

#### Convergent Capstone Design 2 Week 12 - Progress Report

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Progress

Maps

## Maps Tab

- "MapViewModel" is too complex
- so we separate between Logics and Variables
  - Variables => MapViewModel
  - Business Logics => MapService

#### Maps Tab MapViewModel

#### 

```
class MapViewModel with ChangeNotifier {
 1
      // mapController
 2
 3
      late GoogleMapController mapController;
 4
 5
      // mapLog
 6
      List<MarkerInfo> _mapLog = [];
 7
      List<MarkerInfo> get mapLog => _mapLog;
      set mapLog(List<MarkerInfo> value) {
 8
        _mapLog = value;
 9
        notifyListeners();
10
11
      }
```

#### Maps Tab MapService

1	<pre>void moveCamera(LatLng location) {</pre>
2	context
3	<pre>.read<mapviewmodel>()</mapviewmodel></pre>
4	.mapController
5	.animateCamera(CameraUpdate.newLatLngZoom(location, 16.0));
6	}

#### Maps Tab Image Caching & handling

- The profile image uses a "NetworkImage" type.
- This may result in exception situations and a waste of resources
- So we created logics that could solve both problems
  - Image exception handling
  - Image caching

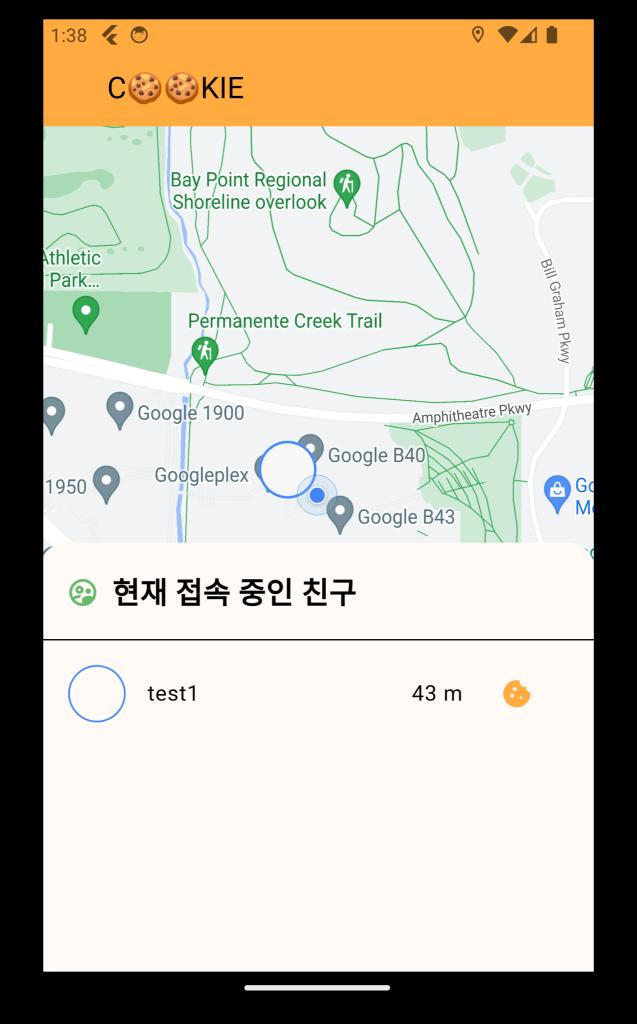
#### **Image Exception Handling**

GET /uploads/testid2/testid2.profile.1695459635937.jpeg
11.226 ms - 1139
GET /uploads/testid3/testid3.profile.1695459682540.jpeg
10.580 ms - 1139
GET /uploads/testid4/testid4.profile.1695459707258.jpeg
10.493 ms - 1139

#### **Image Exception Handling**

#### •••





## Image Caching

#### •••

- 1 Future<File> getCachedImage(String url) async {
- 2 File imageFile = await DefaultCacheManager().getSingleFile(url);
- 3 return imageFile;

