



Exploring Room Fundamentals



Belal Khan

 @probelalkhan

 in/probelalkhan

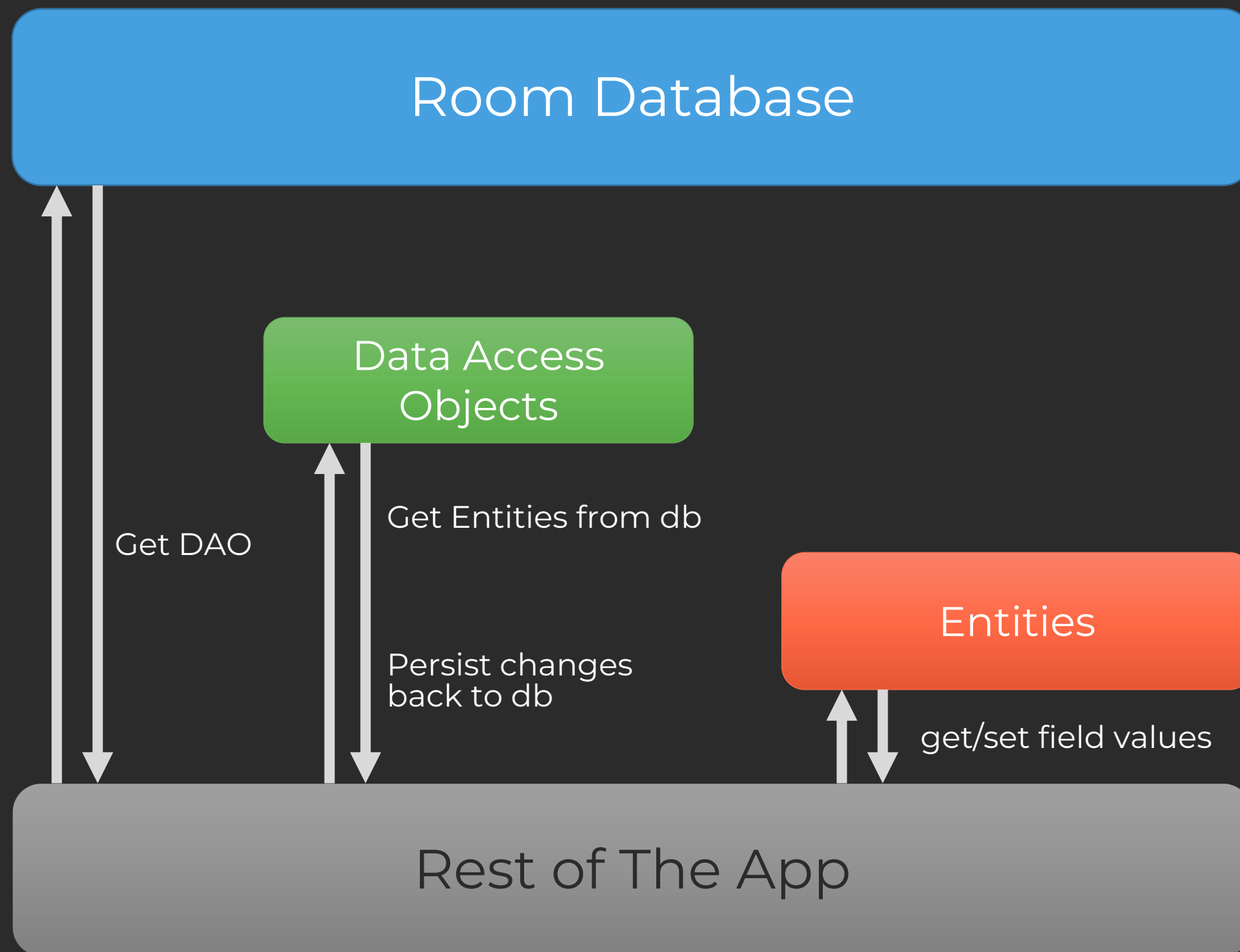


Overview

- Room Architecture
- Entities
- Daos
 - Create, Read, Update and Delete Operations
- Database



Room Architecture



Entity

- Entities are objects that will be persisted.

```
@Entity
data class User(
    @PrimaryKey val id:
    Int,

    val firstName: String?,
    val lastName: String?
)
```



Dao

- Provides abstract access to the database.

```
@Dao
interface UserDao {
    @Insert
    fun insertAll(vararg users: User)

    @Update
    fun update(user: User)

    @Delete
    fun delete(user: User)

    @Query("SELECT * FROM user")
    fun getAll(): List<User>
}
```



