

# *UniNavigate*

*Your Personal Campus Diary*



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CSE 335

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# Problem Statement

- Campus can be confusing to navigate
- Students take notes for different classes electronically which can often get jumbled
- Data privacy breaches have become commonplace nowadays, personal data not safe online even on private accounts

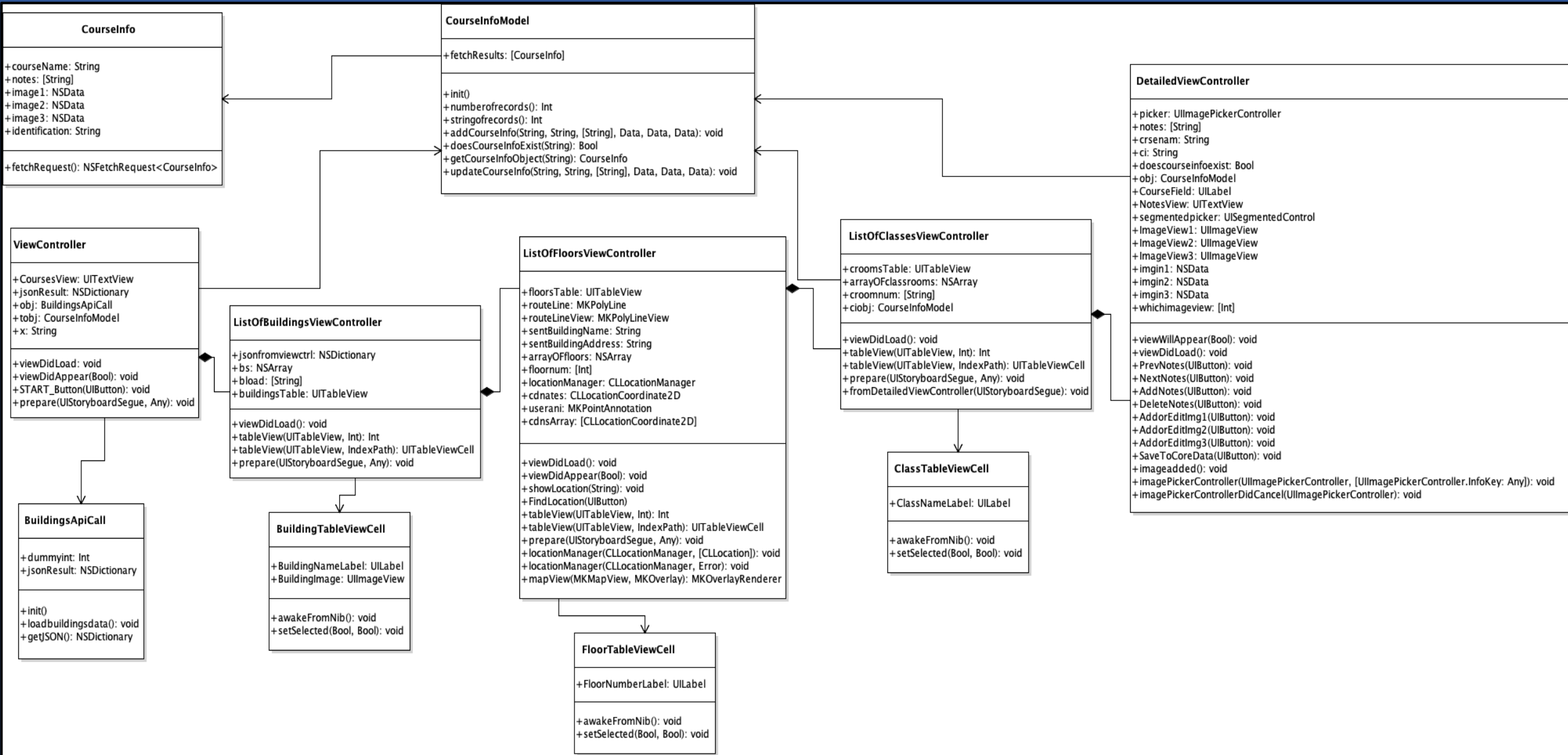




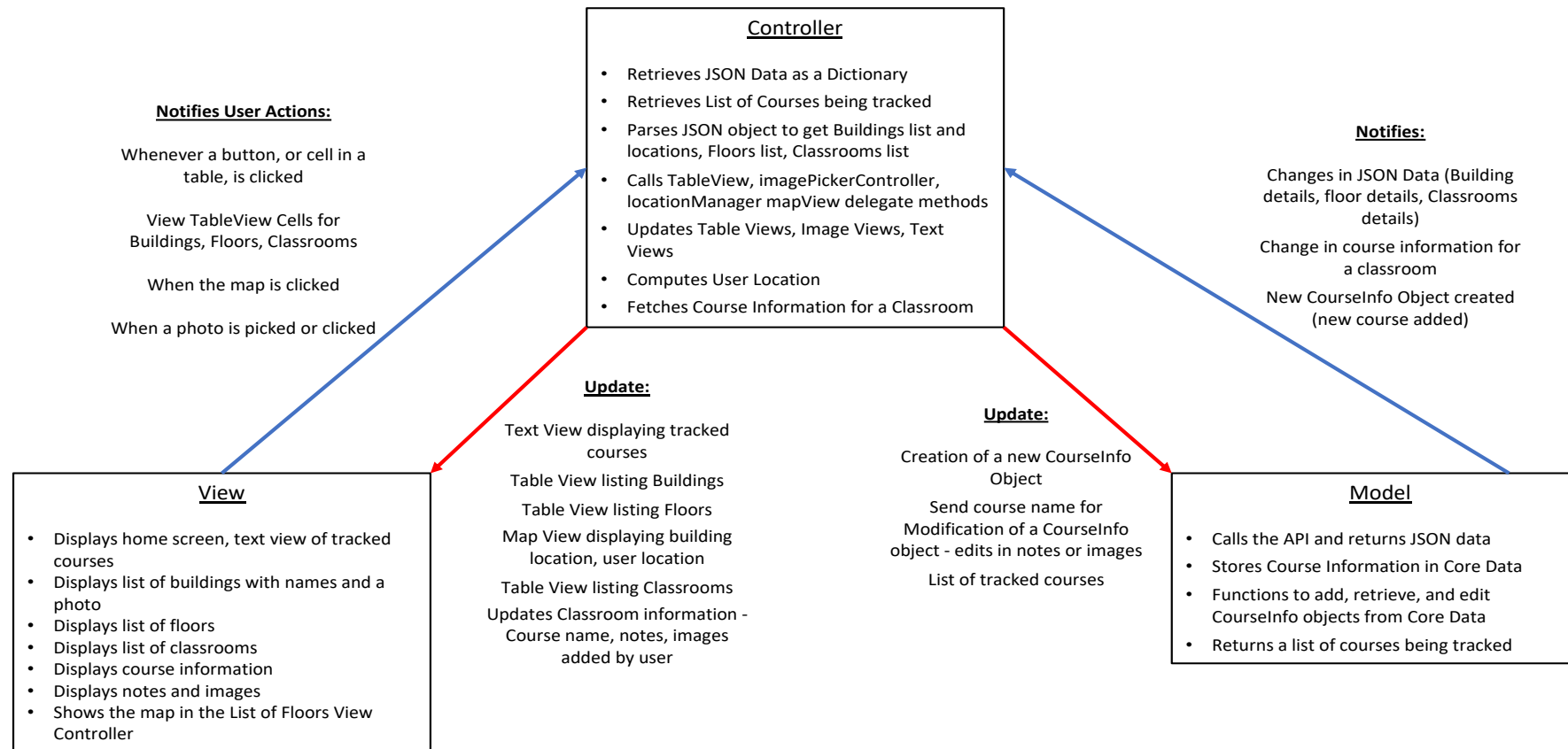
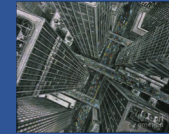
# Solution/Project Idea

- iOS Application which displays all buildings, floors, classrooms on the ASU campus
- Students can select a building → floor → classroom and add a course to it
- The Course associated with a classroom, can be customized with notes and images
- All user data is only stored on the user's device and loaded each time the application is launched
- Map feature which displays building location and user location on a map to make navigation easier

# Class Diagram



# MVC Diagram



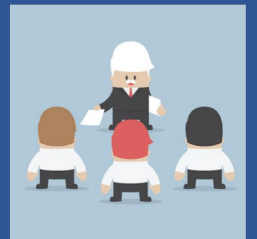
