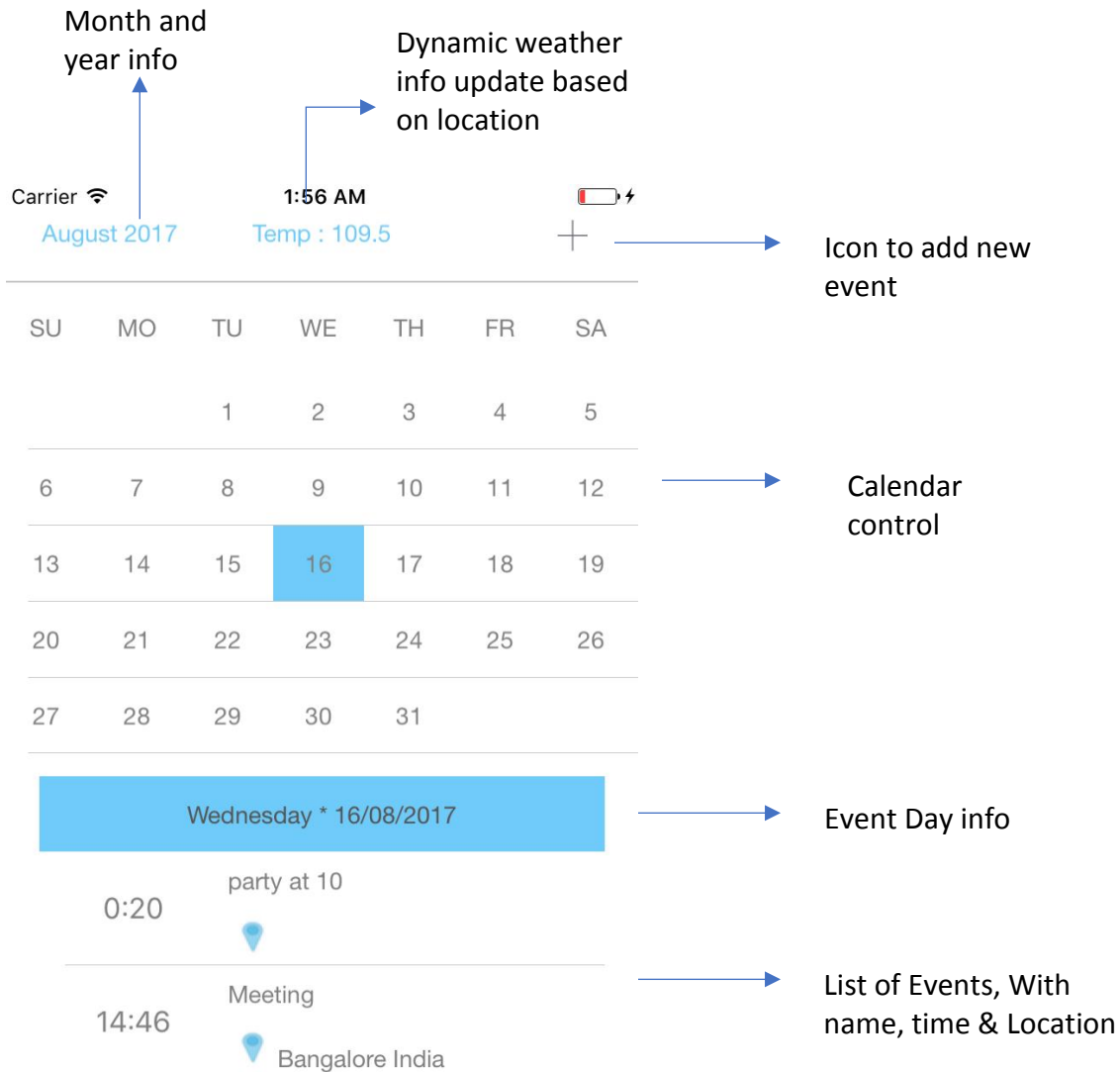



MCalendar Components and design Explanation



MCalendar Components and design Explanation

Carrier  11:57 PM  

[Cancel](#)

Add New Event

[Add](#)

EventName

Specify the name of the event

EventDescription

Provide the description for the...

Event Location

Provide the location of the event

Event Time

11 57 PM

Allows user to create a new event on a specific day with time and location preferences

MCalendar Components and design Explanation

Features and services in MCalendar:

1. Calendar grid view displaying the dates of the specified month – implemented using **UITableView**
2. On Scrolling up or down, adjacent month dates will be plotted in the application
3. Tap on a date, to check the events on the specific date/day. – Data retrieval done from CoreData.
4. Way to add new event/events on any day. – data persistence done using **core data**
5. All the views are developed programmatically. No Storyboards and Xibs.
6. Display the current temperature based on the device location
 - **OpenWeatherapi** is used for fetching the weather data
 - Location information is retrieved using **CoreLocationDelegate**

Limitations:

1. XCtests are done only for critical parts of the code.
2. Orientation is restricted to Portrait.
3. Only basic calendar and agenda view has been implemented.

Components Covered while developing MCalendar:

- CoreLocation
- CoreData
- Networking
- UITableViews
- UIViewControllers
- UIViews and related components.
- NSNotifications
- Protocols and delegations
- Structs
- Enums
- JSON serialization
- UserConsents for accessing device information
- XCtesting
- DatePickerView