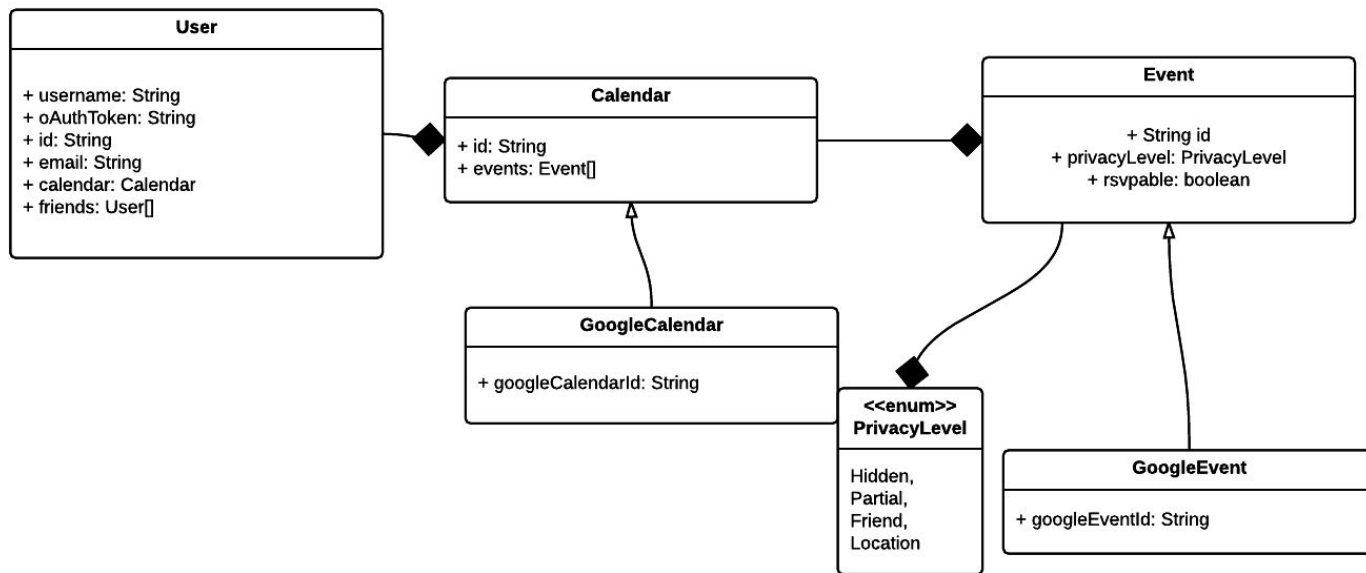# Socala Design

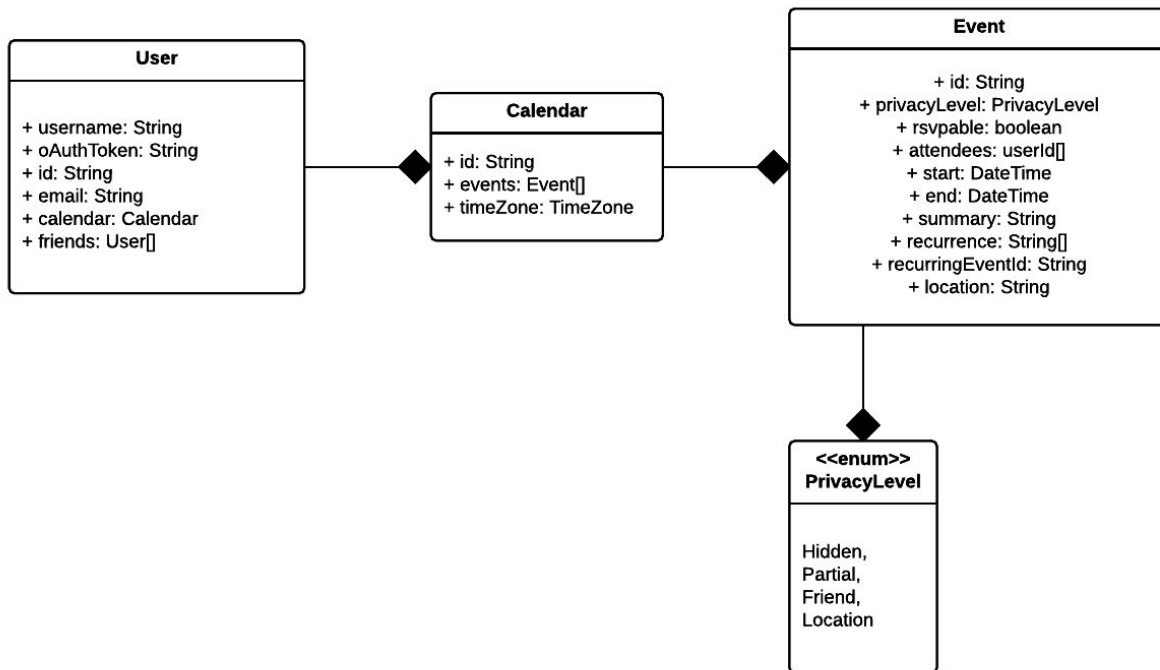CJ Guttormsson, Ben Romano, and Bryan Anderson

