**Design Documentation B - UML Class Diagram**

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Software Used for UML: Lucidchart
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**StepDataModel**

+ pedometer: CMPedometer
+ managedContext: NSManagedObjectContext

+ startTrackingSteps(onUpdate: @escaping (Int, Double, Double) -> Void, onError: @escaping (Error) -> Void): Void
+ stopTrackingSteps(stepLabelText: String, onCompletion: @escaping (Int, Double, Double)): Void
+ calculateDistanceTravelled(steps: Int): Double
+ calculateCaloriesBurnt(steps: Int): Double
+saveStepData (stepsCount: Int, date: Date, distance: Double, calories: Double): Void
+ fetchStepEntries(): Void
+ isStepCountingAvailable(): Void

**UserStepEntry**

+ date: Date
+ stepCount: Int
+ kmsWalked: Double
+ caloriesBurnt: Double

<<Core Data Entity>>

**StepDataViewController**

+ stepDataModel: StepDataModel

+ viewDidLoad(): Void
+ onStartButtonClick(): Void
+ onStopButtonClick(): Void
+ viewDidLayoutSubviews(): Void

**StepHistoryModel**

+ fetchDailyStepData(): [UserStepEntry]
+ fetchWeeklyStepData(): [UserStepEntry]
+ fetchMonthlyStepData(): [UserStepEntry]

**StepHistoryViewController**

+ stepHistoryModel: StepHistoryModel

+ viewDidLoad(): Void
+ getDailyHistoryButton(): Void
+ getWeeklyHistoryButton(): Void()
+ getMonthlyHistoryButton(): Void()

**SettingsModel**

+ dailyStepGoal: Int
+ selectUnits: String
+ toggleOn: Boolean

+ checkIfValidGoal(): Void
+ checkIfValidUnits: Void
+ deleteHistory(): Void

**SettingsViewController**

+ settingsDataModel: SettingsDataModel

+ viewDidLoad(): Void
+ toggleReminderButton(): Void
+stepsSubmitButton(): Void
+ unitsSubmitButton(): Void
+ selectUnitsButton(): Void
+resetHistoryButton(): Void