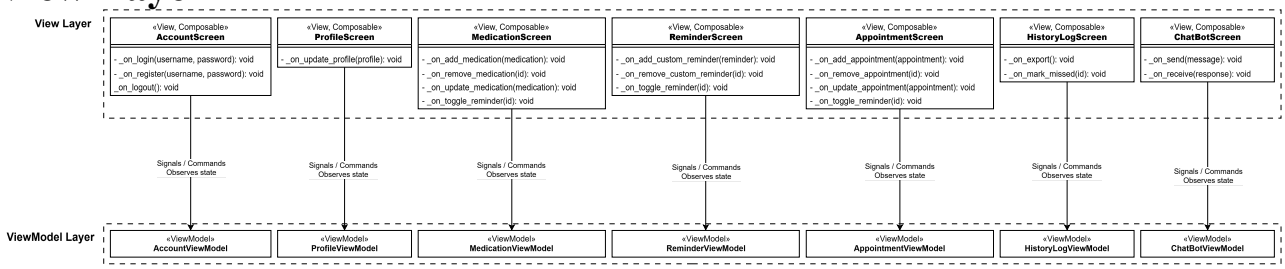
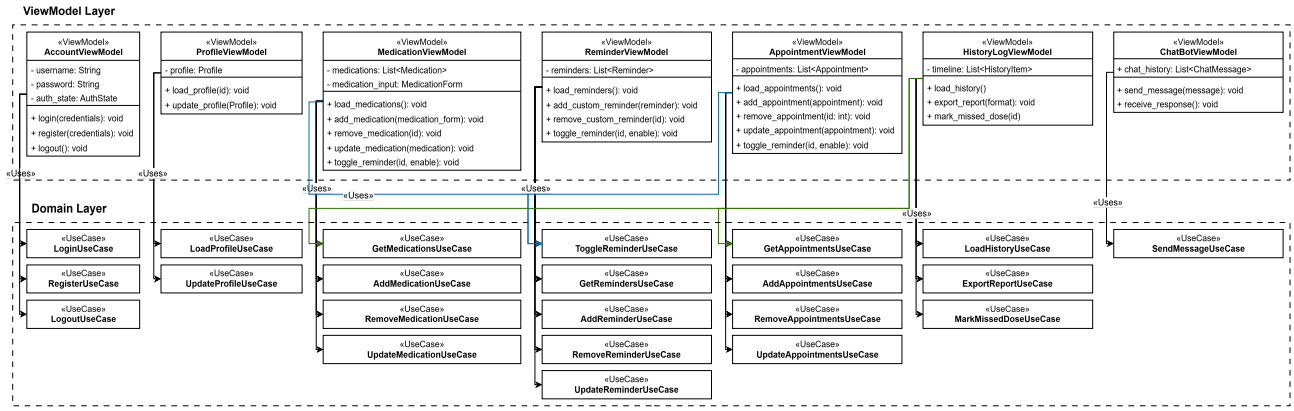
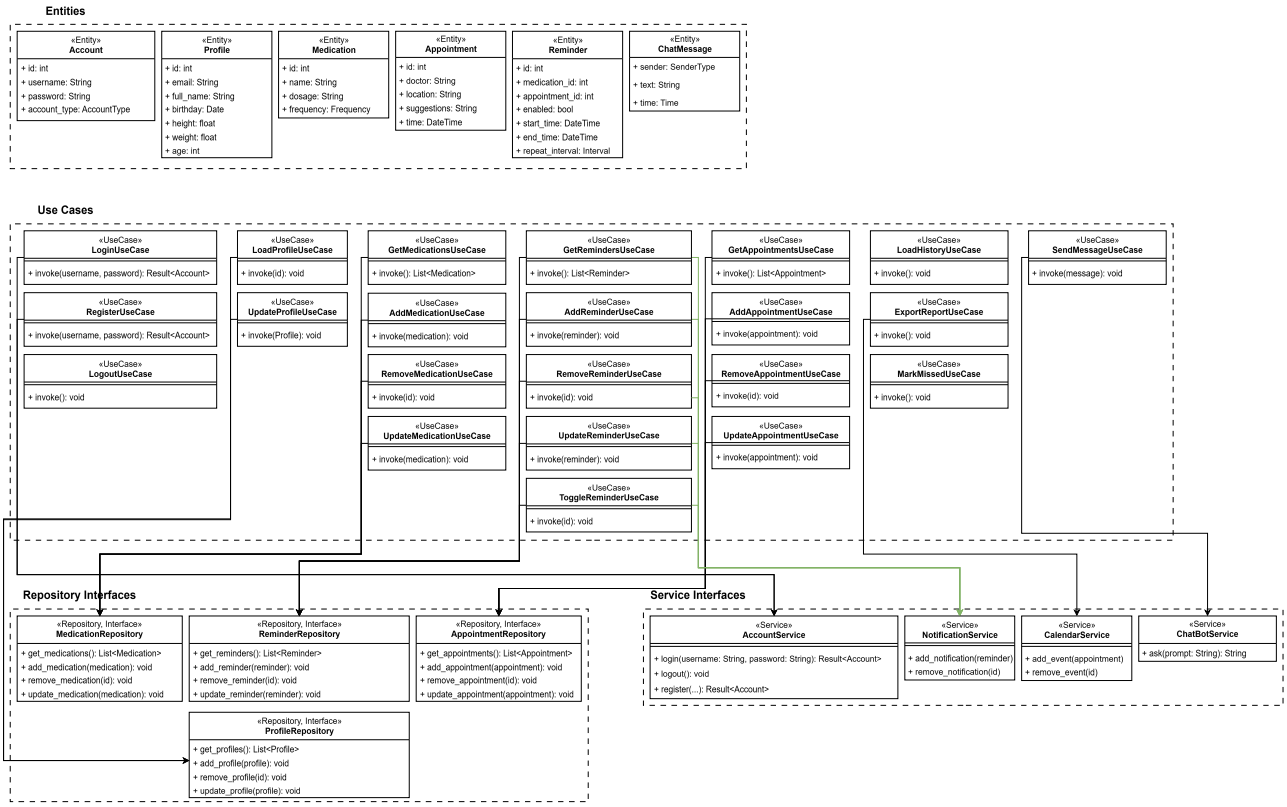
# View Layer


