

```
1 package com.example.cookbook;
2
3 import java.util.Date;
4
5 public class Note {
6     private Integer mNote;
7     private User mUser;
8     private Date mDate;
9
10
11    public Note(Integer note, User u){
12        mNote=note;
13        mUser=u;
14        mDate=new Date();
15    }
16
17    public Note(Integer note, User u, Date d){
18        mNote=note;
19        mUser=u;
20        mDate=d;
21    }
22
23    public Integer getNote() {
24        return mNote;
25    }
26
27    public User getUser() {
28        return mUser;
29    }
30
31    public Date getDate() {
32        return mDate;
33    }
34
35    public void setNote(Integer note) {
36        mNote = note;
37    }
38
39    public void setUser(User user) {
40        mUser = user;
41    }
42
43    public void setDate(Date date) {
44        mDate = date;
45    }
46
47    @Override
48    public boolean equals(Object o){
49        if (o == null) return false;
50        if (o == this) return true;
51        if (getClass() != o.getClass()) return false;
52        Note n=(Note) o;
53        boolean b=(this.mNote.equals(n.getNote()));
54        b=b && (mDate.toString().equals(n.getDate().toString()));
```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook>Note.java

```
55         b=b && (mUser.equals(n.getUser()) );
56         return b;
57     }
58 }
59
```

```
1 package com.example.cookbook;
2
3 import android.util.Log;
4
5 import java.util.Date;
6 import java.util.UUID;
7 import java.util.regex.Pattern;
8
9 public class User {
10     private UUID mId;
11     private String mFamily;
12     private String mName;
13     private Date mDate;
14     private static final String TAG = "DebugUser";
15
16     public User(String family, String name){
17         mFamily=family;
18         mName=name;
19         mId =UUID.randomUUID();
20         mDate=new Date();
21     }
22
23     public User(UUID uuid){
24         mId =uuid;
25         // waiting for user database
26         switch(mId.toString()){
27             case "c81d4e2e-bcf2-11e6-869b-7df92533d2db":
28                 mFamily="Devaux_Lion de ML";
29                 mName="Fabrice";
30                 return;
31             case "c81d4e2e-bcf2-11e7-869b-7df92533d2db":
32                 mFamily="Devaux_Lion de ML";
33                 mName="Lucile";
34                 return;
35             case "c81d4e2e-bcf3-11e6-869b-7df92533d2db":
36                 mFamily="Devaux_Lion de ML";
37                 mName="Véronique";
38                 return;
39             default:
40                 mFamily="not found";
41                 mName="not found";
42         }
43     }
44
45     public UUID getId() {
46         return mId;
47     }
48
49     public void setId(UUID id) {
50         this.mId = id;
51     }
52
53     public String getFamily() {
54         return mFamily;
```

```
55     }
56
57     public void setFamily(String family) {
58         mFamily = family;
59     }
60
61     public String getName() {
62         return mName;
63     }
64
65     public void setName(String name) {
66         mName = name;
67     }
68
69     public boolean isEqualUser(User u){
70         return (this==u);
71     }
72
73     public String getNameComplete() {
74         return mName+" de "+ mFamily;
75     }
76
77     public boolean isEqual(User r){return (mId==r.getId());}
78
79     public Date getDate() {
80         return mDate;
81     }
82
83     public void setDate(Date date) {
84         mDate = date;
85     }
86
87     @Override
88     public boolean equals(Object o){
89         if (o == null) return false;
90         if (o == this) return true;
91         if (getClass() != o.getClass()) return false;
92         User u=(User) o;
93         return u.getId().toString().equals(mId.toString());
94     }
95     //todo P2 épurer affichage quand champs vides
96     //todo P2 tuto swipe page
97     //todo P1 messagerie
98
99 }
100
```

```
1 package com.example.cookbook;
2
