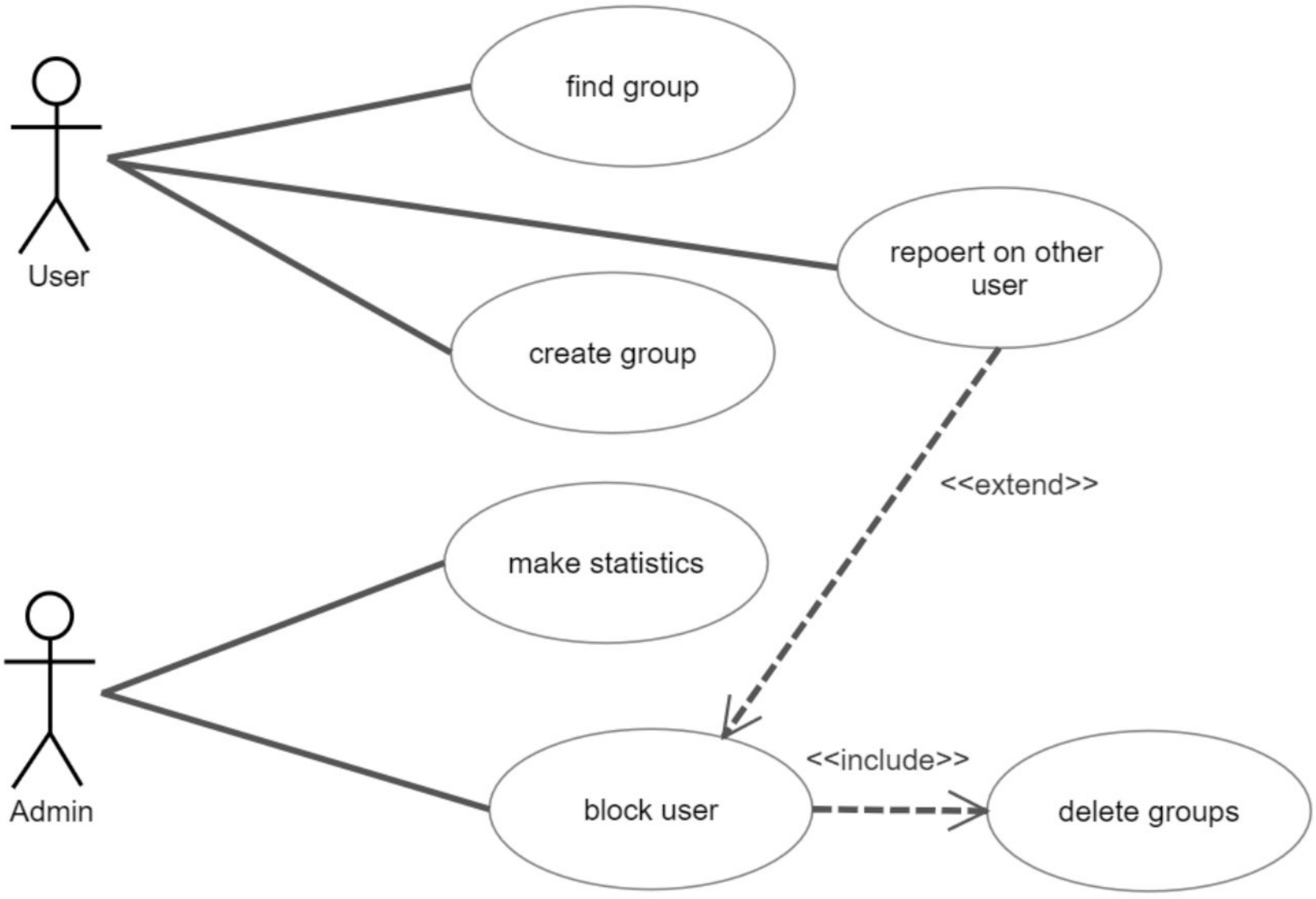
*אישרת לנו לא לעשות בכל התהליכים השתתפות של שני שחקנים מכיוון שאין לנו בכל התהליכים השתתפות של שני שחקנים.