View Layer
«View, Composable»
AccountScreen
- _on_login(username, password): void
- _on_register(username, password): void
_on_logout(): void
«View, Composable»
ProfileScreen
- _on_update_profile(profile): void
«View, Composable»
MedicationScreen
- _on_add_medication(medication): void
- _on_remove_medication(id): void
- _on_update_medication(medication): void
- _on_toggle_reminder(id): void
«View, Composable»
ReminderScreen
- _on_add_custom_reminder(reminder): void
- _on_remove_custom_reminder(id): void
- _on_toggle_reminder(id): void
«View, Composable»
AppointmentScreen
- _on_add_appointment(appointment): void
- _on_remove_appointment(id): void
- _on_update_appointment(appointment): void
- _on_toggle_reminder(id): void
«View, Composable»
HistoryLogScreen
- _on_export(): void
- _on_mark_missed(id): void
«View, Composable»
ChatBotScreen
- _on_send(message): void
- _on_receive(response): void
Signals / Commands
Observes state
ViewModel Layer
«ViewModel»
AccountViewModel
«ViewModel»
ProfileViewModel
«ViewModel»
MedicationViewModel
«ViewModel»
ReminderViewModel
«ViewModel»
AppointmentViewModel
«ViewModel»
HistoryLogViewModel
«ViewModel»
ChatBotViewModel

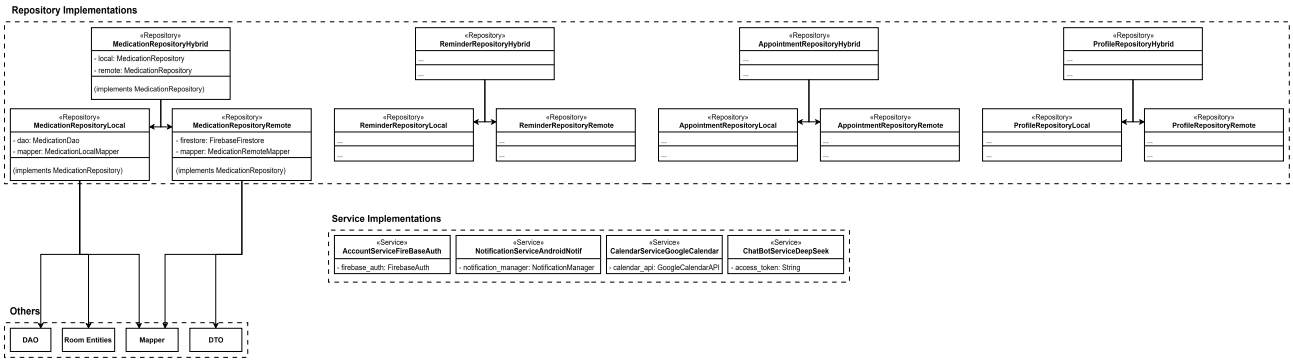
# ViewModel Layer



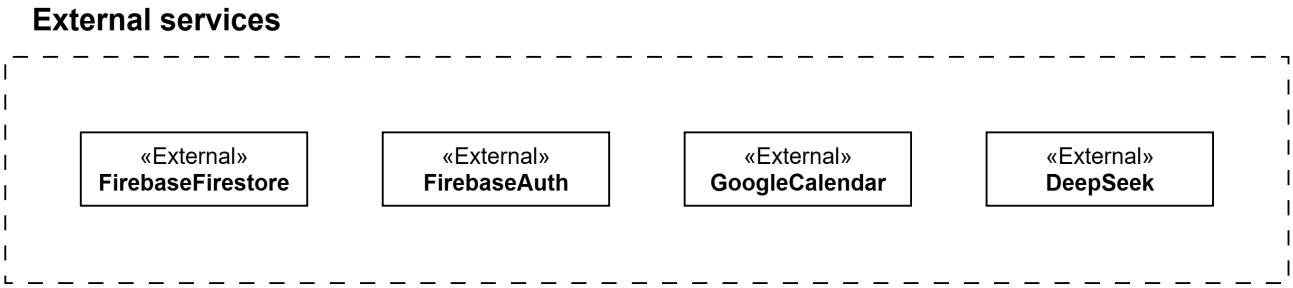
# Domain Layer

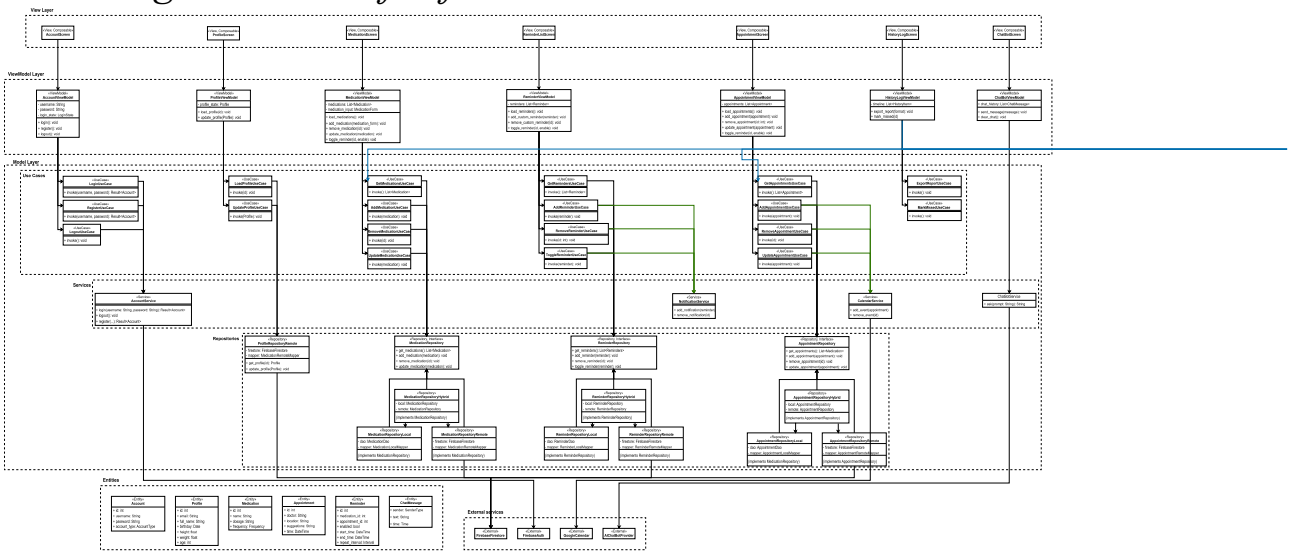


# Data Layer


Repository Implementations
«Repository»
MedicationRepositoryHybrid
- local: MedicationRepository
- remote: MedicationRepository
(implements MedicationRepository)
«Repository»
MedicationRepositoryLocal
- dao: MedicationDao
- mapper: MedicationLocalMapper
(implements MedicationRepository)
«Repository»
MedicationRepositoryRemote
- firestore: FirebaseFirestore
- mapper: MedicationRemoteMapper
(implements MedicationRepository)
«Repository»
ReminderRepositoryHybrid
«Repository»
ReminderRepositoryLocal
«Repository»
ReminderRepositoryRemote
«Repository»
AppointmentRepositoryHybrid
«Repository»
AppointmentRepositoryLocal
«Repository»
AppointmentRepositoryRemote
«Repository»
ProfileRepositoryHybrid
«Repository»
ProfileRepositoryLocal
«Repository»
ProfileRepositoryRemote
Service Implementations
«Service»
AccountServiceFireBaseAuth
- firebase_auth: FirebaseAuth
«Service»
NotificationServiceAndroidNotif
- notification_manager: NotificationManager
«Service»
CalendarServiceGoogleCalendar
- calendar_api: GoogleCalendarAPI
«Service»
ChatBotServiceDeepSeek
- access_token: String
Others
DAO
Room Entities
Mapper
DTO

# External Services



# General class diagram for Medipal

*Note: Some classes have been omitted to save space. Please refer to the class diagrams above for full context.*