#### 4 }

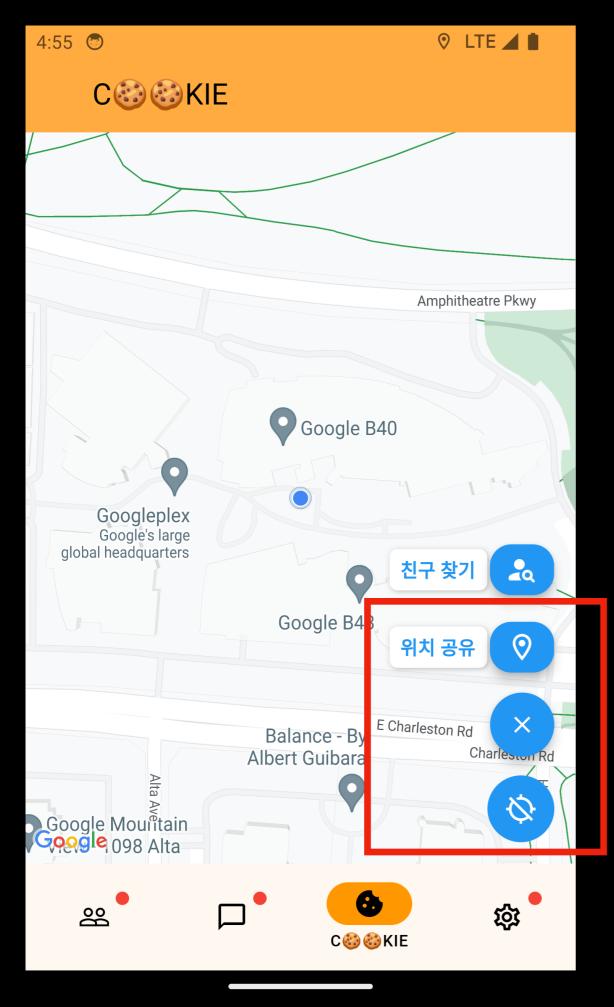
#### •••

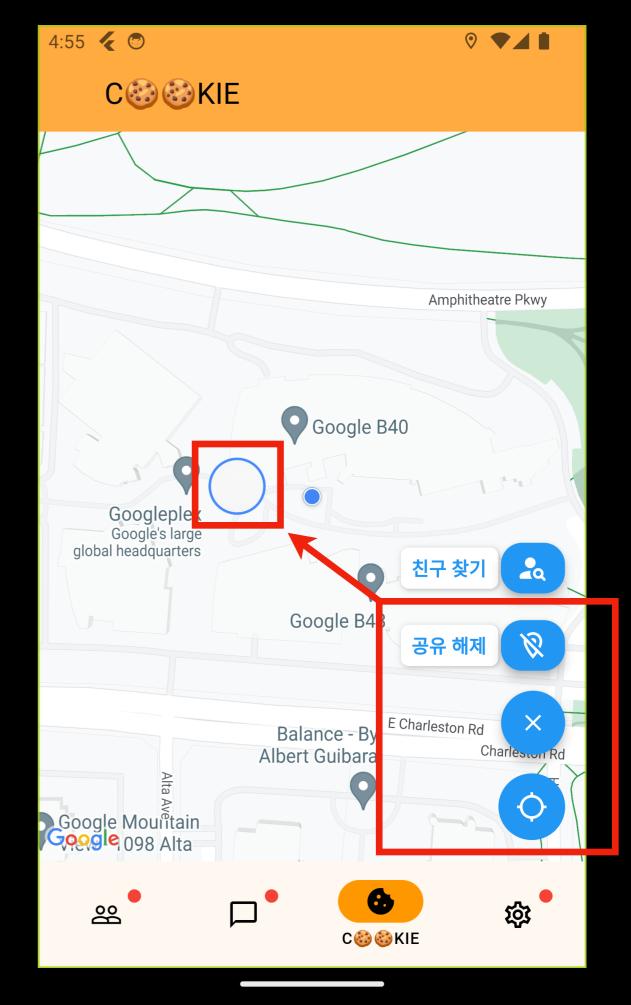
- 1 String imageUrl = await getNetworkImage(user.profile.image.toString());
- 2 File imageFile = await getCachedImage(imageUrl);