Use Case Diagram



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FillDetailsActivity

```
[-] db: FirebaseFirestore
[-] binding: ActivityFillDetailsBinding
[-] mGoogleSignInClient : GoogleSignInClient
[-] RC_SIGN_IN : int
[-] firebaseAuth : FirebaseAuth
[+] date: String
[+] TAG: String
[+] logic: Logic
```

```
onCreate(Bundle savedInstanceState)
binding.logoutBtn.setOnClickListener(new View.OnClickListener())
checkUser()
binding.etSelectDate.setOnClickListener(new View.OnClickListener())
onClick(View view)
```

OpenGroupActivity

```
[+] meeting : String[]
[+] title: String
[+] date: String
[+] hour: int
[+] minute: int
[+] logic: Logic
[-] mGoogleSignInClient: GoogleSignInClient
[+] db : FirebaseFirestore
[-] binding: ActivityOpenGroupBinding
[-] RC_SIGN_IN: int
[-]firebaseAuth : FirebaseAuth
[-] TAG : String
```

```
onCreate(Bundle savedInstanceState)
binding.logoutBtn.setOnClickListener(new View.OnClickListener())
onClick(View view)
binding.backBtn.setOnClickListener(new View.OnClickListener())
binding.selectDateEt.setOnClickListener(new View.OnClickListener())
binding.CreateBtn.setOnClickListener(new View.OnClickListener())
binding.SelectTimeEdt.setOnClickListener(new View.OnClickListener()
addGroupToHeadDb(String gid)
onItemSelected(AdapterView<?> adapterView, View view, int i, long l)
void onNothingSelected(AdapterView<?> adapterView)
```

Logic

```
checkDate(int todayYear, int todayMonth, int todayDay, int
        groupDateYear, int groupDateMonth, int groupDateDay)
```

RecycleViewInterface

```
void onDetailsClick(int position)
void onJoinClick(int position)
void onDeleteClick(int position)
```

RelevantGroupsActivity

```
[+] contacts :ArrayList<Contact>
[+] adapter: ContactsAdapter
[+] logic: Logic
[-] mGoogleSignInClient: GoogleSignInClient
[+] db : FirebaseFirestore
[-] binding: ActivityRelevantGroupsBinding
[-] RC_SIGN_IN: int
[-] firebaseAuth : FirebaseAuth
[-] TAG : String
```

```
onCreate(Bundle savedInstanceState)
binding.logoutBtn.setOnClickListener(new View.OnClickListener())
onClick(View v)
binding.backBtn.setOnClickListener(new View.OnClickListener())
void setUpContact()
onDetailsClick(int position)
void onJoinClick(int position)
onDeleteClick(int position)
addGroupToUserDB(String groupID, String uid)
addToUserDb(User user, String uid)
addParticipantToDb(String groupID, Group group)
presentRelevantGroups(@NonNull Task<QuerySnapshot> task, String[] finalToday)
```

DeleteUserAdapter

```
[+] contacts : ArrayList<Contact>
[+] context: Context
[-] listener: RecyclerViewClickListener
```

```
DeleteUserAdapter(Context context, List<UserRow> userRows, RecycleViewInterface rvi)
setFilteredList(List<UserRow> filteredList)
DeleteUserAdapter.MyViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int
viewType)
void onBindViewHolder(@NonNull DeleteUserAdapter.MyViewHolder holder, int position)
getItemCount()
itemView.findViewById(R.id.blockBtn).setOnClickListener(new View.OnClickListener())
onClick(View view)
```

ContactsAdapter

```
[+] contacts : ArrayList<Contact>
[+] context: Context
[-] listener: RecyclerViewClickListener
```

```
onCreateViewHolder(@NonNull ViewGroup parent, int viewType)
onBindViewHolder(@NonNull ContactsAdapter.MyViewHolder
                holder, int position)
MyViewHolder(@NonNull View itemView, RecycleViewInterface
            recycleViewInterface)
getItemCount()
onCreateViewHolder(@NonNull ViewGroup parent, int viewType)
```

User

```
[-] uid: String
[-] name: String
[-] phone: String
[-] mail: String
[-] birth_date: String
[-] my_groups: ArrayList<String>
[-] num_of_reports: int
[-] success_creating_groups: int
[-] groups_I_joined: ArrayList<String>
```

```
getUid()
getGroups_I_joined()
setGroups_I_joined(ArrayList<String> groups_I_joined)
String getName()
String getPhone()
String getMail()
ArrayList<String> getMy_groups()
int getNum_of_reports()
void setName(String name)
void setPhone(String phone)
void setMail(String mail)
void setMy_groups(ArrayList<String> my_groups)
void setNum_of_reports(int num_of_reports)
int getSuccess_creating_groups()
void setSuccess_creating_groups(int success_creating_groups)
String getBirth_date()
void setBirth_date(String birth_date)
void addGroup(String gid)
void addGroupIJoined(String gid)
```

