Three TriΔngles Design

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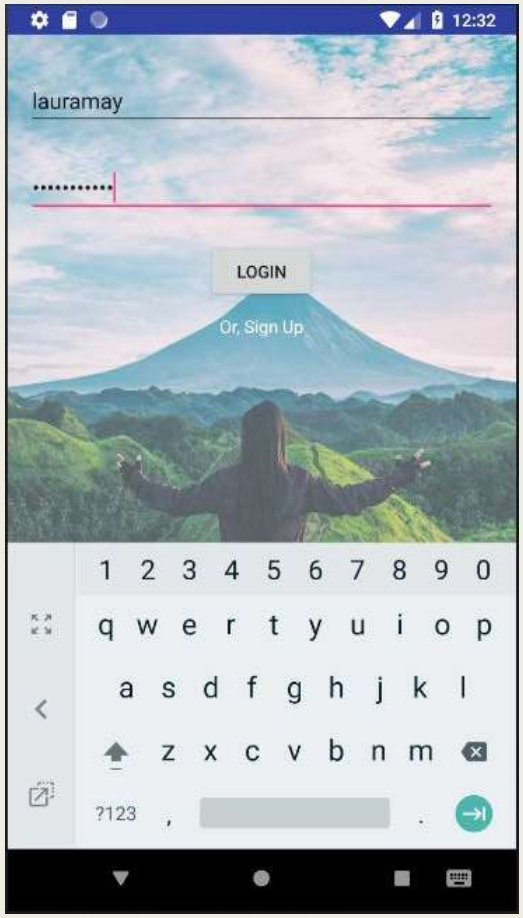
Problem Definition

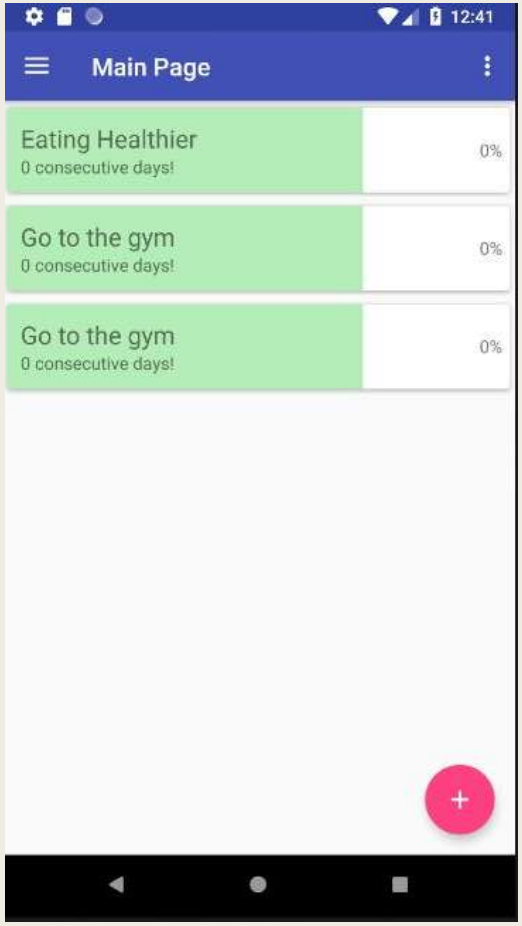
- Provide a gamified approach to habits
- Allow users to track progress
- Simple, fun presentation

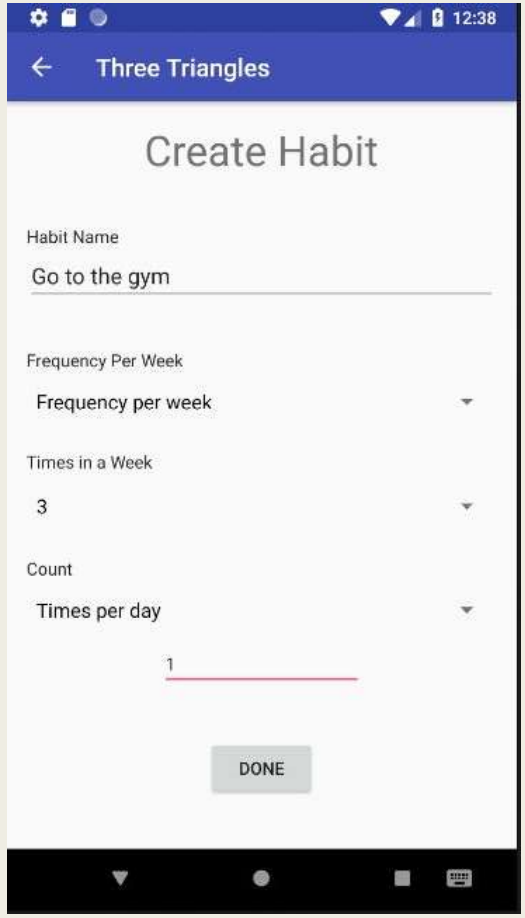
Scope

- Achieve minimum viable product before the deadline
- Fine tune the app
- Add additional features
- Easy, fun, simple
- Can be utilized by any age group
- Everyone has habits

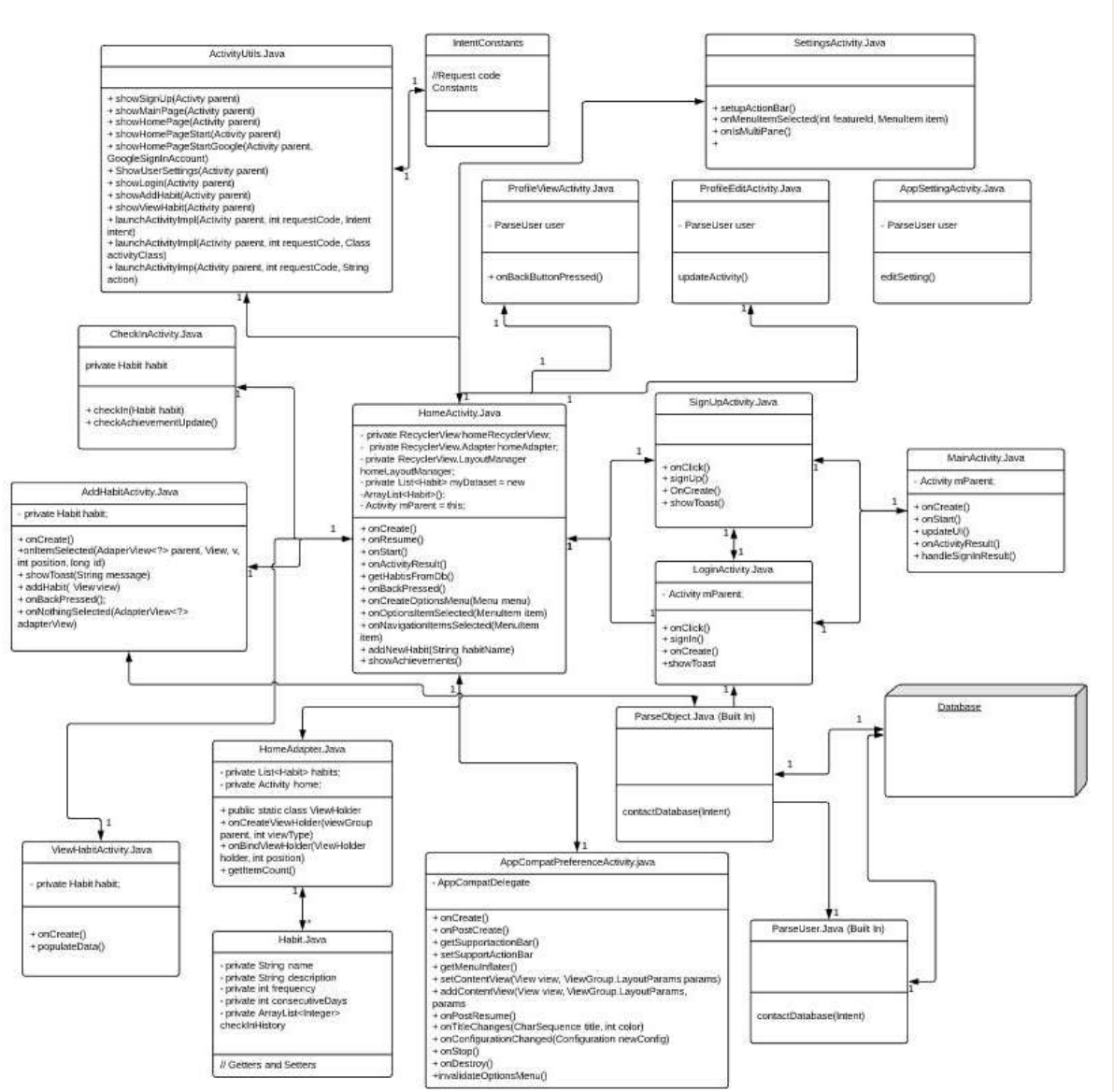
12:30
SIGNUP
GOOGLE SIGN IN
LOGIN

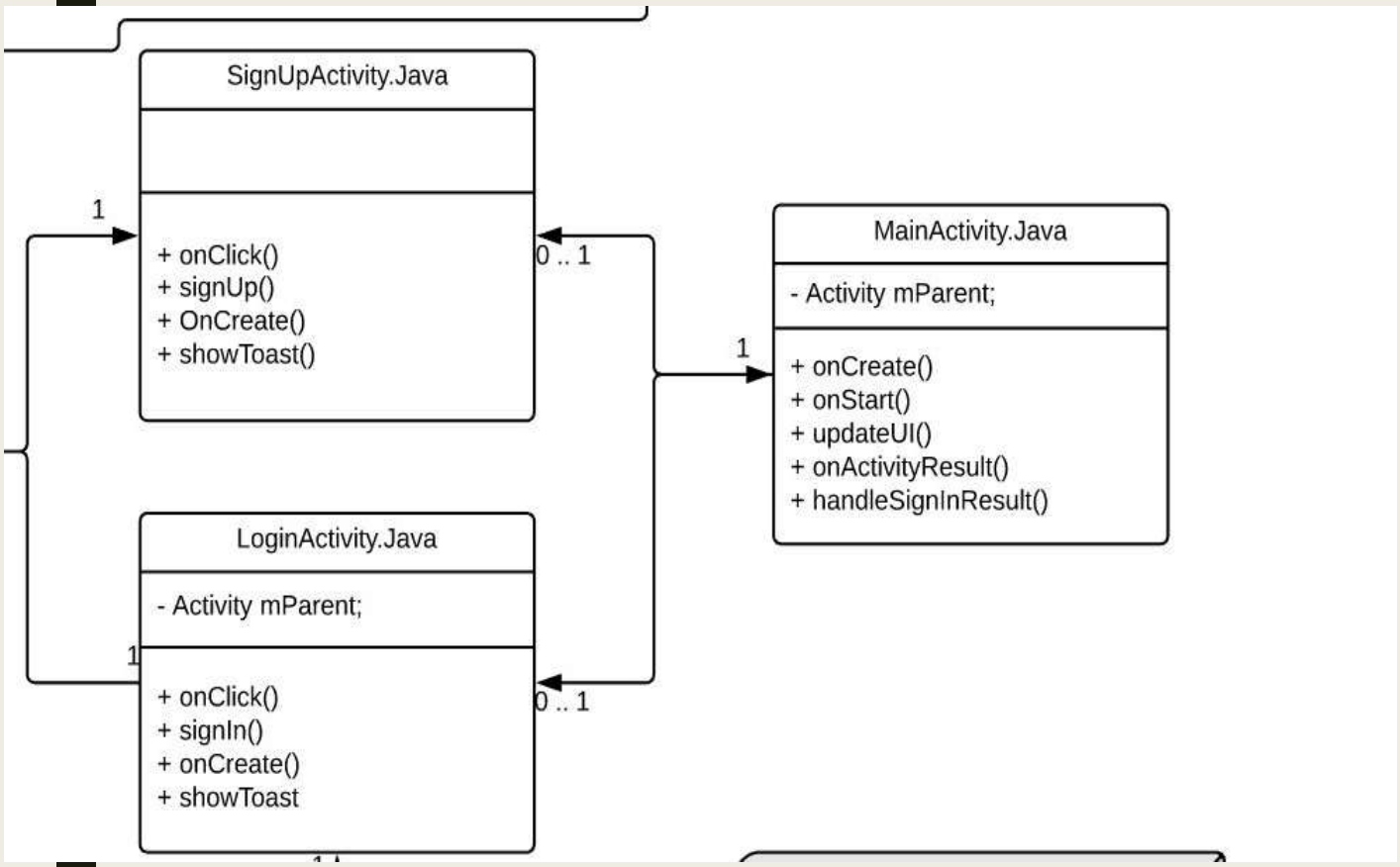

12:32
lauramay
LOGIN
Or, Sign Up


12:41
Main Page
Eating Healthier
0 consecutive days!
0%
Go to the gym
0 consecutive days!
0%
Go to the gym
0 consecutive days!
0%


12:38
Three Triangles
Create Habit
Habit Name
Go to the gym
Frequency Per Week
Frequency per week
Times in a Week
3
Count
Times per day
1
DONE

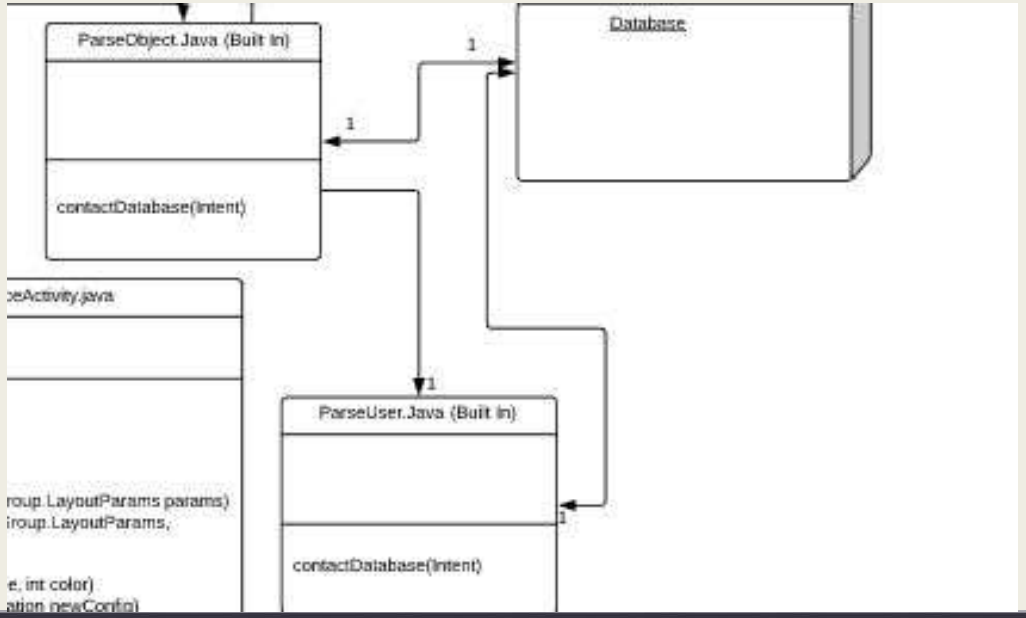
Class Diagram




SignUpActivity.Java
+ onClick()
+ signUp()
+ OnCreate()
+ showToast()
MainActivity.Java
- Activity mParent;
+ onCreate()
+ onStart()
+ updateUI()
+ onActivityResult()
+ handleSignInResult()
LoginActivity.Java
- Activity mParent;
+ onClick()
+ signIn()
+ onCreate()
+ showToast
1
0 .. 1
1
1
0 .. 1

12:30
SIGNUP
GOOGLE SIGN IN
LOGIN

12:32
lauramay
LOGIN
Or, Sign Up



PARSE DASHBOARD 1.1.2

My Bitnami Parse API

Core

Browser — Create a class

- Role 0
- Session 2
- User 1
- ExampleObject 2

Webhooks

Jobs

Logs

Config

API Console

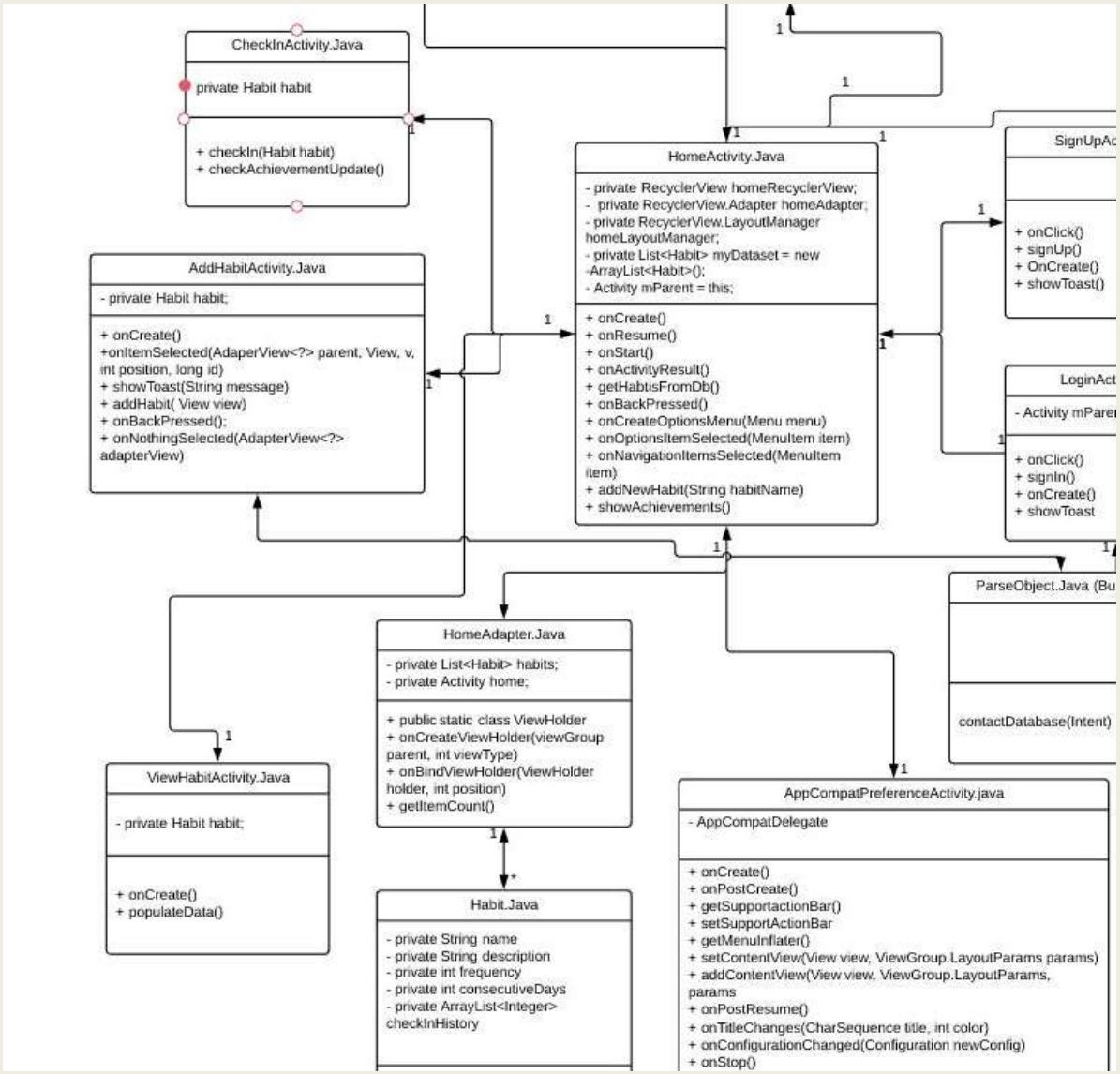
Push

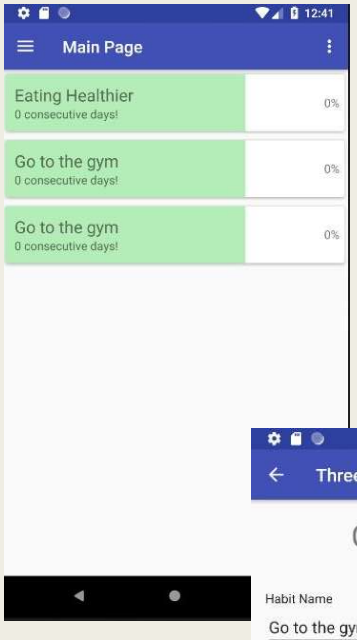
CLASS

Session — 2 objects • Public Read and Write enabled

Add Row | Refresh | Filter | Security | Edit

objectId String	sessionToken String	expiresAt Date	ACL ACL	user Pointer <_User>	updatedAt Date	createdWith Object	installationId Str…	restricted Boolean	createdAt Date
uyoOtol6Fn	(hidden)	13 Feb 2019 at 16:…	Public Read + Write	AFIXGS2J3B	13 Feb 2018 at 16:…	{"action":"signup"…	1ecda294-d998-49e6…	False	13 Feb 2018 at 16:…
KP5HCV9rN5	(hidden)	13 Feb 2019 at 16:…	Public Read + Write	0S3LRiCj2b	13 Feb 2018 at 16:…	{"action":"signup"…	63937d3f-8a8f-4850…	False	13 Feb 2018 at 16:…


CheckInActivity.Java
private Habit habit
+ checkIn(Habit habit)
+ checkAchievementUpdate()
HomeActivity.Java
- private RecyclerView homeRecyclerView;
- private RecyclerView.Adapter homeAdapter;
- private RecyclerView.LayoutManager homeLayoutManager;
- private List<Habit> myDataset = new ArrayList<Habit>();
- Activity mParent = this;
+ onCreate()
+ onResume()
+ onStart()
+ onActivityResult()
+ getHabtisFromDb()
+ onBackPressed()
+ onCreateOptionsMenu(Menu menu)
+ onOptionsItemSelected(MenuItem item)
+ onNavigationItemsSelected(MenuItem item)
+ addNewHabit(String habitName)
+ showAchievements()
SignUpAc
+ onClick()
+ signUp()
+ OnCreate()
+ showToast()
LoginAct
- Activity mParer
+ onClick()
+ signIn()
+ onCreate()
+ showToast
AddHabitActivity.Java
- private Habit habit;
+ onCreate()
+onItemSelected(AdaperView<?> parent, View, v, int position, long id)
+ showToast(String message)
+ addHabit(View view)
+ onBackPressed();
+ onNothingSelected(AdapterView<?> adapterView)
HomeAdapter.Java
- private List<Habit> habits;
- private Activity home;
+ public static class ViewHolder
+ onCreateViewHolder(viewGroup parent, int viewType)
+ onBindViewHolder(ViewHolder holder, int position)
+ getItemCount()
ParseObject.Java (Bu
contactDatabase(Intent)
ViewHabitActivity.Java
- private Habit habit;
+ onCreate()
+ populateData()
Habit.Java
- private String name
- private String description
- private int frequency
- private int consecutiveDays
- private ArrayList<Integer> checkInHistory
AppCompatPreferenceActivity.java
- AppCompatDelegate
+ onCreate()
+ onPostCreate()
+ getSupportactionBar()
+ setSupportActionBar
+ getMenuInflater()
+ setContentView(View view, ViewGroup.LayoutParams params)
+ addContentView(View view, ViewGroup.LayoutParams, params
+ onPostResume()
+ onTitleChanges(CharSequence title, int color)
+ onConfigurationChanged(Configuration newConfig)
+ onStop()


12:41
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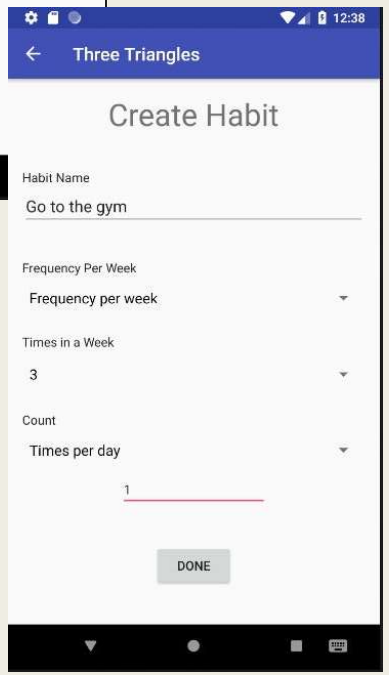
Eating Healthier
0 consecutive days!
0%
Go to the gym
0 consecutive days!
0%
Go to the gym
0 consecutive days!
0%


12:38
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Habit Name
Go to the gym
Frequency Per Week
Frequency per week
Times in a Week
3
Count
Times per day
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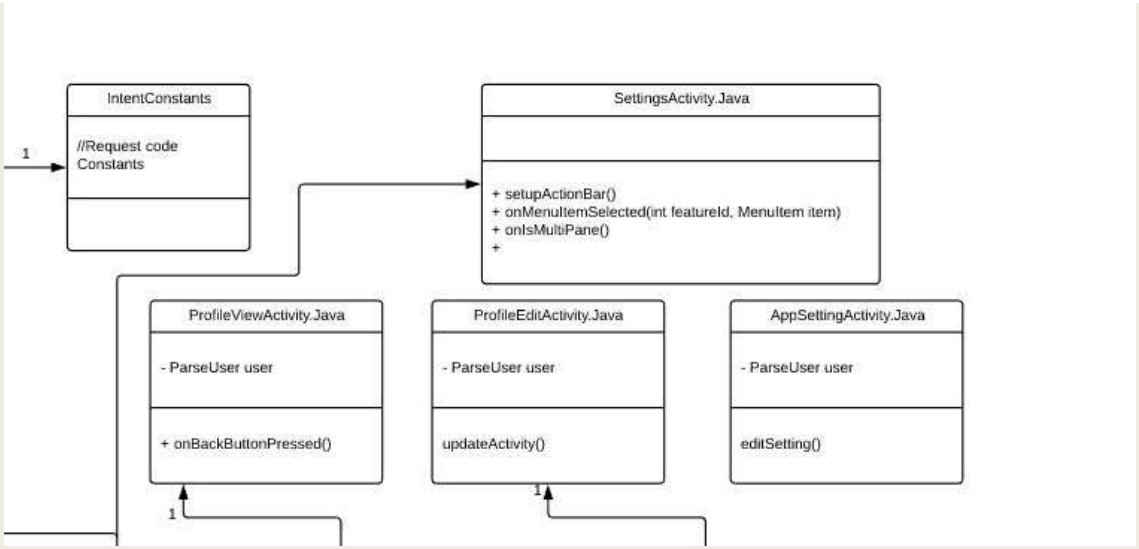
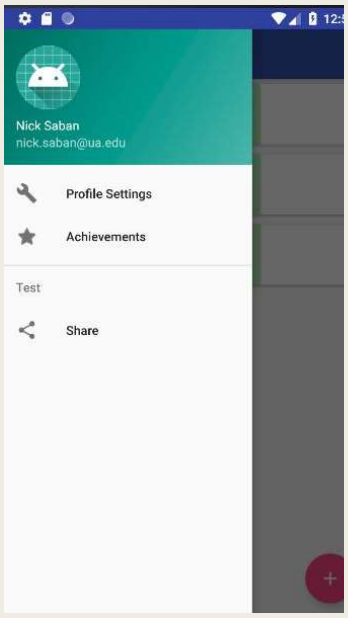
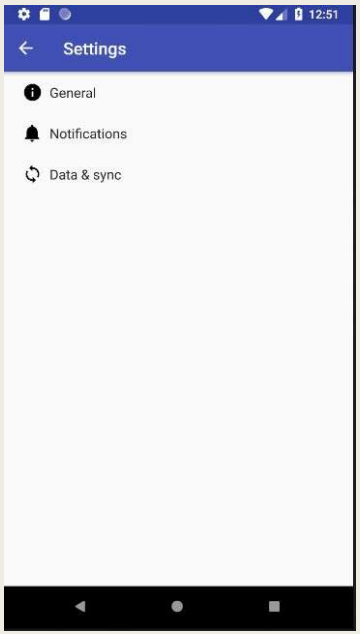
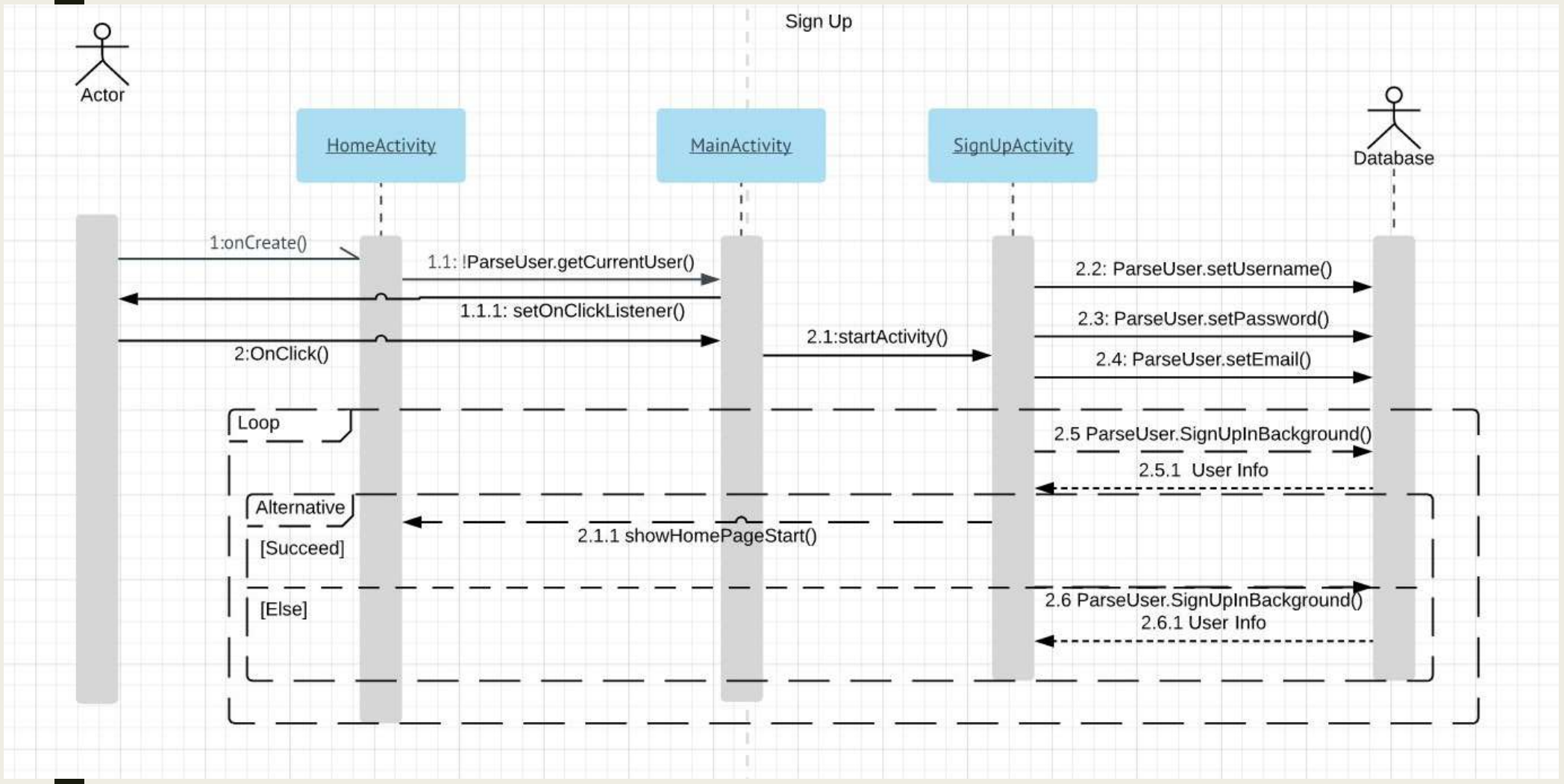
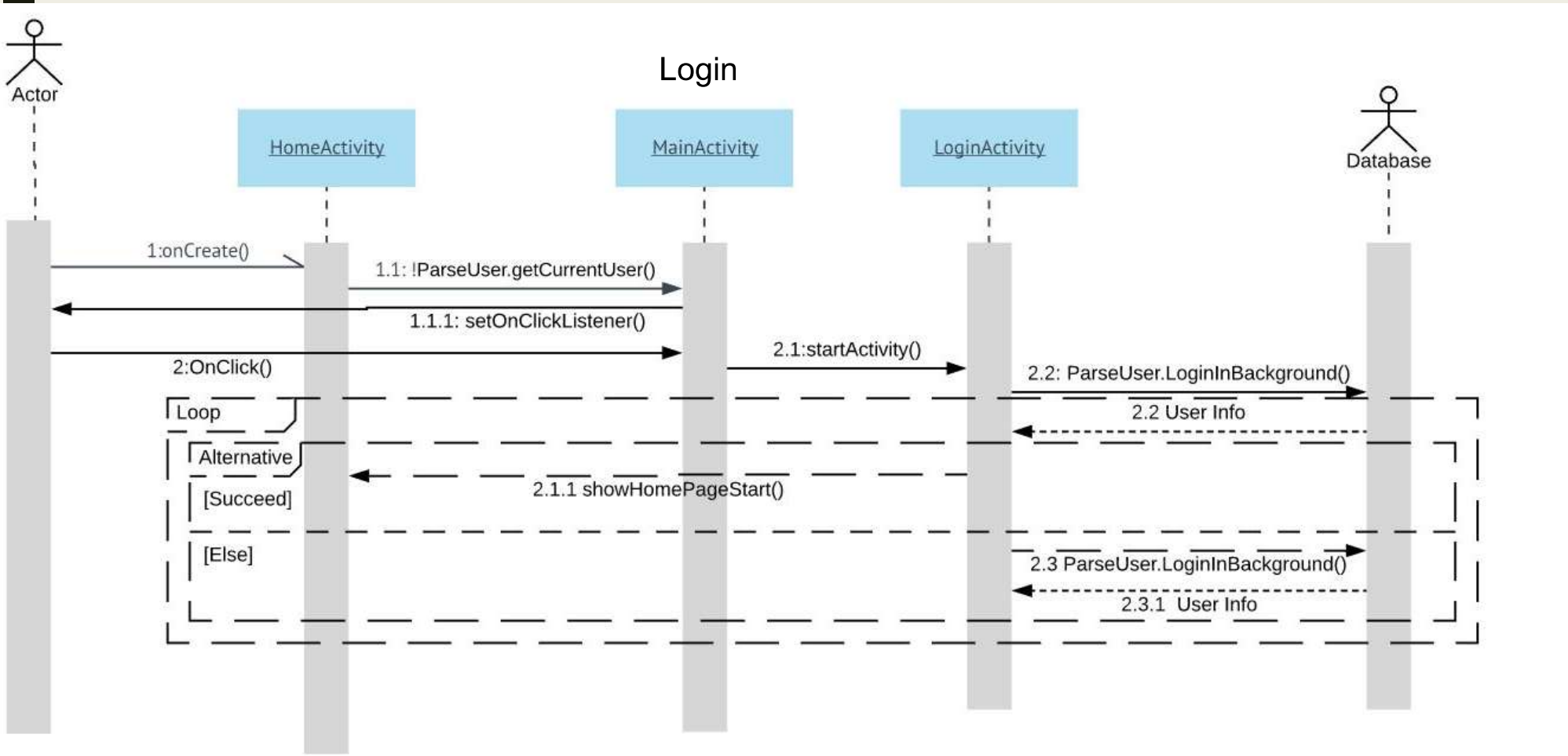
DONE


IntentConstants
//Request code Constants
SettingsActivity.Java
+ setupActionBar()
+ onMenuItemSelected(int featureId, MenuItem item)
+ onIsMultiPane()
+
ProfileViewActivity.Java
- ParseUser user
+ onBackButtonPressed()
ProfileEditActivity.Java
- ParseUser user
updateActivity()
AppSettingActivity.Java
- ParseUser user
editSetting()
1
1
1

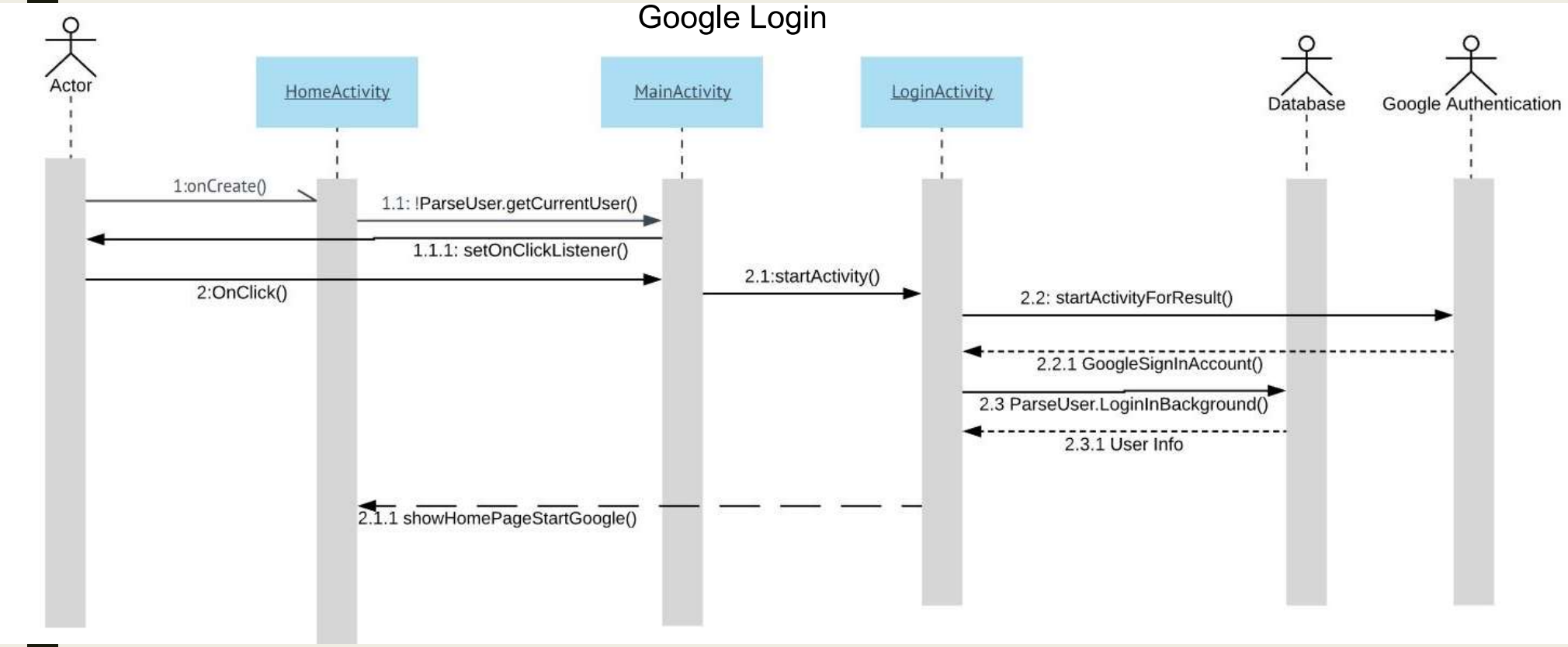

Nick Saban
nick.saban@ua.edu
Profile Settings
Achievements
Test
Share

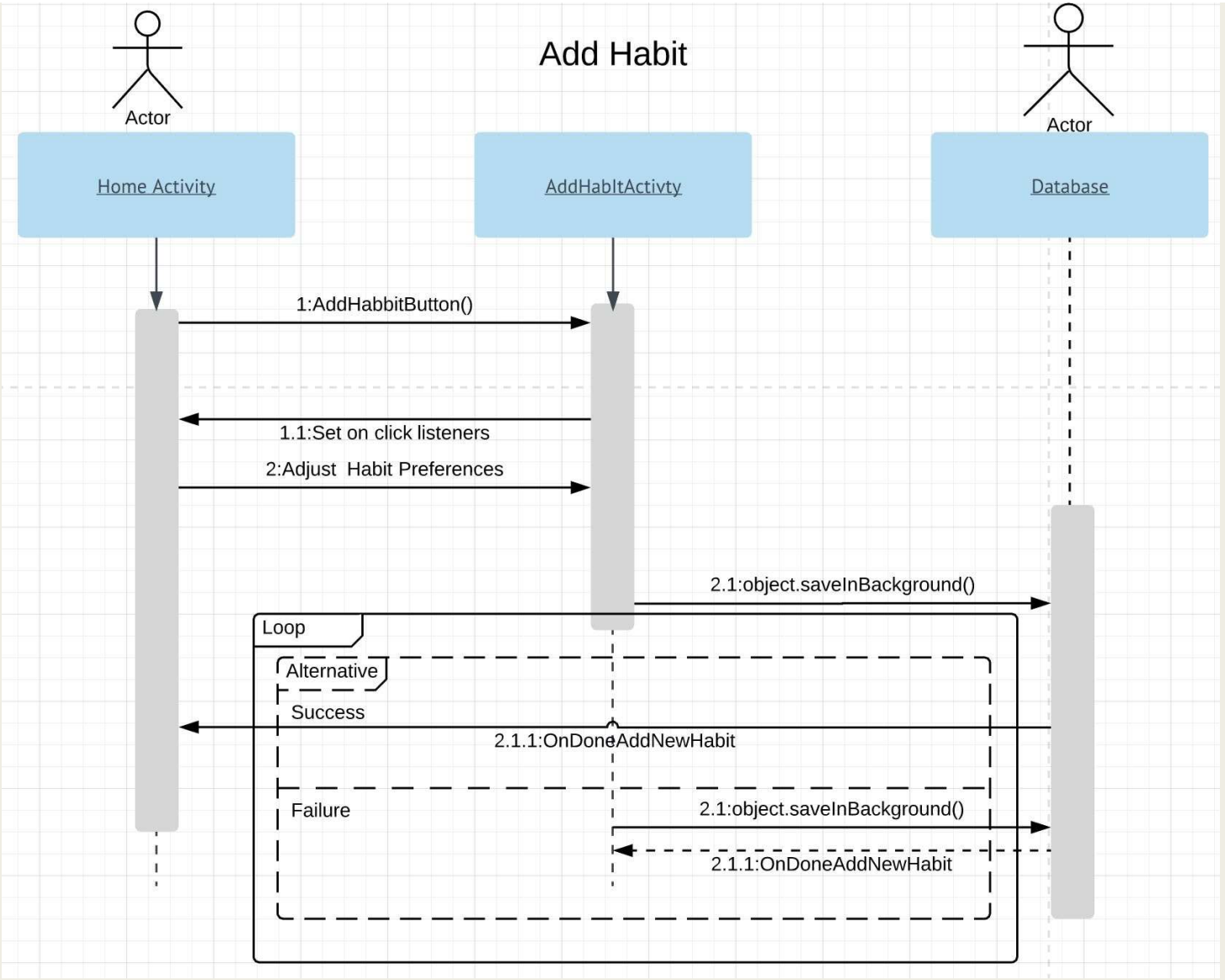

12:51
Settings
General
Notifications
Data & sync


Sign Up
Actor
HomeActivity
MainActivity
SignUpActivity
Database
1:onCreate()
1.1: !ParseUser.getCurrentUser()
1.1.1: setOnClickListener()
2:OnClick()
2.1:startActivity()
2.2: ParseUser.setUsername()
2.3: ParseUser.setPassword()
2.4: ParseUser.setEmail()
Loop
2.5 ParseUser.SignUpInBackground()
2.5.1 User Info
Alternative
2.1.1 showHomePageStart()
[Succeed]
[Else]
2.6 ParseUser.SignUpInBackground()
2.6.1 User Info

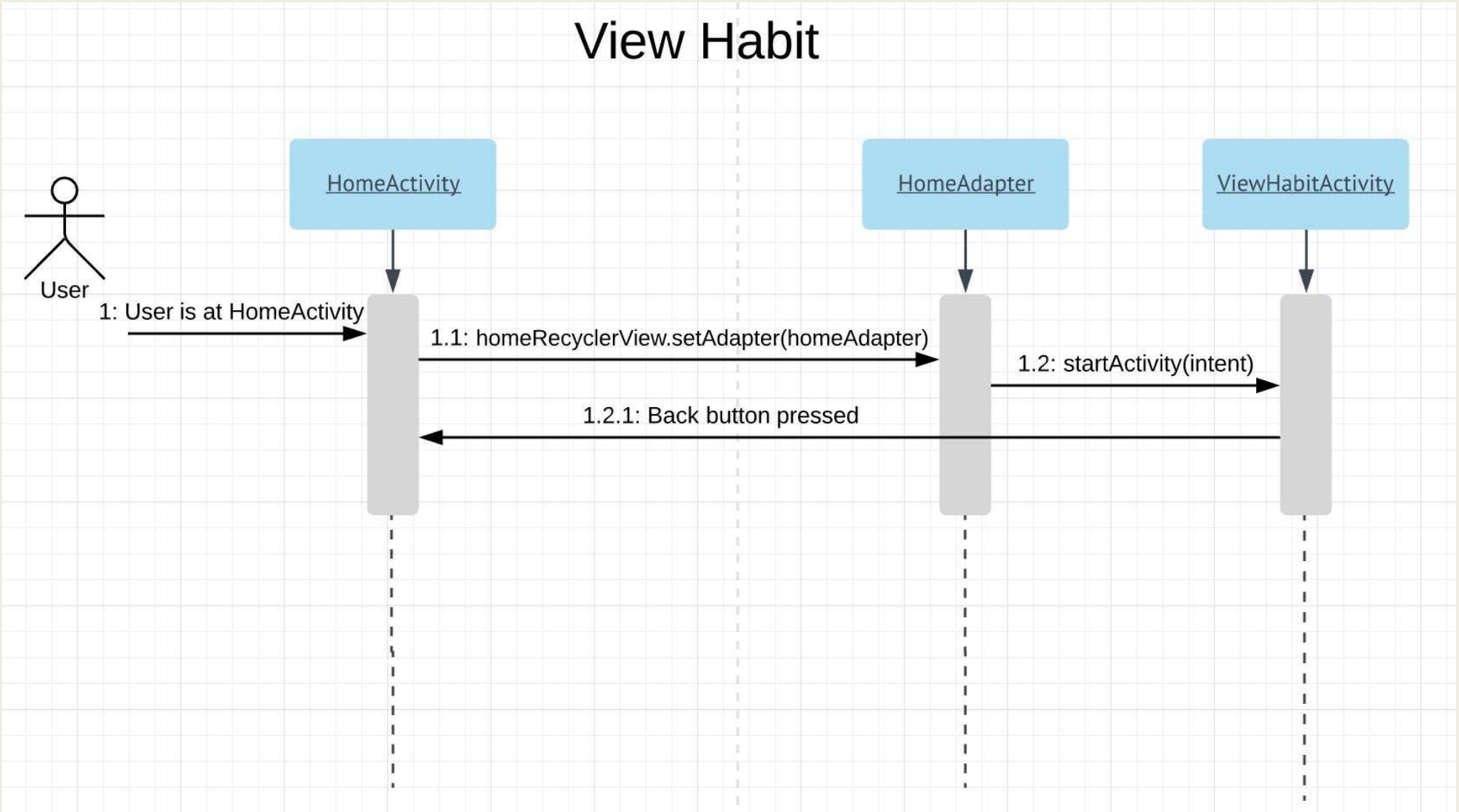

Login
Actor
HomeActivity
MainActivity
LoginActivity
Database
1:onCreate()
1.1: !ParseUser.getCurrentUser()
1.1.1: setOnClickListener()
2:OnClick()
2.1:startActivity()
2.2: ParseUser.LoginInBackground()
2.2 User Info
Loop
Alternative
[Succeed]
2.1.1 showHomePageStart()
[Else]
2.3 ParseUser.LoginInBackground()
2.3.1 User Info

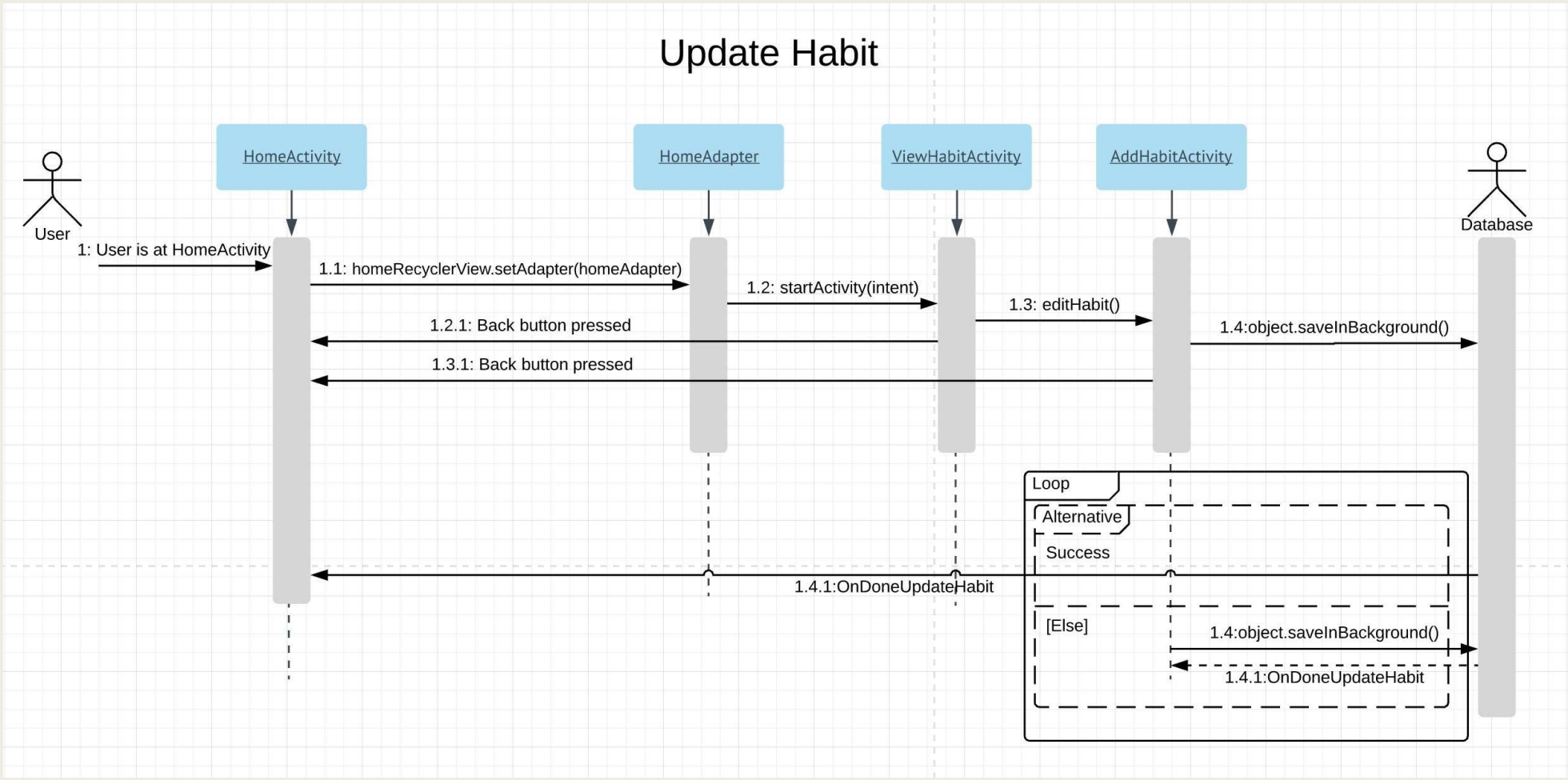
Google Login

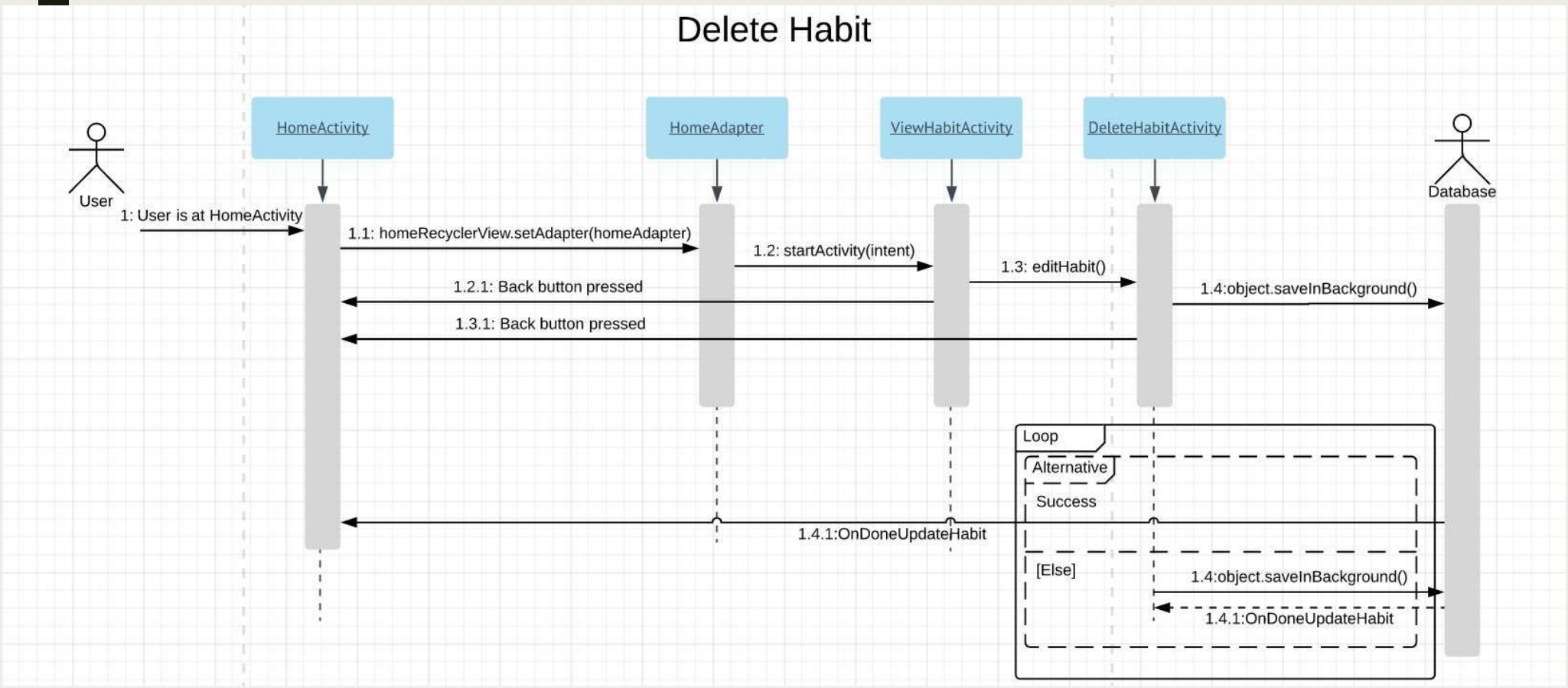


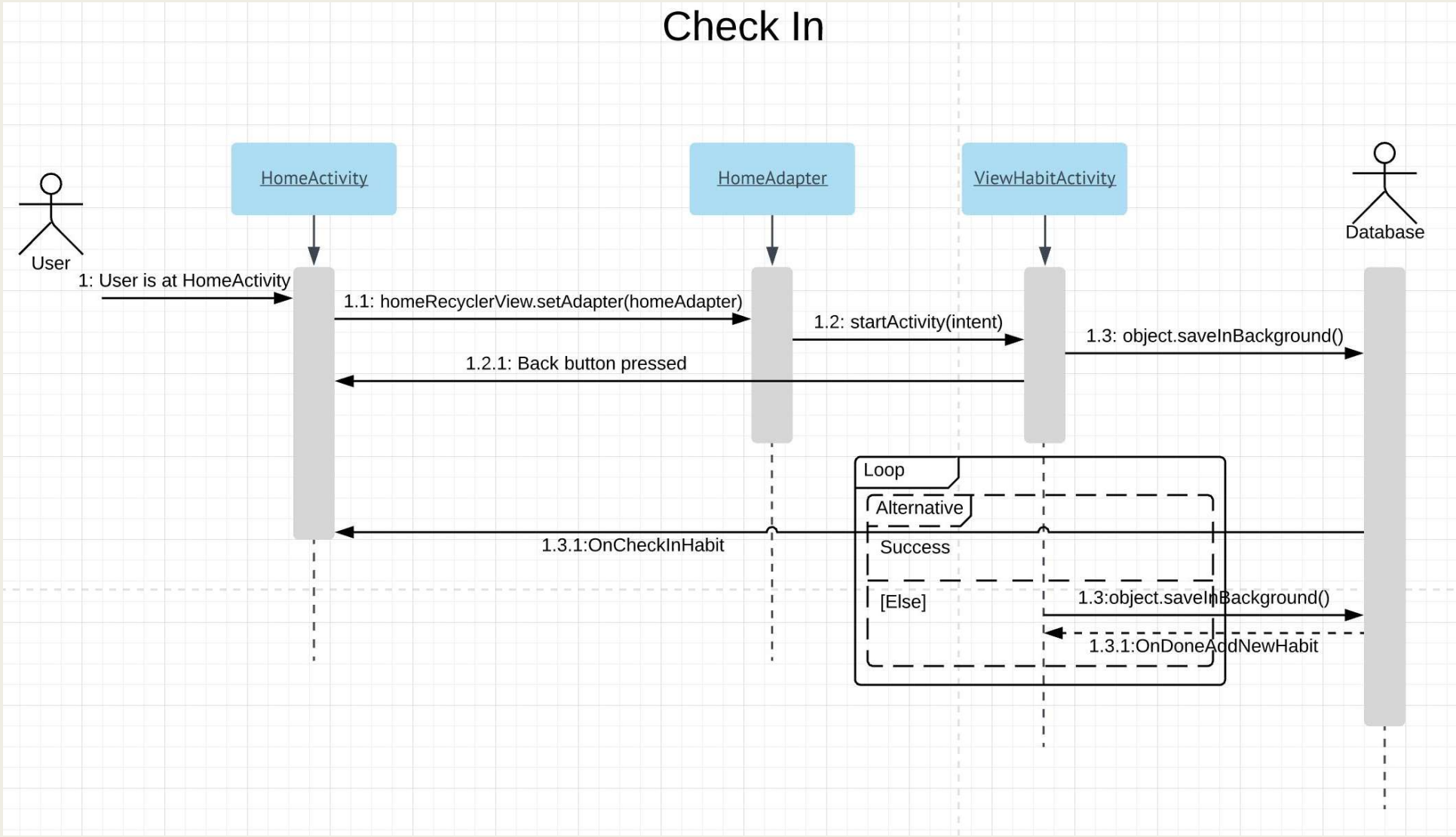

Add Habit
Actor
Actor
Home Activity
AddHabItActivty
Database
1:AddHabbitButton()
1.1:Set on click listeners
2:Adjust Habit Preferences
2.1:object.saveInBackground()
Loop
Alternative
Success
2.1.1:OnDoneAddNewHabit
Failure
2.1:object.saveInBackground()
2.1.1:OnDoneAddNewHabit

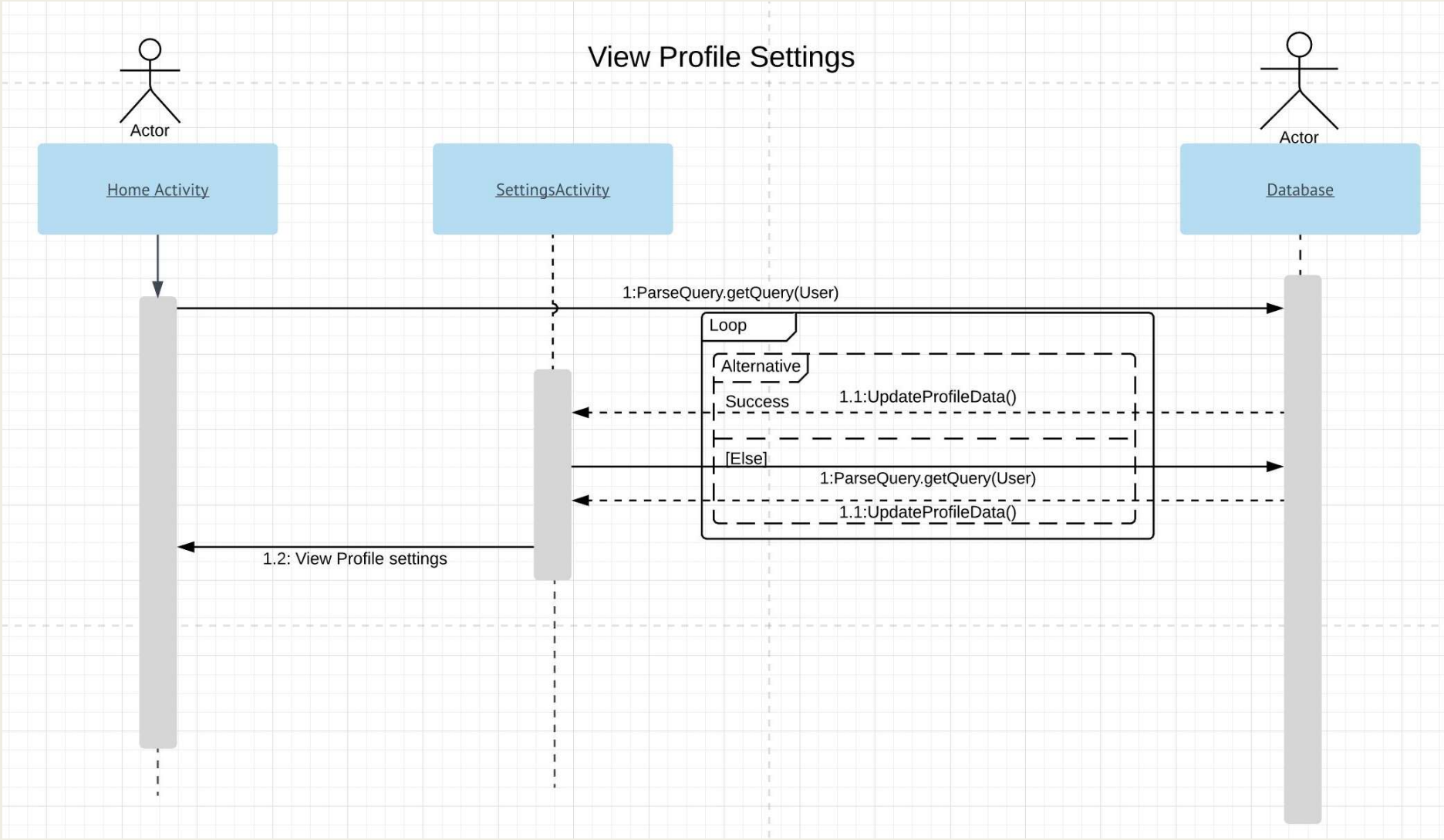
View Habit

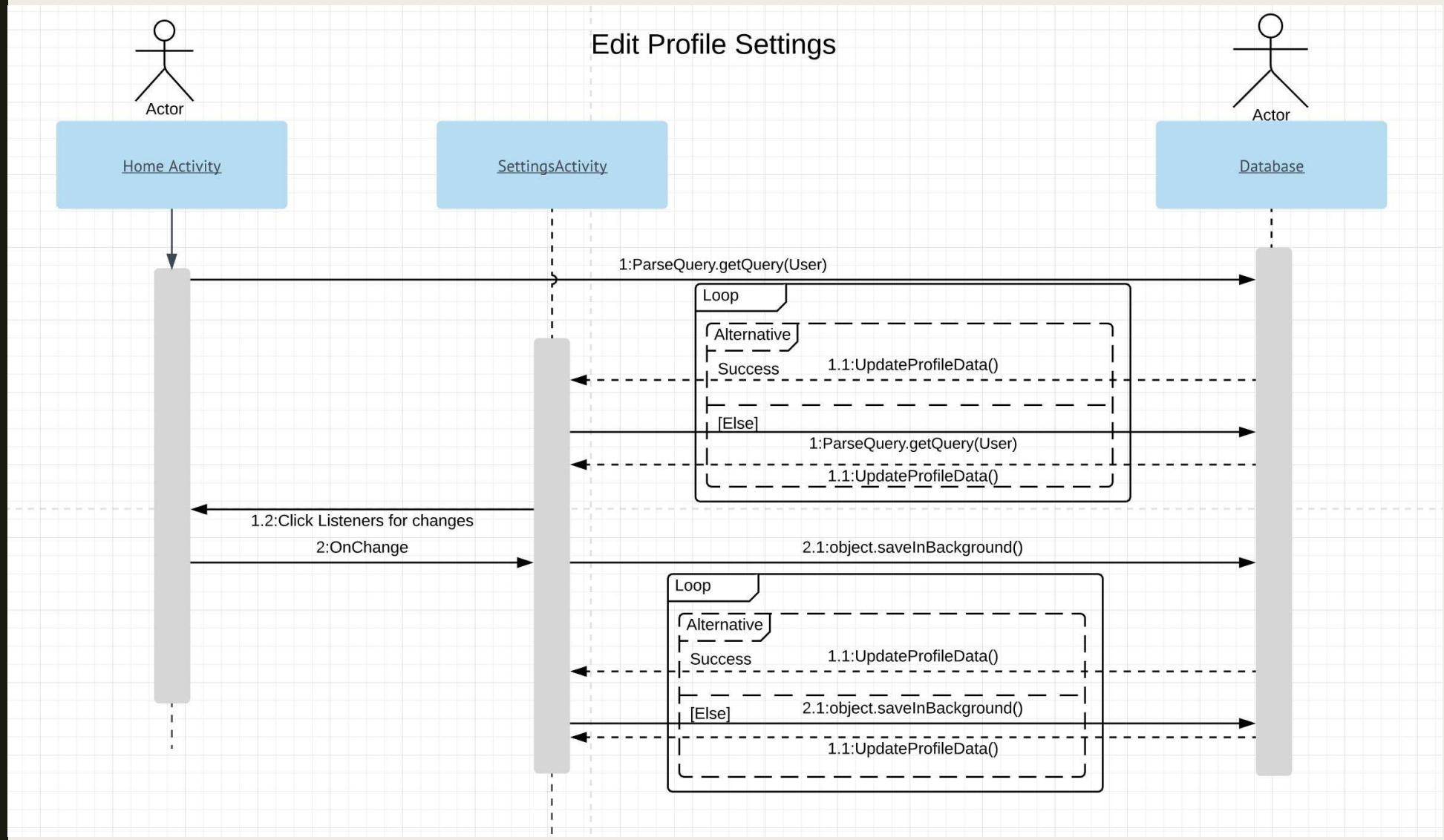

HomeActivity
HomeAdapter
ViewHabitActivity
User
1: User is at HomeActivity
1.1: homeRecyclerView.setAdapter(homeAdapter)
1.2: startActivity(intent)
1.2.1: Back button pressed

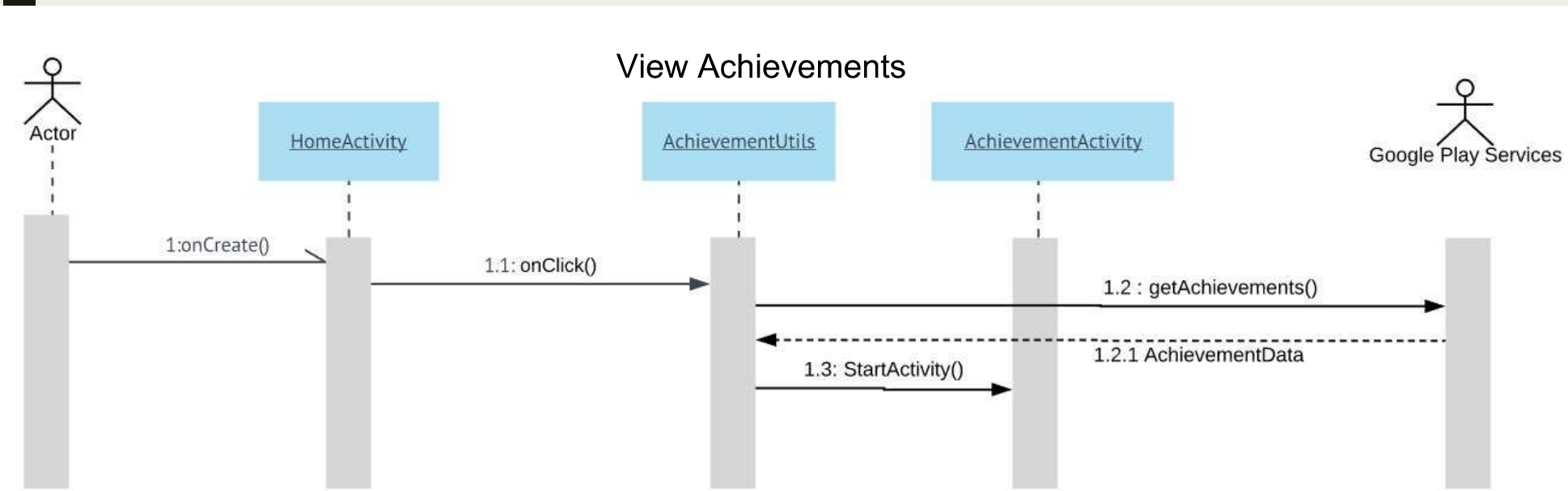

Update Habit
User
HomeActivity
HomeAdapter
ViewHabitActivity
AddHabitActivity
Database
1: User is at HomeActivity
1.1: homeRecyclerView.setAdapter(homeAdapter)
1.2: startActivity(intent)
1.3: editHabit()
1.4:object.saveInBackground()
1.2.1: Back button pressed
1.3.1: Back button pressed
Loop
Alternative
Success
1.4.1:OnDoneUpdateHabit
[Else]
1.4:object.saveInBackground()
1.4.1:OnDoneUpdateHabit


Delete Habit
User
HomeActivity
HomeAdapter
ViewHabitActivity
DeleteHabitActivity
Database
1: User is at HomeActivity
1.1: homeRecyclerView.setAdapter(homeAdapter)
1.2: startActivity(intent)
1.3: editHabit()
1.4:object.saveInBackground()
1.2.1: Back button pressed
1.3.1: Back button pressed
Loop
Alternative
Success
1.4.1:OnDoneUpdateHabit
[Else]
1.4:object.saveInBackground()
1.4.1:OnDoneUpdateHabit


Check In
HomeActivity
HomeAdapter
ViewHabitActivity
Database
User
1: User is at HomeActivity
1.1: homeRecyclerView.setAdapter(homeAdapter)
1.2: startActivity(intent)
1.3: object.saveInBackground()
1.2.1: Back button pressed
Loop
Alternative
Success
1.3.1:OnCheckInHabit
[Else]
1.3:object.saveInBackground()
1.3.1:OnDoneAddNewHabit


View Profile Settings
Actor
Actor
Home Activity
SettingsActivity
Database
1:ParseQuery.getQuery(User)
Loop
Alternative
Success
1.1:UpdateProfileData()
[Else]
1:ParseQuery.getQuery(User)
1.1:UpdateProfileData()
1.2: View Profile settings


Edit Profile Settings
Actor
Actor
Home Activity
SettingsActivity
Database
1:ParseQuery.getQuery(User)
Loop
Alternative
Success
1.1:UpdateProfileData()
[Else]
1:ParseQuery.getQuery(User)
1.1:UpdateProfileData()
1.2:Click Listeners for changes
2:OnChange
2.1:object.saveInBackground()
Loop
Alternative
Success
1.1:UpdateProfileData()
[Else]
2.1:object.saveInBackground()
1.1:UpdateProfileData()


View Achievements
Actor
HomeActivity
AchievementUtils
AchievementActivity
Google Play Services
1:onCreate()
1.1: onClick()
1.2 : getAchievements()
1.2.1 AchievementData
1.3: StartActivity()

Project Changes

- Database is set up and app is in development
- No changes to our project definition of scope
- Priorities focus is currently the same

Summary

- Provide a gamified approach to habits
- Allow users to track progress
- Simple, fun presentation