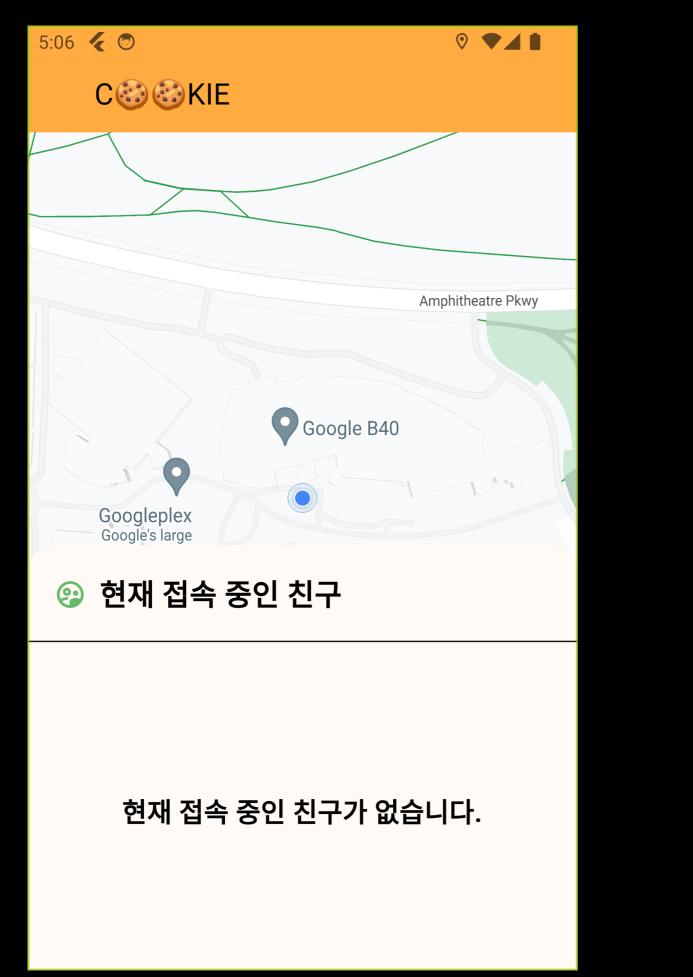


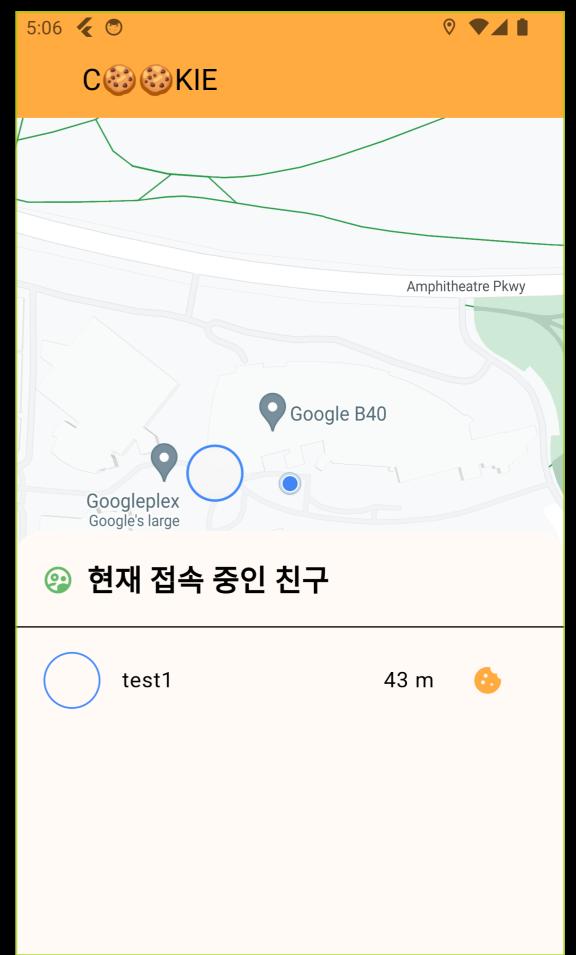
- Location sharing can be controlled via Dial Button
- The marker appears only when both friends share a location





