iPhone App

Team Members:
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What is it?

- ★ Keeps your data safe with Firebase Authentication
- ★ Lists movies soon to be in theatres, now playing, and top rated
- ★ Set Reminders on Release Dates
- ★ Find route to theatre near you with integrated Maps
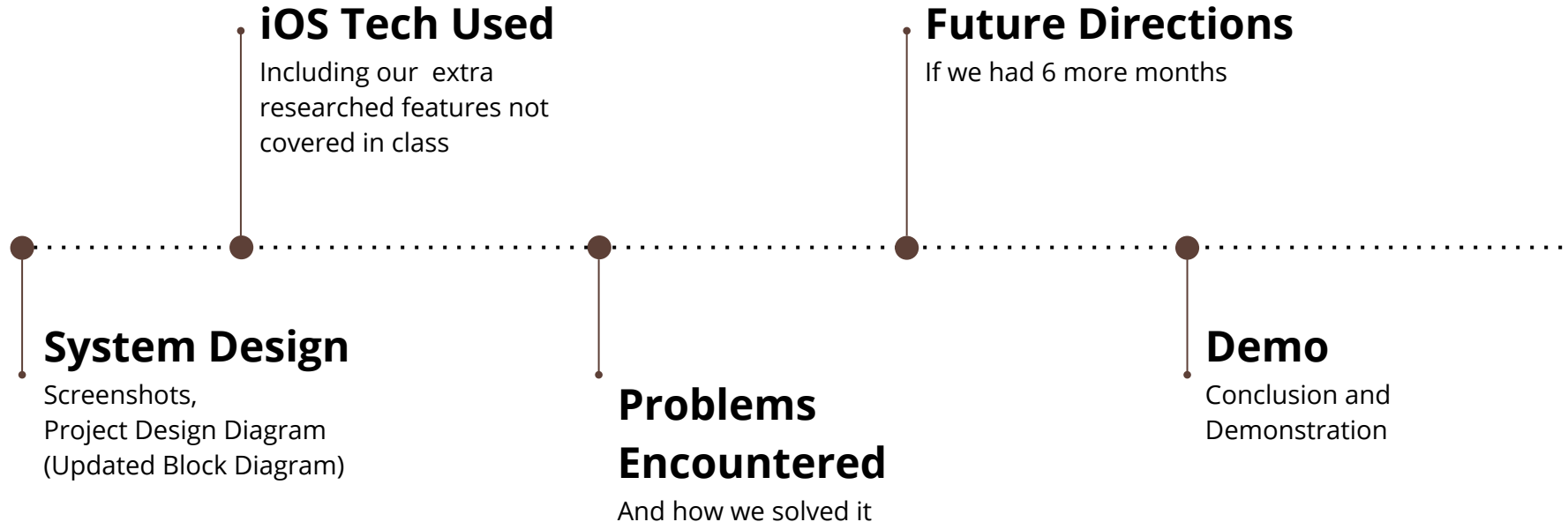- ★ Rate and share thoughts on the movies

Why do you need it?

Plan your movie night

- ★ Discover movies
- ★ Release dates reminders
- ★ Get directions to your theatre