What Our Product Is
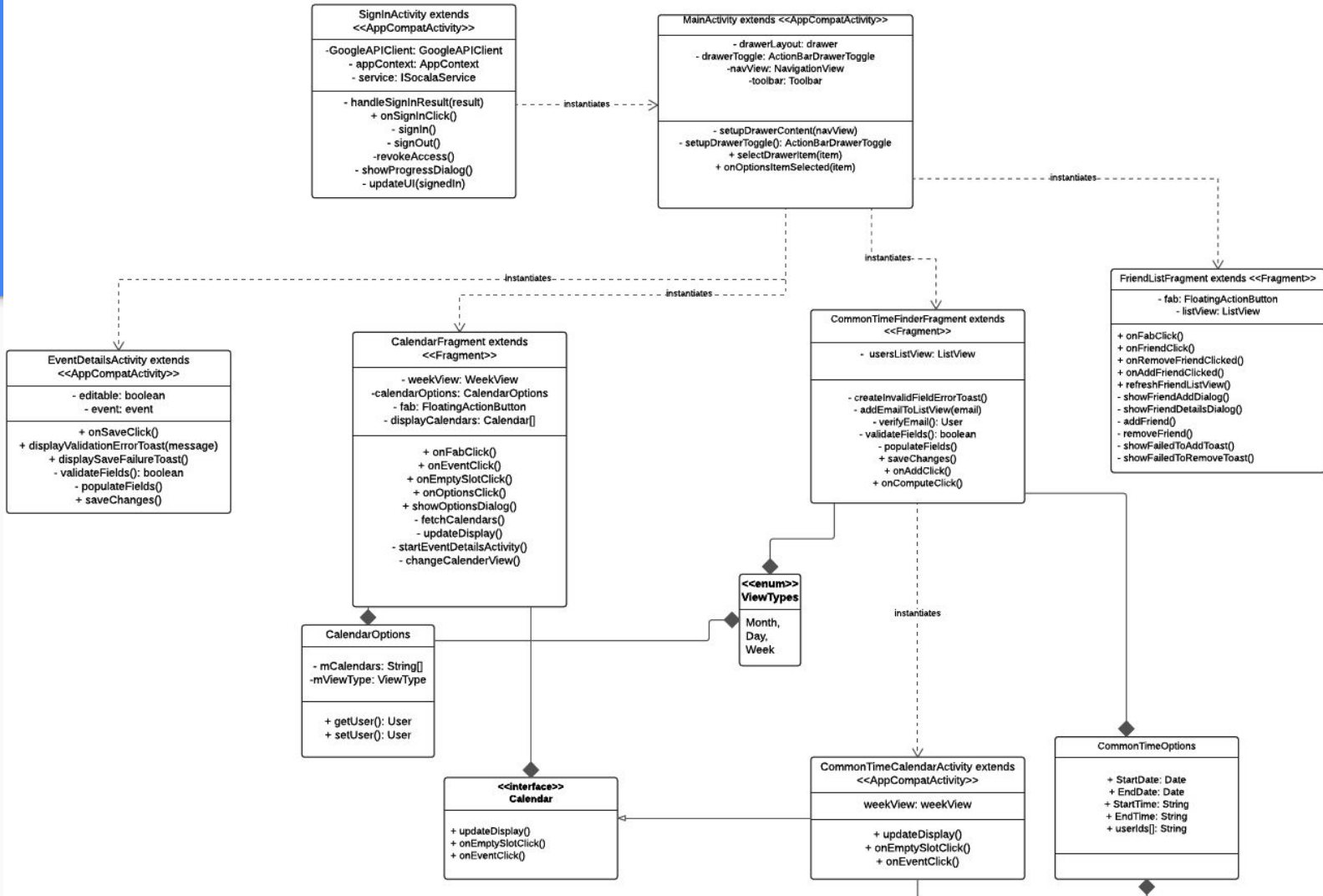
- Problem:
  - Other calendar apps exist, but are limited
  - Coordinating with others can be difficult
  - No way to find new events easily
- Focuses of our calendar
  - Let users share their events with others easily, and with granular control
  - Allow friends or colleagues to find common time easily
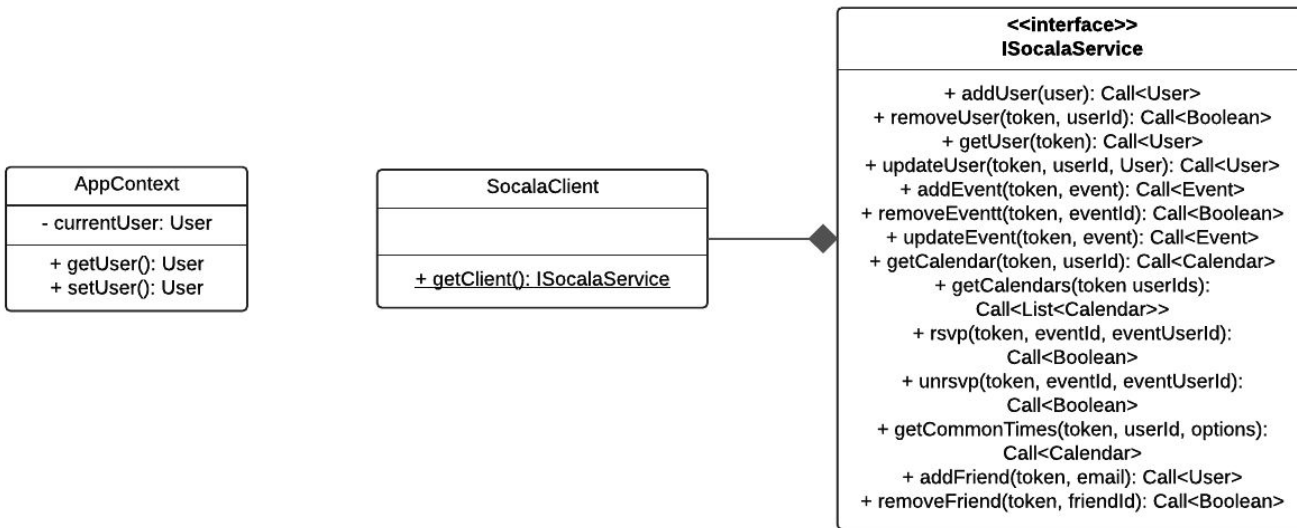 - Make discovery of nearby events seamless
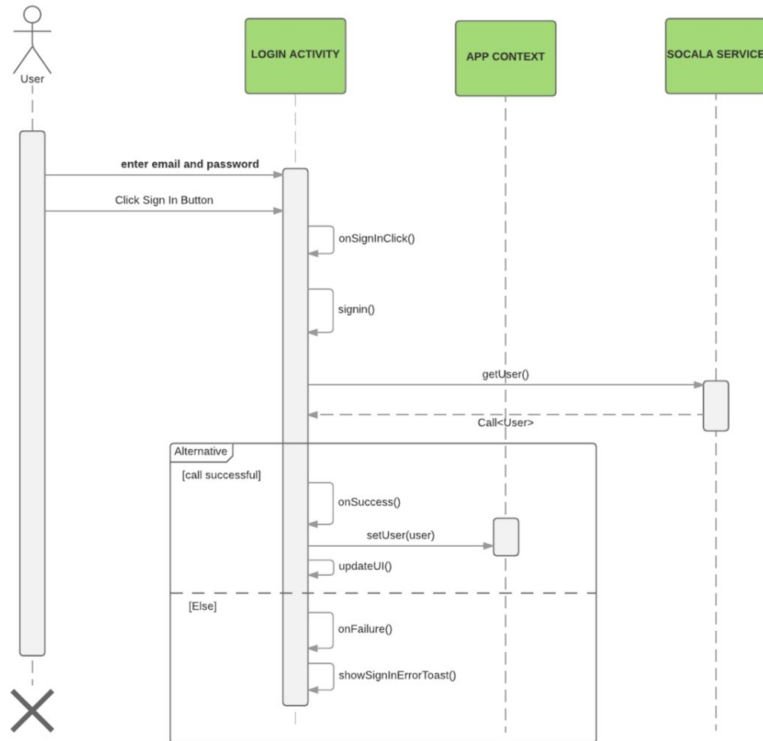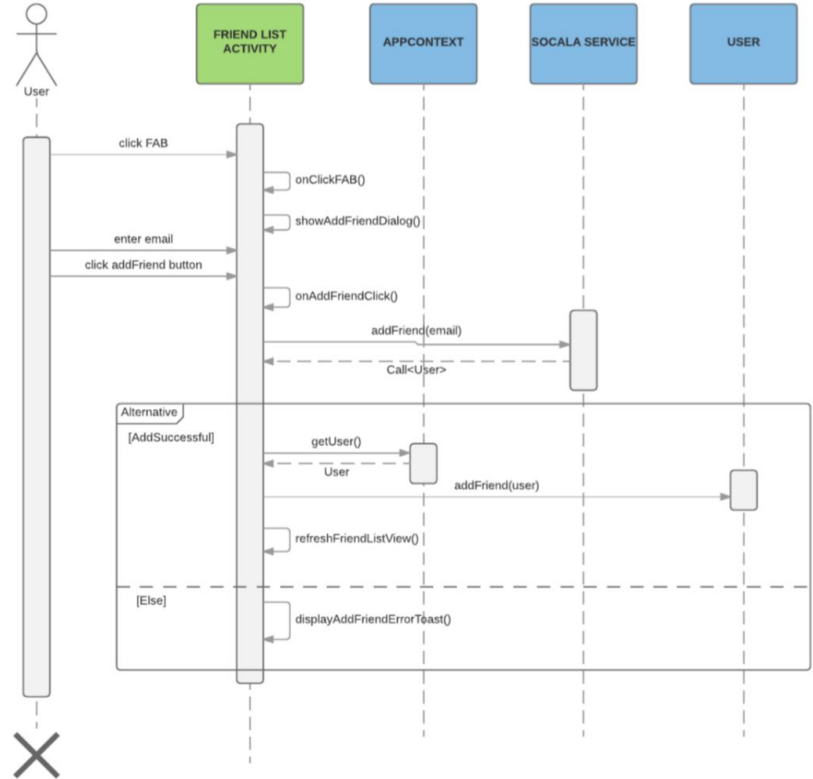
Database Model

Front-end Model

SignInActivity extends <<AppCompatActivity>>

- GoogleAPIClient: GoogleAPIClient
- appContext: AppContext
- service: ISocalaService

- handleSignInResult(result)
+ onSignInClick()
- signIn()
- signOut()
- revokeAccess()
- showProgressDialog()
- updateUI(signedIn)

instantiates

MainActivity extends <<AppCompatActivity>>

- drawerLayout: drawer
- drawerToggle: ActionBarDrawerToggle
- navView: NavigationView
- toolbar: Toolbar

- setupDrawerContent(navView)
- setupDrawerToggle(): ActionBarDrawerToggle
+ selectDrawerItem(item)
+ onOptionsItemSelected(item)

instantiates

FriendListFragment extends <<Fragment>>

- fab: FloatingActionButton
- listView: ListView

+ onFabClick()
+ onFriendClick()
+ onRemoveFriendClicked()
+ onAddFriendClicked()
+ refreshFriendListView()
- showFriendAddDialog()
- showFriendDetailsDialog()
- addFriend()
- removeFriend()
- showFailedToAddToast()
- showFailedToRemoveToast()

instantiates

instantiates

EventDetailsActivity extends <<AppCompatActivity>>

- editable: boolean
- event: event

+ onSaveClick()
+ displayValidationErrorToast(message)
+ displaySaveFailureToast()
- validateFields(): boolean
- populateFields()
+ saveChanges()

CalendarFragment extends <<Fragment>>

- weekView: WeekView
- calendarOptions: CalendarOptions
- fab: FloatingActionButton
- displayCalendars: Calendar[]

+ onFabClick()
+ onEventClick()
+ onEmptySlotClick()
+ onOptionsClick()
+ showOptionsDialog()
- fetchCalendars()
- updateDisplay()
- startEventDetailsActivity()
- changeCalenderView()

CommonTimeFinderFragment extends <<Fragment>>

- usersListView: ListView

- createInvalidFieldErrorToast()
- addEmailToListView(email)
- verifyEmail(): User
- validateFields(): boolean
- populateFields()
+ saveChanges()
+ onAddClick()
+ onComputeClick()

<<enum>> ViewTypes

Month,
Day,
Week

CalendarOptions

- mCalendars: String[]
- mViewType: ViewType

+ getUser(): User
+ setUser(): User

<<interface>> Calendar

+ updateDisplay()
+ onEmptySlotClick()
+ onEventClick()

CommonTimeCalendarActivity extends <<AppCompatActivity>>

weekView: weekView

+ updateDisplay()
+ onEmptySlotClick()
+ onEventClick()

CommonTimeOptions

+ StartDate: Date
+ EndDate: Date
+ StartTime: String
+ EndTime: String
+ userIds[]: String

instantiates

App Contexts and Services

AppContext

- currentUser: User

+ getUser(): User
+ setUser(): User

SocalaClient

+ getClient(): ISocalaService

<<interface>>
ISocalaService

+ addUser(user): Call<User>
+ removeUser(token, userId): Call<Boolean>
+ getUser(token): Call<User>
+ updateUser(token, userId, User): Call<User>
+ addEvent(token, event): Call<Event>
+ removeEventt(token, eventId): Call<Boolean>
+ updateEvent(token, event): Call<Event>
+ getCalendar(token, userId): Call<Calendar>
+ getCalendars(token userIds):
    Call<List<Calendar>>
+ rsvp(token, eventId, eventUserId):
    Call<Boolean>
+ unrsvp(token, eventId, eventUserId):
    Call<Boolean>
+ getCommonTimes(token, userId, options):
    Call<Calendar>
+ addFriend(token, email): Call<User>
+ removeFriend(token, friendId): Call<Boolean>

Sign In

Add Friend

Common Time Finder

Add/Edit Event

REST API ENDPOINTS

Add User:
POST /user/
Body: User
Response: User

Get User:
GET /user/
Headers:
      Authorization: OAuthToken
Response: User

Delete User:
DELETE /user/{id}
Headers:
      Authorization: OAuthToken
Response: Boolean

Get Calendar
GET /calendar/{userId}
Headers:
      Authorization: OAuthToken
Response: Calendar

Remove Friend
GET /user/friend/remove?email
Headers:
      Authorization: OAuthToken
Response: Boolean

Update User:
PUT /user/{id}
Headers:
      Authorization: OAuthToken
Body: User
Response: Boolean

Add Event
POST /event/
Headers:
      Authorization: OAuthToken
Body: Event
Response: Event

Update Event
Put /event/{id}
Headers:
      Authorization: OAuthToken
Body: Event
Response: Event

Delete Event
DELETE /event/{id}
Headers:
      Authorization: OAuthToken
Response: Boolean

Get Calendars
POST /calendars/
Headers:
      Authorization: OAuthToken
Body: userId[]
Response: Calendar

RSVP
GET /user/{id}/rsvp/{eventId}
Headers:
      Authorization: OAuthToken
Response: Boolean

UNRSVP
GET /user/{id}/unrsvp/{eventId}
Headers:
      Authorization: OAuthToken
Response: Boolean

Get Common Time
GET /events/commonTimes
Headers:
      Authorization: OAuthToken
Body: CommonTimeFinderOptions
Response: Calendar

Add Friend
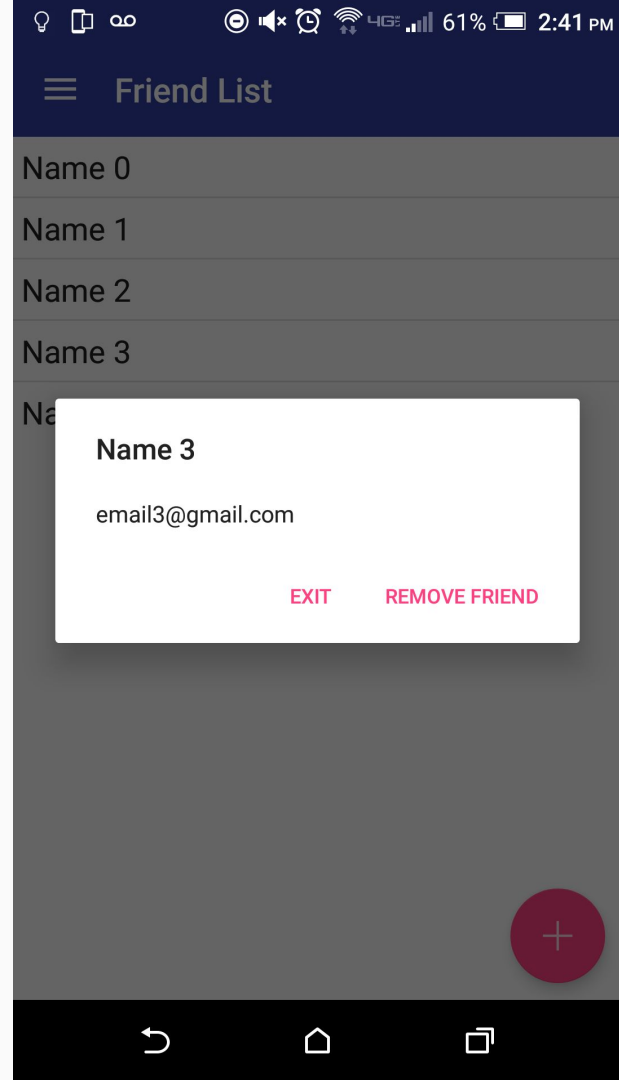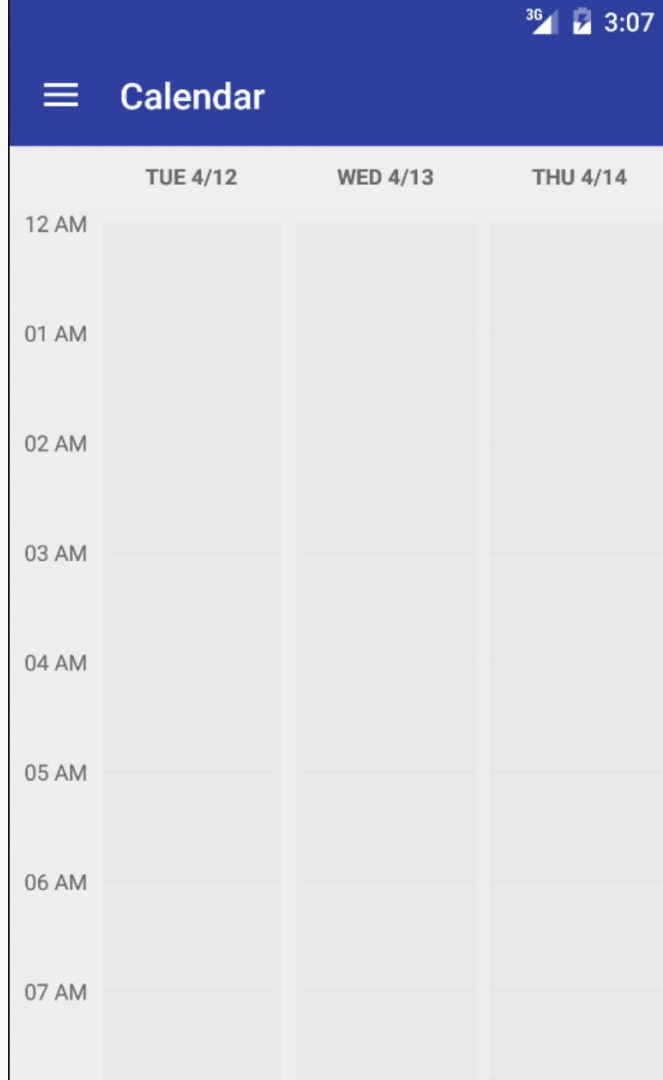GET /user/friend/add?email
Headers:
      Authorization: OAuthToken
Response: User

Summary and Conclusion