DeleteUserActivity

```
[+] db: FirebaseFirestore
[-] binding: ActivityDeleteUserBinding
[-] mGoogleSignInClient : GoogleSignInClient
[-] RC_SIGN_IN : int
[-] firebaseAuth : FirebaseAuth
[-] TAG : String
[+] userRows : List<UserRow>
[-] searchView : SearchView
[+] adapter : DeleteUserAdapter
[+] parent : androidx.constraintlayout.widget.ConstraintLayout
```

```
onCreate(Bundle savedInstanceState)
searchView.setOnQueryTextListener(new SearchView.OnQueryTextListener())
onQueryTextChange(String newText)
binding.logoutBtn.setOnClickListener(new View.OnClickListener())
onClick(View v)
fileList(String text)
setUpUserRows()
onDetailsClick(int position)
onJoinClick(int position)
onDeleteClick(int position)
onButtonShowPopupWindowClick(int pos)
onClick(View view)
fileList(String text)
setUpUserRows()
onDetailsClick(int position)
```

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AdminMainPageActivity

[-] mGoogleSignInClient :GoogleSignInClient
[+] db : FirebaseFirestore
[-] binding: ActivityAdminMainPageBinding
[-] RC_SIGN_IN: int
[-]firebaseAuth : FirebaseAuth

getName()
getMail()
setName(String name)
setMail(String mail)

Admin

[-] name : String
[-] mail : String

getName()
getMail()
setName(String name)
setMail(String mail)

UserRow

[-] uid: String
[-] name: String
[-] mail: String

getUid()
String getName()
String getMail()

Contact

[-] category: String
[-] location: String
[-] date: String
[-] id : String

getCategory()
setCategory(String category)
getLocation()
setLocation(String location)
getDate()
setDate(String date)
getId()
setId(String id)

MainActivity

[-] binding: ActivityMainBinding
[-] Tag: String
[-] GoogleSignInClient:GoogleSignInClient
[-] GoogleSignInOptions : GoogleSignInOptions
[+] db : FirebaseFirestore
[-] RC_SIGN_IN: int
[-]firebaseAuth : FirebaseAuth

onCreate(Bundle savedInstanceState)
binding.backBtn.setOnClickListener(new View.OnClickListener())
onClick(View view)
checkUser()
void onActivityResult(int requestCode, int resultCode, Intent data)
private void firebaseAuthWithGoogleAccount(GoogleSignInAccount account)
blocked_user(String uid)

Group

[-] title : String
[-] city : String
[-] time : String
[-] date : String
[-] head_of_group_uid : String
[-] min_participants : int
[-] max_participants : int
[-] num_of_participant : int
[-] is_happened : boolean
[-] participants: ArrayList<String>

getTitle()
int getNum_of_participant()
String getCity()
String getTime()
boolean isIs_happened()
public ArrayList<String> getParticipants()
void setTitle(String title)
void setNum_of_participant(int num_of_participant)
void setCity(String city)
void setTime(String time)
void setIs_happened(boolean is_happened)
void setParticipants(ArrayList<String> participants)
String getHead_of_group()
void setHead_of_group(String head_of_group)
int getMin_participants()
int getMax_participants()
void setMin_participants(int min_participants)
void setMax_participants(int max_participants)
String getDate()
void setDate(String date)
void addParticipant(String uid)

GroupDetailsActivity

[+] db: FirebaseFirestore
[-] binding: ActivityGroupDetailsBinding
[-] mGoogleSignInClient : GoogleSignInClient
[-] RC_SIGN_IN : int
[-] firebaseAuth : FirebaseAuth
[-] TAG : String
[+] uid: String
[+] title:String

onCreate(Bundle savedInstanceState)
binding.logoutBtn.setOnClickListener(new View.OnClickListener())
onClick(View v)
getDetailsFromDb(String id)
getUserFromDb()