Create favourites list
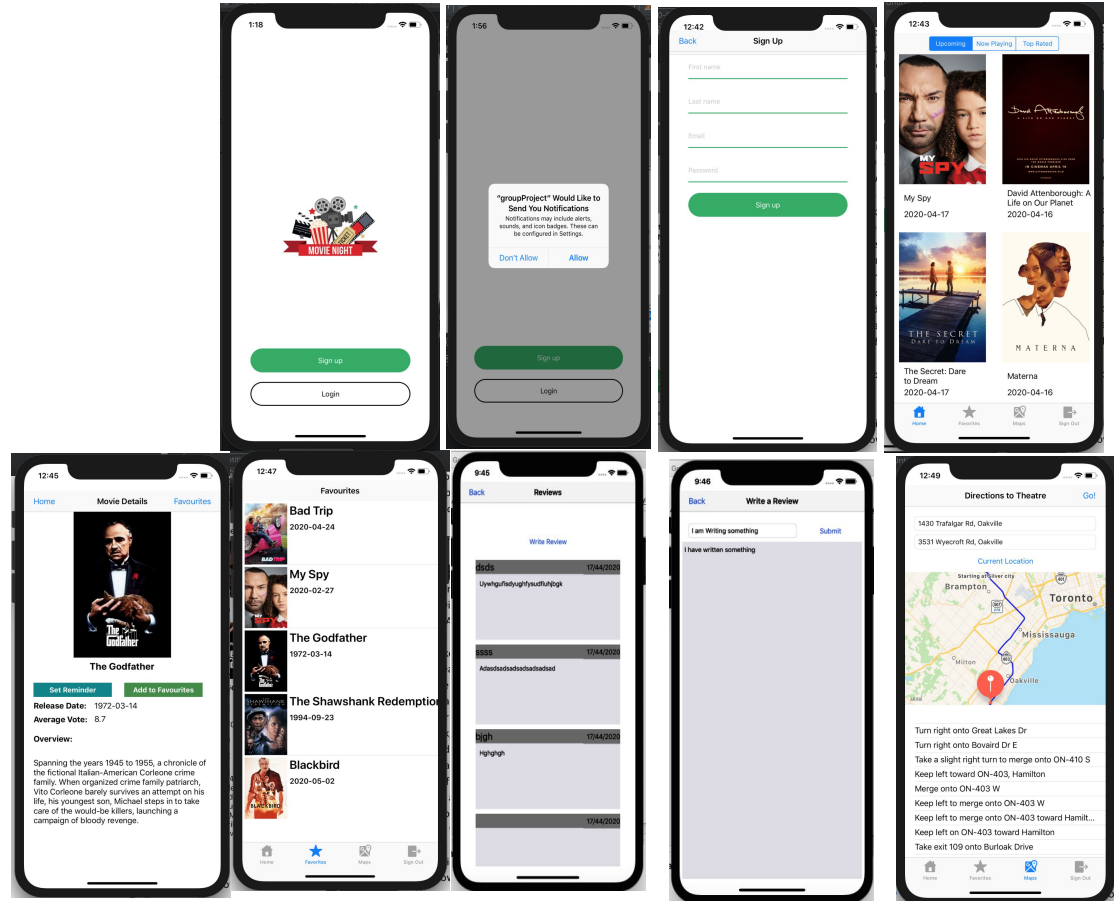
- ★ Remember your favourites

Presentation Map

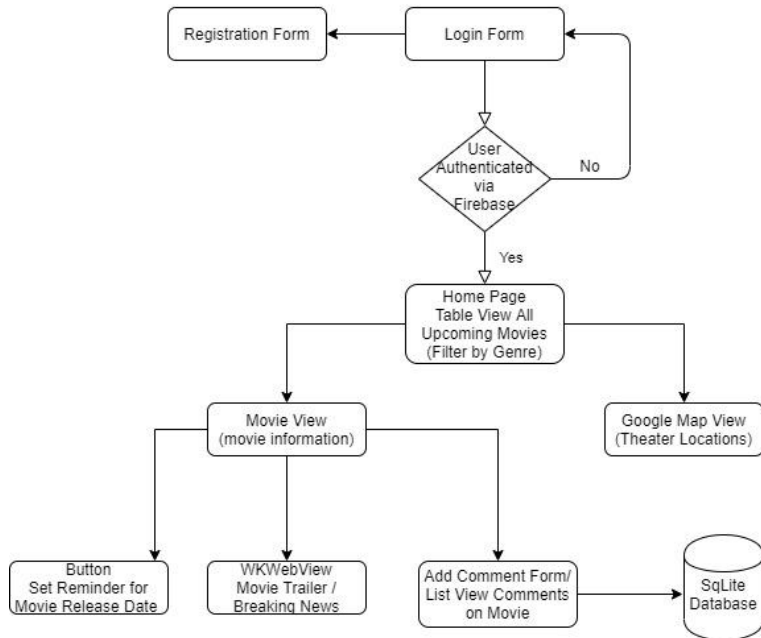**iOS Tech Used**

Including our extra researched features not covered in class

Future Directions

If we had 6 more months

System Design

Screenshots,
Project Design Diagram
(Updated Block Diagram)

Problems Encountered

And how we solved it

Demo

Conclusion and Demonstration

System Design

Proposed:

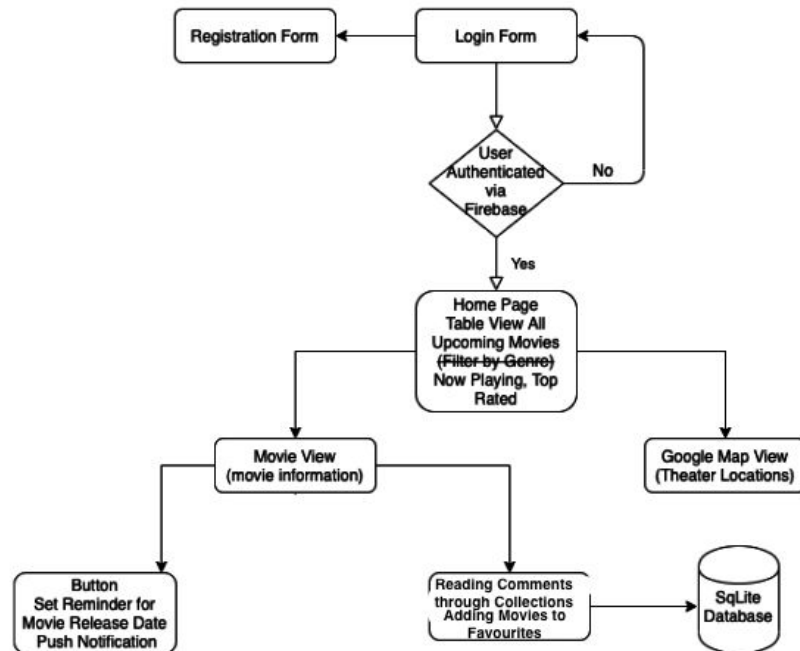## Actual:

iPhone App Block Diagram (Proposed)

iPhone App Block Diagram (Actual)

System Design: **Proposed**

https://drive.google.com/file/d/1UZdiJcWcCbzjFWHU8tjrSgrP4TteG_8u/view?usp=sharing

System Design: **Actual**

We made a few changes from the proposal

iOS Tech Used!

Covered in class	
Data Structures (Custom Classes, Arrays, Dictionaries, Sets)	X
NSArray, NSDictionary	X
IBOutlet IBAction	X
App Delegate	X
Tab bars, pickers, textboxes, sliders	X
1 Web View and 1 Table View	0 / X
Sound & Core Animation	0
SQLite Database	X

iOS Tech Used - researched outside of class!

Firebase

For signing up and registering we used Firebase. Firebase's realtime database is a very powerful tool for a limited scope.

Maps

For maps, we used map delegate and various imported libraries like MapKitView and CoreLocation framework

TMDb, Collection View

Signed up for API key from The Movie Database (TMDb), and make HTTP get request. Parse response JSON into Dictionaries and Arrays and instantiate model class

UserNotification

This is a framework to schedule local notifications. We used it for creating and triggering movie date release reminders

Problems Encountered (& How we solved them)

Integration
Integrating multiple team members work
Solved: Different team members View Controllers can be dragged/dropped together, One person recreates main storyboard and reconnects outlets

Display Remote Image
Solved: Found tutorial on how display remote image

Collection View
Unsure how to populate each featured cell without array of primitives or Strings
Solved: Use array of movie objects

Notifications
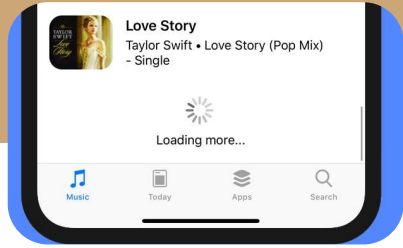Read that I am unable to perform push notifications on simulator
Solved: Local notifications not server push notifications will work with our xcode 10 version

Persistent Reviews
Had trouble keeping changes to update while filling up space
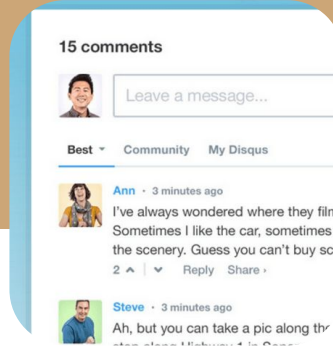**Solved**: Joined AppDelegate dictionary while displayiing on collections view

Future Directions

Infinite Scroll

Pagination Data Fetch

Search

Search by title, Filter by Genre

Discussion

Posts Comments

Share

Movie Trailers

We can use the TMDB API to get Movies video trailers and show in a WebView or on an video player

DEMO

Thank you for listening,
Have a nice summer!