Compte-Rendu du TP3 Todo List API

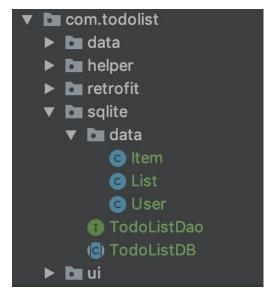
Introduction:

Les travails déjà réalisés:

- 1. Créer la connexion à la base de données
- 2. Définir la structure de stockage local

Analyses:

La structure des codes:



Les 3 classes qui définissent la structure de la base de données:

User:

```
package com.todolist.sqlite.data;
import androidx.annotation.NonNull;
 import androidx.room.Entity;
 import androidx.room.Index;
import androidx.room.PrimaryKey;
@Entity(indices = {@Index(value = {"id"})},
         tableName = "users")
 public class User {
     @PrimaryKey
     @NonNull
     public int id;
     public String pseudo;
     public String password;
     public int getId() { return id; }
     public void setId(int id) { this.id = id; }
     public String getPseudo() { return pseudo; }
     public void setPseudo(String pseudo) { this.pseudo = pseudo; }
     public String getPassword() { return password; }
     public void setPassword(String password) { this.password = password; }
```

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List:

```
package com.todolist.sqlite.data;
import androidx.annotation.NonNull;
import androidx.room.ColumnInfo;
import androidx.room.Entity;
import androidx.room.PrimaryKey;
@Entity(tableName = "list")
public class List {
   @PrimaryKey
    @NonNull
    public String id;
    public String label;
    @ColumnInfo(name = "user_id")
    public String userId;
    public String getId() { return id; }
    public void setId(String id) { this.id = id; }
    public String getLabel() { return label; }
    public void setLabel(String label) { this.label = label; }
    public String getUserId(){ return userId;}
    public void setUserId(String userId){this.userId = userId;}
```

Item:

```
package com.todolist.sqlite.data;
import androidx.annotation.NonNull;
import androidx.room.ColumnInfo;
import androidx.room.Entity;
import androidx.room.PrimaryKey;
@Entity(tableName = "item")
public class Item {
    @PrimaryKey
    @NonNull
    public String id;
    public String label;
    public String url;
    public String checked;
    @ColumnInfo(name = "list_id")
    public String listId;
    public String getId() { return id; }
    public void setId(String id) {
        this.id = id;
    public String getLabel() { return label; }
    public void setLabel(String label) { this.label = label; }
    public Object getUrl() { return url; }
    public void setUrl() { this.url = url; }
    public String getChecked() { return checked; }
    public void setChecked(String checked) { this.checked = checked; }
    public String getListId() { return listId; }
    public void setListId(String listId) { this.listId = listId; }
```

TodoListDao: l'interaction avec la base de données:

```
@Dao
public interface TodoListDao {
    // Part List
    @Query("SELECT * FROM list")
    java.util.List<List> getLists();
    @Query("SELECT * FROM list WHERE user_id LIKE:userId")
    java.util.List<List> findListByUserId(String userId);
    @Query("SELECT * FROM list WHERE label LIKE:labelClick")
    List findListByUserLabel(String labelClick);
    @Insert(onConflict = OnConflictStrategy.REPLACE)
    void saveList(java.util.List<List> listsLoad);
    @Insert
    void add(List listAdd);
    @Delete
    int deleteList(List listdb);
    @Query("DELETE FROM list")
    int deleteAllList();
```

```
// Part User
//-----
@Query("SELECT * FROM users")
java.util.List<User> getAllUsers();

@Query("SELECT * FROM users WHERE id IN(:userIds)")
java.util.List<User> loadAllUsersByIds(int[] userIds);

@Query("SELECT * FROM users WHERE pseudo LIKE:pseudo")
java.util.List<User> findUserByPseudo(String pseudo);

@Insert
void setUser(User user);
}
```

TodoListDB: