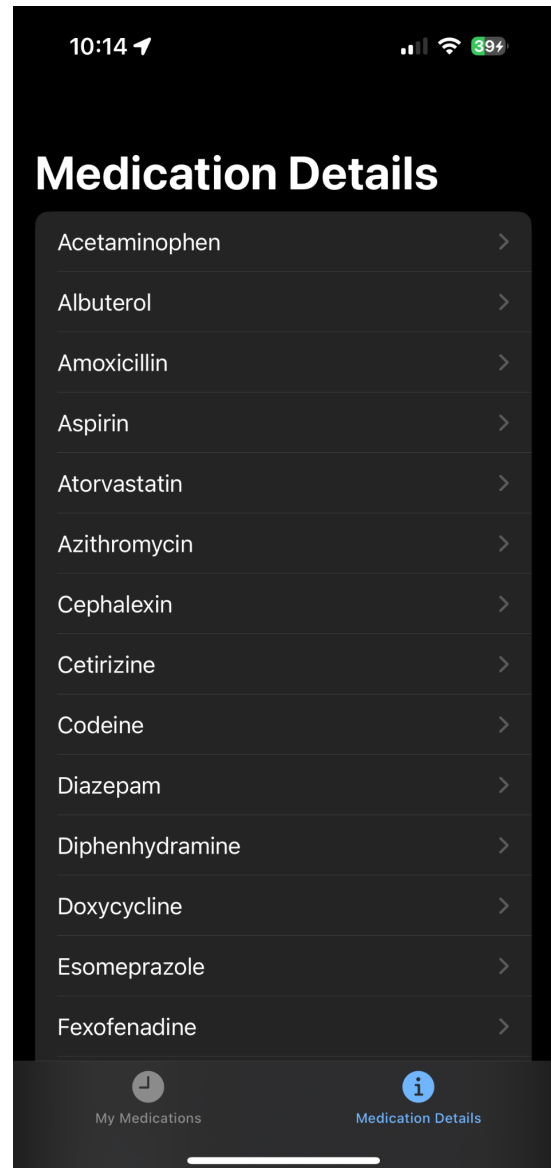
This screen shows all of the medications we have stored within the app. There are currently 40 medications that are commonly prescribed by physicians. The user can select any medication of their choosing and will be shown a detail view.

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Screen 4 & 5:

The following screens are the detail view presented to the user when they select a medication in the "Medication Details" Tab. The first view they will see is the leftmost screen, which shows the name of the medication and the purpose it is mostly commonly prescribed for. There is a "Show Side Effects" button below that will display the rightmost screen and show the side effects commonly associated with that medication.