FindGroupActivity

[+] meeting : String[]
[+] title: String
[-] mGoogleSignInClient:GoogleSignInClient
[+] db : FirebaseFirestore
[-] binding: ActivityFindGroupBinding
[-] RC_SIGN_IN: int
[-]firebaseAuth : FirebaseAuth

onCreate(Bundle savedInstanceState)
binding.backBtn.setOnClickListener(new View.OnClickListener())
onClick(View view)
public void onItemSelected(AdapterView<?> adapterView, View view, int i, long l)
onNothingSelected(AdapterView<?> adapterView)

StatisticsActivity

[-] mGoogleSignInClient: GoogleSignInClient
[+] db : FirebaseFirestore
[-] binding: ActivityStatisticsBinding
[-] RC_SIGN_IN: int
[-] firebaseAuth : FirebaseAuth
[-] TAG : String
[+] pieChart: PieChart
[+] barArrayList: ArrayList<BarEntry>
[+] barChart: BarChart
[+] hBarChart: BarChart
[+] hBarArrayList: ArrayList<BarEntry>
[+] hBarUsers: String[]
[-] categories: String[]
[-] colors: String[]

onCreate(Bundle savedInstanceState)
binding.logoutBtn.setOnClickListener(new View.OnClickListener())
onClick(View v)
binding.backBtn.setOnClickListener(new View.OnClickListener())
void setUpContact()
createPieChart()
countCategory(String category, String color)
createBarChart()
getBarData(int i, int j)
createHorizontalBarChart()

MainActivity

[-] binding: ActivityMainBinding
[-] TAG: String
[-] googleSignInClient :GoogleSignInClient
[+] googleSignInOptions : GoogleSignInOptions
[+] db : FirebaseFirestore
[-] RC_SIGN_IN: int
[-]firebaseAuth : FirebaseAuth

onCreate(Bundle savedInstanceState)
binding.googleSignInBtn.setOnClickListener(new View.OnClickListener())
onClick(View v)
checkUser()
void onActivityResult(int requestCode, int resultCode, Intent data)
private void firebaseAuthWithGoogleAccount(GoogleSignInAccount account)
blocked_user(String uid)

MainActivity

[-] binding: ActivityMainBinding
[-] Tag: String
[-] GoogleSignInClient:GoogleSignInClient
[-] GoogleSignInOptions : GoogleSignInOptions
[+] db : FirebaseFirestore
[-] RC_SIGN_IN: int
[-]firebaseAuth : FirebaseAuth

onCreate(Bundle savedInstanceState)
binding.backBtn.setOnClickListener(new View.OnClickListener())
onClick(View view)
checkUser()
void onActivityResult(int requestCode, int resultCode, Intent data)
private void firebaseAuthWithGoogleAccount(GoogleSignInAccount account)
blocked_user(String uid)

MainPageActivity

[-] binding: ActivityMainPageBinding
[-] Tag: String
[-] mGoogleSignInClient: GoogleSignInClient
[-] db : FirebaseFirestore
[-] RC_SIGN_IN: int
[-]firebaseAuth : FirebaseAuth

onCreate(Bundle savedInstanceState)
binding.createGroupBtn.setOnClickListener(new View.OnClickListener())
onClick(View view)
checkUser()