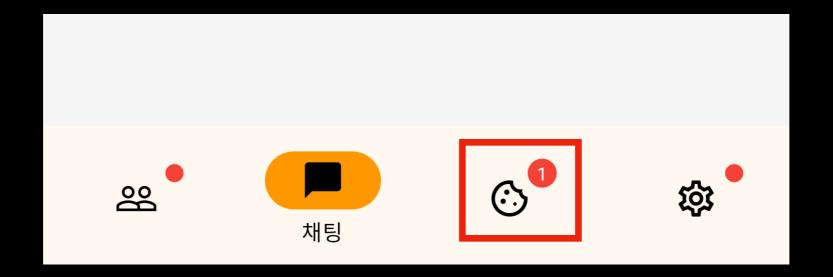






#### Maps Tab Notification

Sile	nt	
Ø	cookie_app • now	^
	1명의 친구와 위치를 공유하고 있어요	
	37.4220667, -122.08445	



# State Management MVVMS

# **Application Global Service**

**Auth Service, Account Service** 

- Auth Service
  - Automatically manages JWT Token
- Account Service
  - Provides Account Informations
    - such as friend's id and profile
    - or my id, profile, phone number etc.

# **Application Global Service**

SocketIO Based - Chat & Map Service

#### Chat Service

- Manages Chat namespace socket
- Saves Information about all of the chatting rooms (as ViewModel)
- Based on SocketIO Events
- Map Service
  - Manages Map namespace socket
  - Based on SocketIO Events

# ChatService

Map<ChatRoomID (string), ChatRoomViewModel> {
 "12hfe": ChatRoomViewModel
 "aiefd": ChatRoomViewModel
 "ih4hj": ChatRoomViewModel
 "sdfie": ChatRoomViewModel
 "53he3": ChatRoomViewModel

# ChatService New Event!

```
Event: Chat
Data: {
  roomId: "12hfe",
  sender: "testid2",
  timestamp: "2023-11-20T16:30:00Z",
  payload: Message
}
```

# ChatService

# Map<ChatRoomID (string), ChatRoomViewModel> { "12hfe": ChatRoomViewModel "aiefd": ChatRoomViewModel "ih4hj": ChatRoomViewModel "sdfie": ChatRoomViewModel "12he3": ChatRoomViewModel }

map["12hfe"].addChat(message);

# ChatRoomViewModel

this.\_model.id: "12hfe"
Messages getter
addChat:
 this.\_model.messages.push(message)
 // To Update the View
 notifyListers();

# ChatTabs



# ChatPage

@override Widget build(BuildContext context) => ChangeNotifierProvider.value( value: this.\_room, builder: (context, chiid) => Scaffold( appBar: AppBar( title: const Text('채팅'), ), // AppBar body: Chat( theme: DefaultChatTheme( // inputPadding: EdgeInsets.all(24), inputBackgroundColor: Colors.orangeAccent, inputTextStyle: const TextStyle( color: Colors.black, fontSize: 16, ), // TextStyle inputTextDecoration: InputDecoration( border: OutlineInputBorder( borderSide: const BorderSide( color: Colors.orangeAccent, ), // BorderSide borderRadius: BorderRadius.circular(1), ), // OutlineInputBorder ), // InputDecoration

