

Findings and Fixes

Findings	Fixes
There's no architectural structure design pattern	Implemented MVC design pattern
Names of view Controllers are very similar	This makes distinguishing between the two difficult, to rectify that I renamed AlarmViewController to SettingAlarmViewController to make readability better, and to indicate what the view controller is about.
when pressing 'Delete' action, app was crashing	In <code>func deleteAlarm(at indexPath: IndexPath)</code> Changed <code>alarms.remove(at alarms.count)</code> To <code>alarms.remove(at: indexPath.row)</code>
There's no access control implemented to protect private variables and functions.	Implemented access control appropriately.
When adding new alarm, the time in datepicker wasn't presenting 8AM by default.	Set datepicker to 8 am if a new alarm is being added, or show the existing time if alarm is being amended. By correcting Alarm Model time property multiplication to the correct number of seconds which's 3600 from the incorrect value of 360.
Alarms disappear after re-opening the app again	Implemented Core Data as a database to persist alarms within the app.
After adding a new alarm, the new alarm is being appended at the end of the list, and if edited alarms stay in the same position	Implemented NS Fetched Result Controller, and used alarm time attribute as a sort descriptor to ascend alarms by time.
Layout Constraints Unable to simultaneously satisfy constraints.	Sorted out two constraints that were conflicting in Alarm table view custom cell.
Layout appeared a bit off in different devices simulators.	Set layout constraints to table view, Table view didn't have any constraints.
Code is not easy to read	Added comments for functions and variables, grouped and marked each relevant block of code to improve readability
Alarms not going off	Implemented local notifications using calendar notification trigger.

Snooze alarms	Implemented local notifications using time interval notification trigger.
Random act of kindness	Implemented a function that opens SMS app and fill it with predetermined message randomly picked from KindnessBank file in Model. This function is called when user interacts with notification actions and press snooze button.