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Controller

- Retrieves JSON Data as a Dictionary
- Retrieves List of Courses being tracked
- Parses JSON object to get Buildings list and locations, Floors list, Classrooms list
- Calls TableView, imagePickerController, locationManager mapView delegate methods
- Updates Table Views, Image Views, Text Views
- Computes User Location
- Fetches Course Information for a Classroom

Notifies User Actions:

Whenever a button, or cell in a table, is clicked

View TableView Cells for Buildings, Floors, Classrooms

When the map is clicked

When a photo is picked or clicked

Notifies:

Changes in JSON Data (Building details, floor details, Classrooms details)

Change in course information for a classroom

New CourseInfo Object created (new course added)

Update:

Text View displaying tracked courses

Table View listing Buildings

Table View listing Floors

Map View displaying building location, user location

Table View listing Classrooms

Updates Classroom information - Course name, notes, images added by user

Update:

Creation of a new CourseInfo Object

Send course name for Modification of a CourseInfo object - edits in notes or images

List of tracked courses

View

- Displays home screen, text view of tracked courses
- Displays list of buildings with names and a photo
- Displays list of floors
- Displays list of classrooms
- Displays course information
- Displays notes and images
- Shows the map in the List of Floors View Controller

Model

- Calls the API and returns JSON data
- Stores Course Information in Core Data
- Functions to add, retrieve, and edit CourseInfo objects from Core Data
- Returns a list of courses being tracked