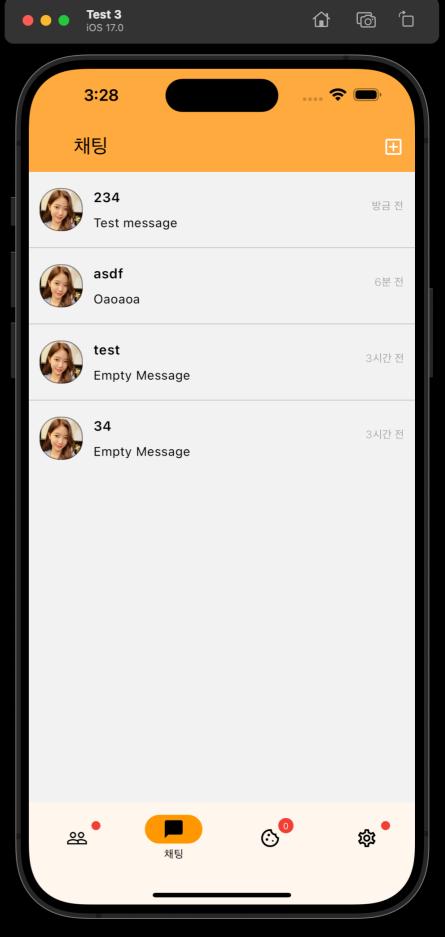
#### Keep Watches if the ChatViewModel messages has changed

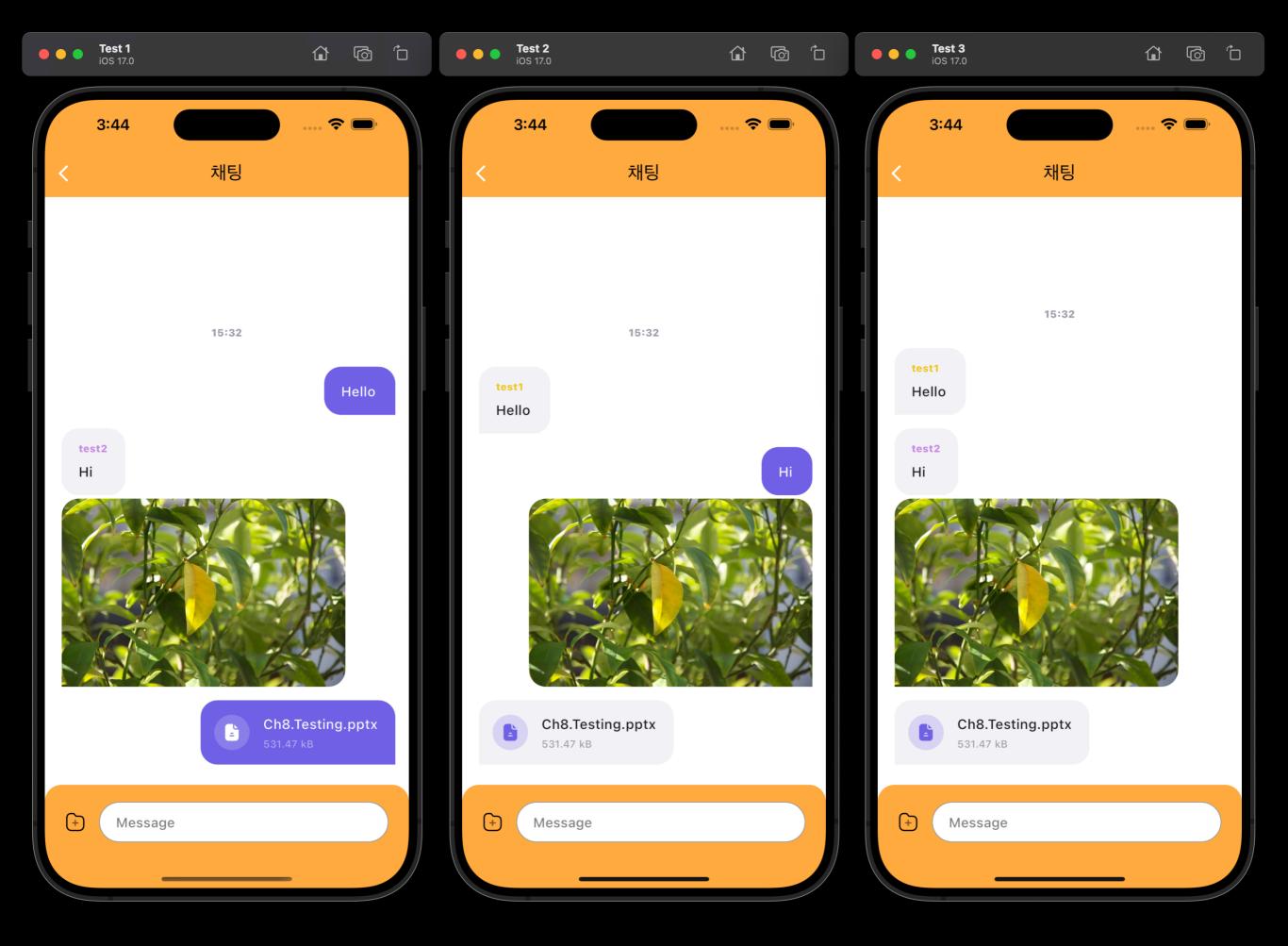
messages: context.watch<ChatRoomViewModel>().messages, onAttachmentPressed: \_handleAttachmentPressed, onMessageTap: \_handleMessageTap, onPreviewDataFetched: handlePreviewDataFetched.