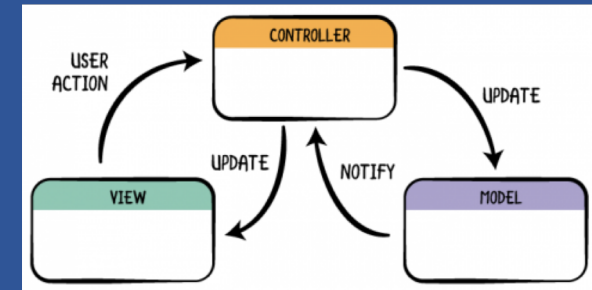
# Capabilities and Limitations

- Displays Buildings, Floors, Classrooms on campus
- Location-based Map features
- Allows users to add or edit notes and images for a course in a classroom, saves information to Core Data
- Lists names of courses being tracked

- Doesn't account for the case where two or more courses can be held in the same classroom
- Data cannot be migrated to another device
- Cannot automatically load courses if given a schedule
- Application only runs on iOS supported devices

# Lessons Learned

- Learnt to create and deploy my own API on AWS Lambda
- Core Data storage, particularly for images
- MVC Architecture principles
- Sound understanding of delegate methods
- Smart UI considerations



# Suggestions for improvements for the class/project

- Making CSE 310 a prerequisite
- Having more assignments focusing on core data
- Potential collaboration with Apple to directly bring developer benefits to students, releasing apps on the App Store
- Connections with industry, guest talks, WWDC information



# THANK YOU

<https://youtu.be/DmBeYYh6HU0>