Database

- The app's main access point to persisted data.

```
@Database(entities = [User::class], version = 1)
abstract class AppDatabase : RoomDatabase() {
    abstract fun userDao(): UserDao
}
```



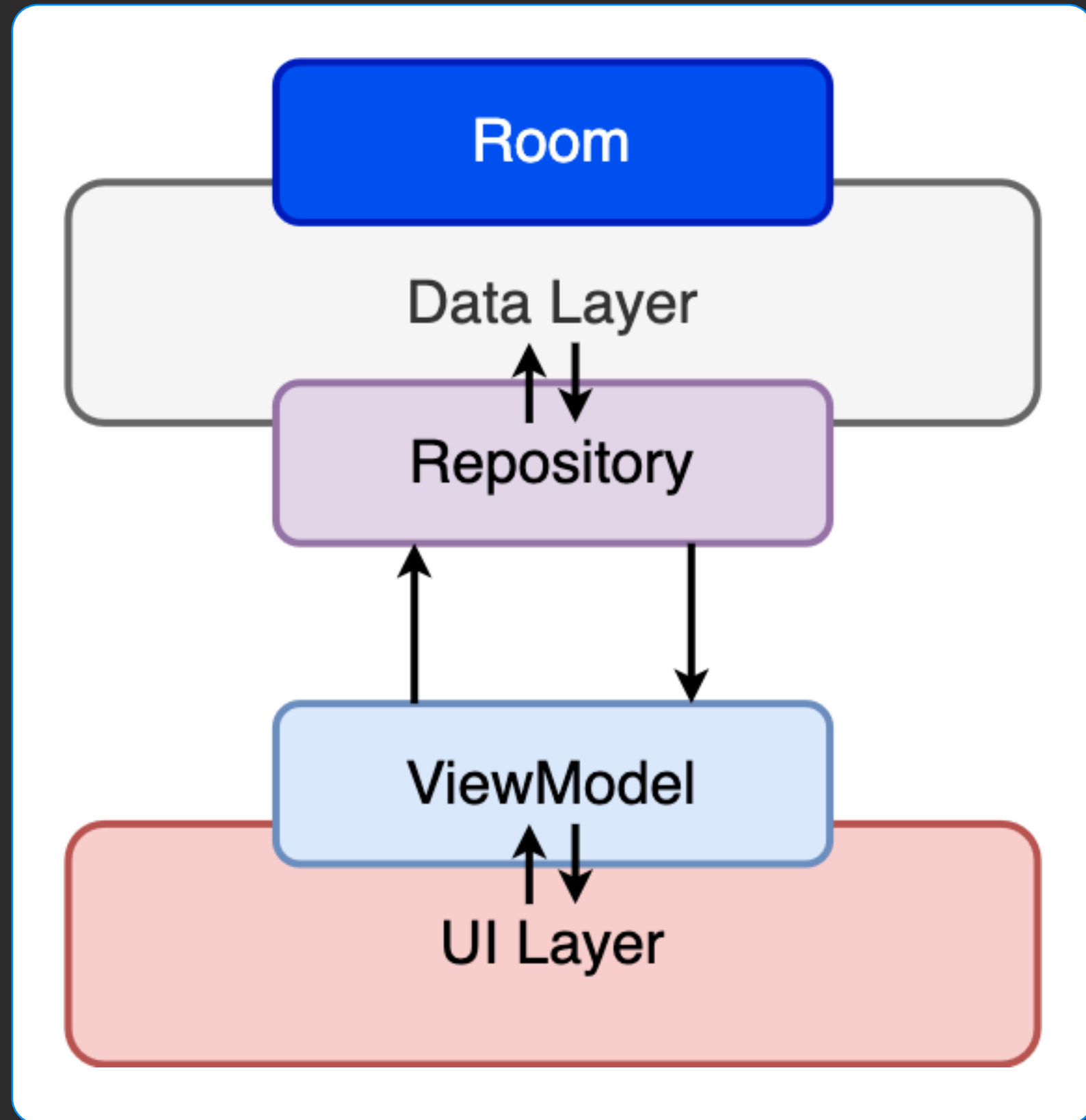
Database

- Building the database using databaseBuilder.

```
val db =  
    Room.databaseBuilder(  
        applicationContext,  
        AppDatabase::class.java, "database-name"  
    ).build()
```



Easy Invoice Architecture



Summary

- Room Database Architecture
- Creating Database Tables with Entities
- Performing **Create, Read, Update and Delete** Operations with DAOs
- Creating Database Instance
- Easy Invoice Architecture





Setting Up Room Database

Up Next