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Object diagram

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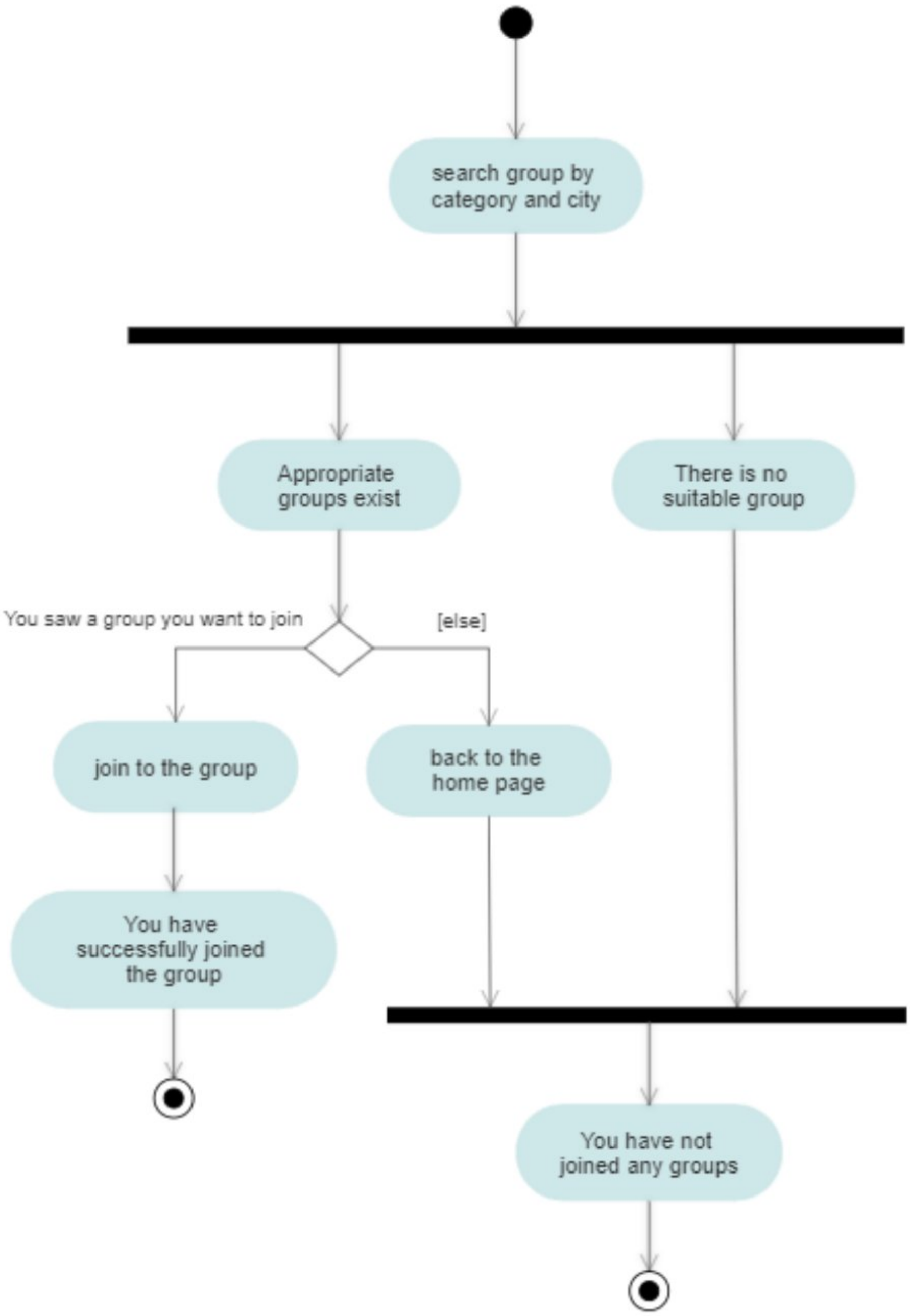
Activity Diagram