# Chat

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	<b>234</b> Test message		방금	금 전
	<b>asdf</b> Oaoaoa		6년	본전
	<b>test</b> Empty Message		3시7	산 전
	<b>34</b> Empty Message		3시7	산 전
	<b>test</b> Empty Message		3시간	한 전
	<b>dfasdf</b> Empty Message		3시간	한 전
	<b>sdfasfe</b> Empty Message		3시7	반 전
	<b>asdf</b> Empty Message		3시7	안 전
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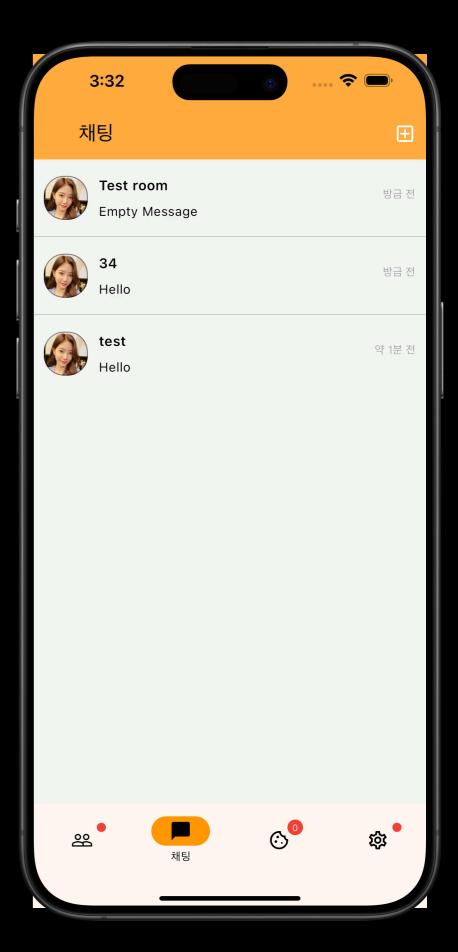
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	<b>dfasdf</b> Empty Message		3시긴	전
	<b>sdfasfe</b> Empty Message		3시간	전
	<b>asdf</b> Empty Message		3시킨	· 전
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	<b>test room</b> Hello		Ę	방금 전
	<b>34</b> Hello		Ę	방금 전
	<b>test</b> Hello		약	1분 전
	<b>test</b> Empty Message		37	니간 전
	<b>dfasdf</b> Empty Message		37	니간 전
	<b>sdfasfe</b> Empty Message		3)	니간 전
	<b>asdf</b> Empty Message		37	니간 전
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	<b>sdfasfe</b> Empty Message			3시간 전
	<b>asdf</b> Empty Message			3시간 전
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Server

## **Debugging & Refactoring**

- Feat: Express Global Error Handler
- Fix: <u>socket.io</u> admin panel xhr polling error
  - Caused by customized <u>socket.io</u> middleware
- Fix: chat message not saved to db
- Refactor: Folder Architecture

# Thank You

**Questions are welcome**