

STEP TRACKER

Project Description

Step Tracker is an application which turns an iPhone into a simple and beautiful step counter app. It keeps track of the past 10 days step count.

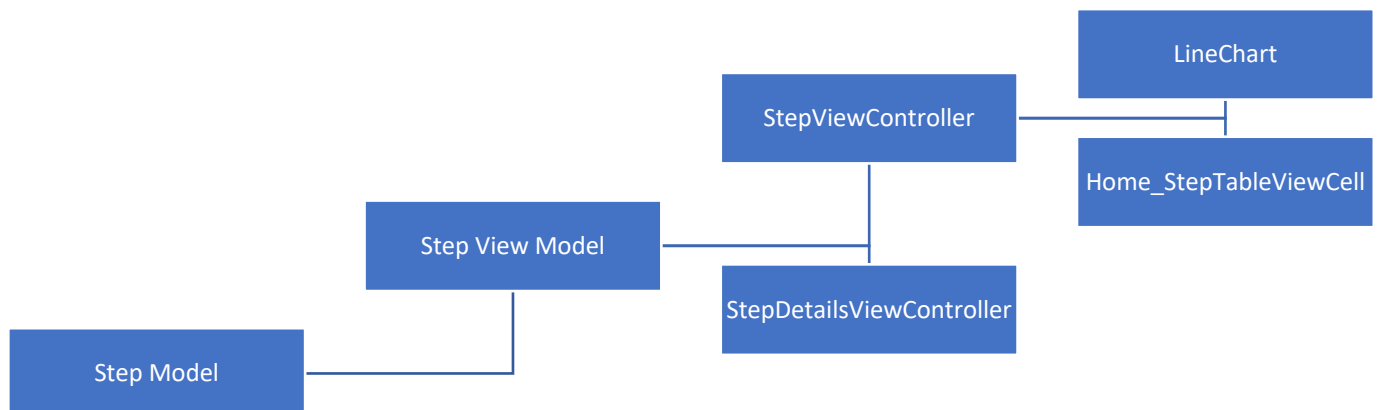
Technologies and Libraries Used

- Xcode 9.3
- Swift 4.0
- iOS Charts 3.11
- Core Motion
- UIKit

Assumptions made

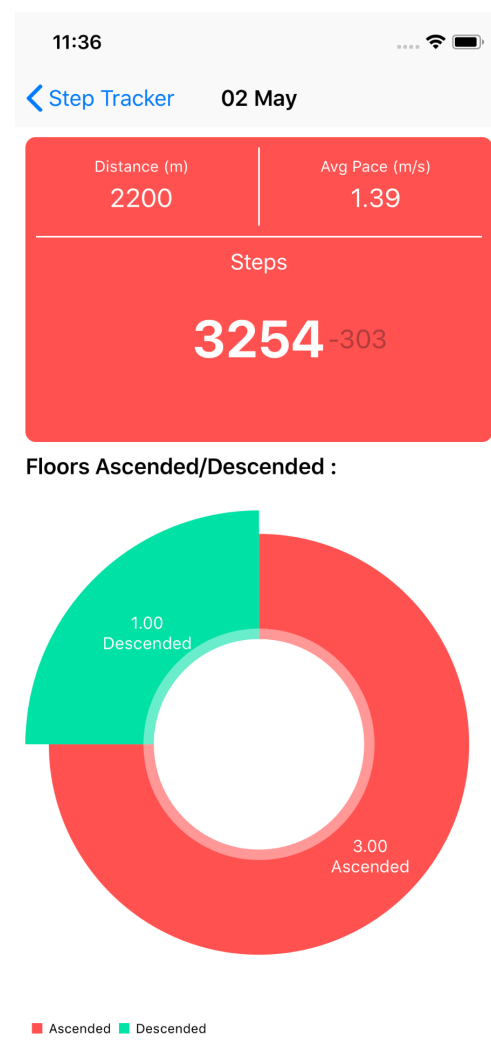
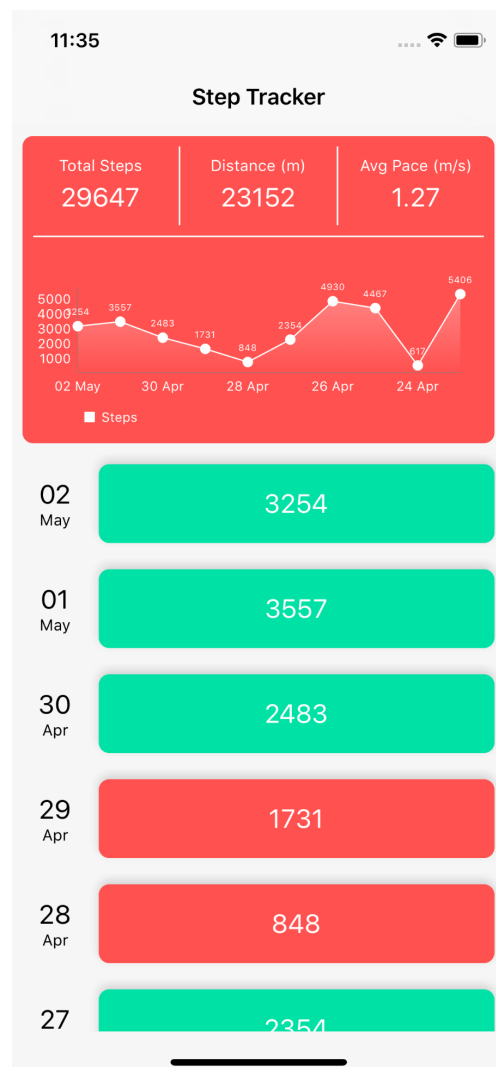
- Distance are measured in meters(m)
- Pace is measured meters per seconds (m/s)
- Target step count is 2000.

Implementation Details



Step model fetches the data from the CMPedometer and parses it in the form CMPedometerData. The parsed CMPedometer data is stored in StepViewModel class. An object of StepViewModel class is created in ViewController and StepDetailsViewController to get necessary data in order to display on the screen. A line chart is drawn on the StepViewController displaying the variations in steps in last 10 days and a pie chart is drawn on the StepDetailsViewController breaking the distance covered data in terms of floors ascended and descended. Charts are drawn with the help of iOS Charts library. Each cell of the UITableView in StepViewController is sent to Home_StepTableViewCell where it configures the cell. StepDetailsViewController compares the selected day's steps with previous days steps and displays the difference beside the selected day's step count. In StepViewController, a summary view is displayed which displays distance, total steps, average pace and a line chart.

Screenshots



- **Red Colored Cell**

In StepViewController Red colored cells in the UITableView denotes that the user has not met his/her target step count for the day.

- **Green Colored Cell**

In StepViewController Green colored cells in the UITableView denotes that the user has met his/her target step count for the day.

The app is compatible for all iPhone devices and graphs are responsive and zoomable.

Future Scope

Breakdown of data and display icons and images for the number of steps and time spent in walking, running, stationary and automotive time and display their statistics with different graphs and style which help users achieve their goals and stay fit & healthy.