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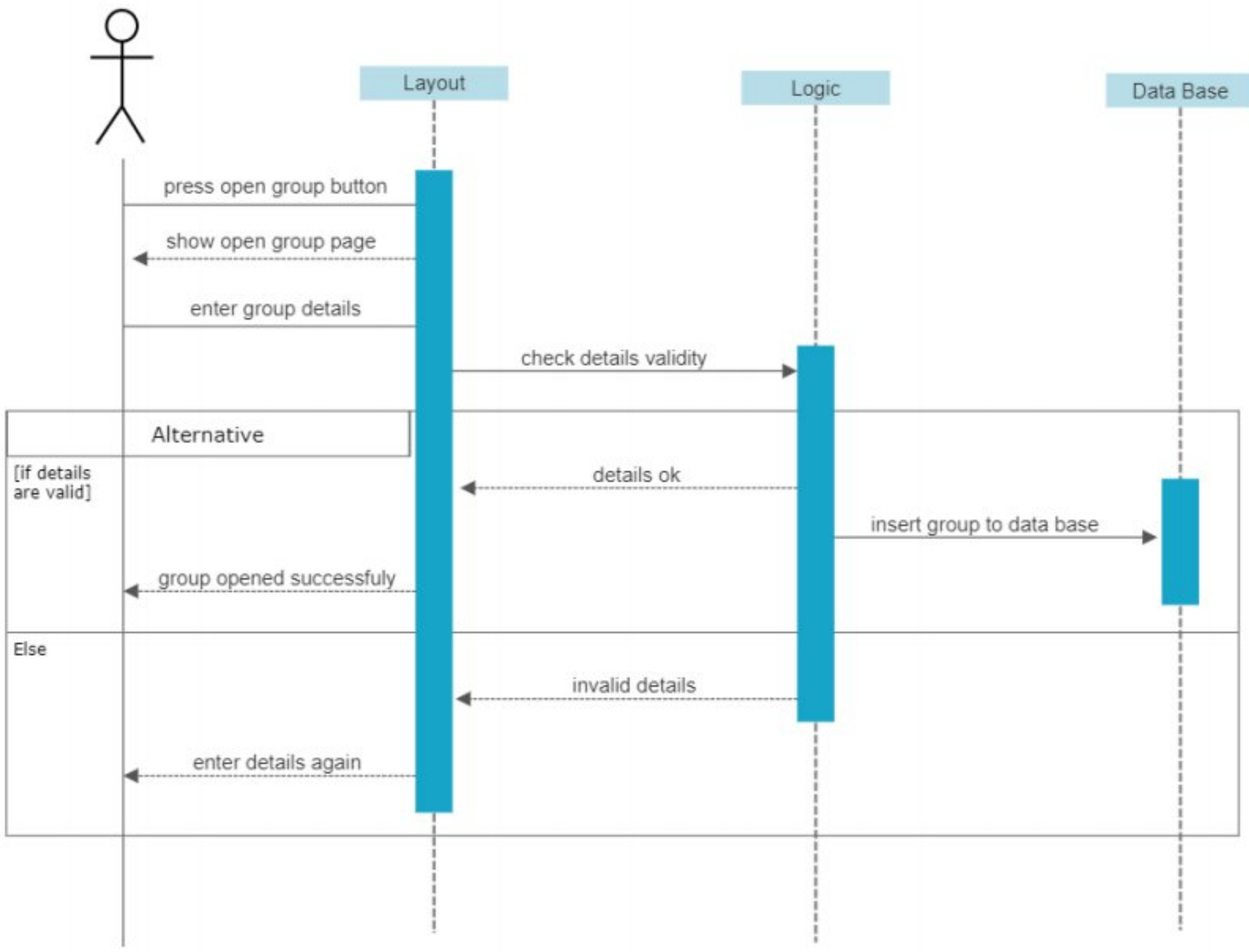
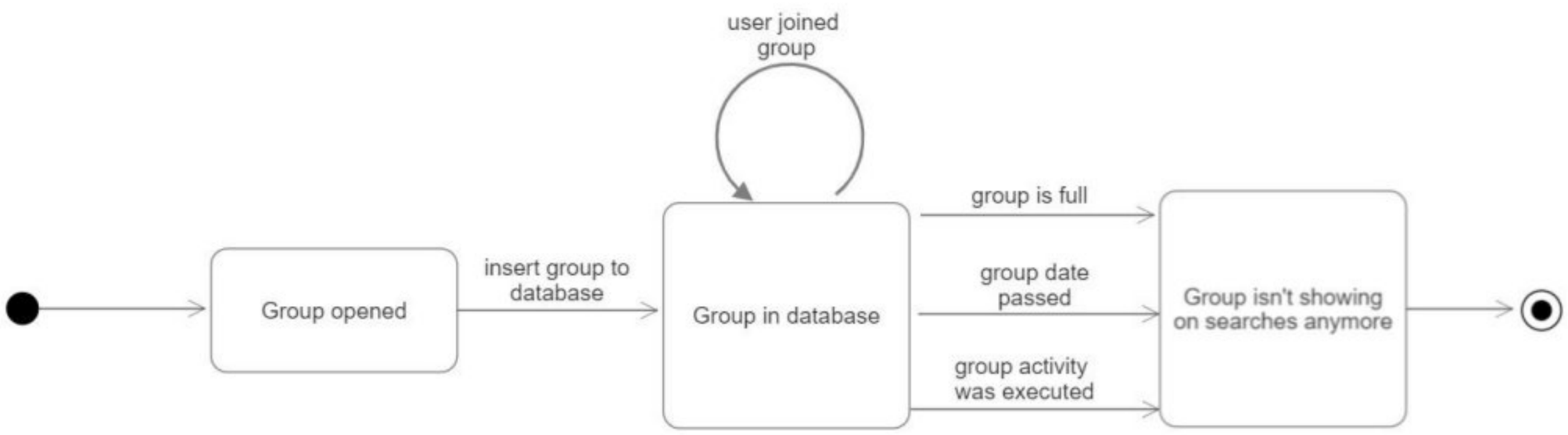
Sequence diagram:



State machine diagram:



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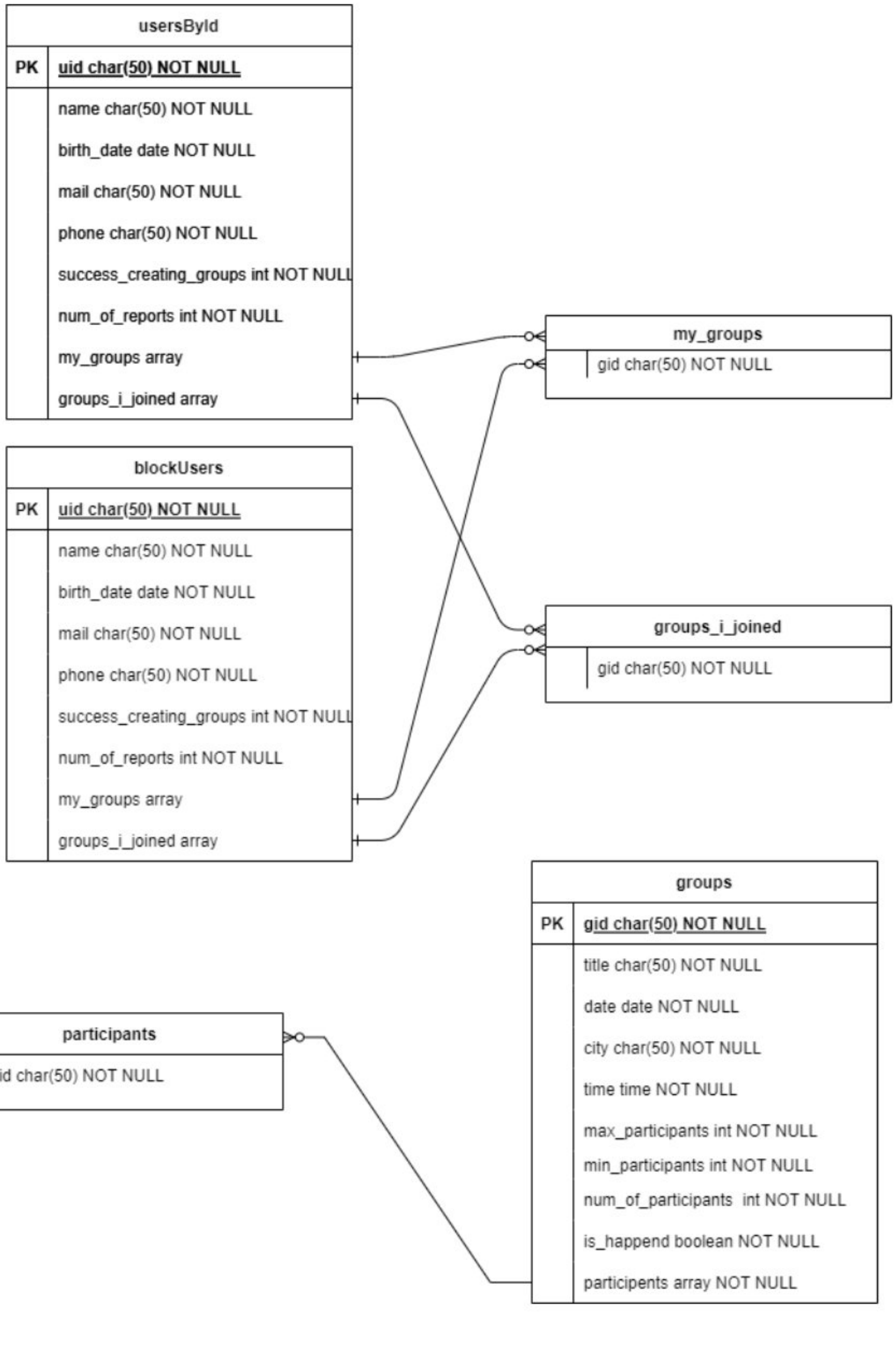

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