3 import android.util.Log;
4
5 import com.google.gson.Gson;
6 import com.google.gson.reflect.TypeToken;
7
8 import java.lang.reflect.Type;
9 import java.net.MalformedURLException;
10 import java.net.URL;
11 import java.util.ArrayList;
12 import java.util.Calendar;
13 import java.util.Date;
14 import java.util.UUID;
15
16 enum StatusRecipe {Submitted, Visible, Deleted };
17 public class Recipe {
18     private UUID mId;
19     private User mOwner;
20     private Date mLastUpdateRecipe;
21     private Date mLastUpdatePhoto;
22     private String mTitle;
23     private String mSource;
24     private URL mSource_url;
25     private int mNbPers;
26     private String[] mSteps;
27     private double mNoteAvg;
28     private ArrayList<Note> mNotes;
29     private ArrayList<Comment> mComments;
30     private RecipeSeason mSeason;
31     private RecipeDifficulty mDifficulty;
32     private String[] mIngredients;
33     private StatusRecipe mStatus;    // mettre à jour affichage
34     private String mMessage;
35     private User mIdFrom;
36     private Boolean mTS_recipe;
37     private Boolean mTS_photo;
38     private Boolean mTS_comment;
39     private Boolean mTS_note;
40
41     private static final int NBSTEP_MAX=9;
42     private static final int NBING_MAX=15;
43     private static final int NBCOM_MAX=20;
44     private String TAG="CB_Recipe";
45     private String DEFAULT_URL="https://www.cookbookfamily.com";
46
47
48
49     public Recipe() {
50         this(UUID.randomUUID());
51     }
52
53     public Recipe( UUID id) {
54         mId=id;
```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\Recipe.java

```
55         mLasteUpdateRecipe =new Date();
56         Calendar c=Calendar.getInstance();
57         c.set(2000,0,1,0, 0);
58         mLasteUpdateRecipe=c.getTime();
59         mLasteUpdatePhoto=c.getTime();
60         mSteps = new String[NBSTEP_MAX];
61         mIngredients= new String[NBING_MAX];
62         for(int i=0;i<NBSTEP_MAX;i++){mSteps[i]="";}
63         for(int i=0;i<NBING_MAX;i++){mIngredients[i]="";}
64         mNbPers=4;
65         mSeason=RecipeSeason.ALLYEAR;
66         mDifficulty=RecipeDifficulty.UNDEFINED;
67         mStatus=StatusRecipe.Visible;
68         mComments=new ArrayList<Comment>();
69         mNotes=new ArrayList<Note>();
70         mSource="";
71         mIdFrom=new User(UUID.fromString("00000000-0000-0000-0000-
000000000000"));
72         try {mSource_url=new URL(DEFAULT_URL);
73     } catch (MalformedURLException e) {}
74         mTS_recipe=false;
75         mTS_photo=false;
76         mTS_comment=false;
77         mTS_note=false;
78     }
79
80
81     public UUID getId() {
82         return mId;
83     }
84
85     public User getUserFrom() {
86         return mIdFrom;
87     }
88
89     public void setUserFrom(User idFrom) {
90         mIdFrom = idFrom;
91     }
92
93     public void setId(UUID id) {mId = id; }
94
95     public Date getDate() {
96         return mLasteUpdateRecipe;
97     }
98
99     public Date getDatePhoto() {
100        return mLasteUpdatePhoto;
101    }
102
103    public String getTitle() {
104        return mTitle;
105    }
106
107    public void setDate(Date date) {mLastUpdateRecipe = date;}
```

```
108
109     public void setDatePhoto(Date date) {mLastUpdatePhoto = date;}
110
111     public void setTitle(String title) {
112         mTitle = title;
113     }
114
115     public int getNbPers() {
116         return mNbPers;
117     }
118
119     public void setNbPers(int nbPers) {
120         mNbPers = nbPers;
121     }
122
123     public String getMessage() {
124         return mMessage;
125     }
126
127     public void setMessage(String message) {
128         mMessage=message;
129     }
130
131     public void updateTS(AsynCallFlag asyn, Boolean b){
132         switch(asyn){
133             case NEWRECIPE:{mTS_recipe=b;return;}
134             case NEWPHOTO:{mTS_photo=b;return;}
135             case NEWRATING:{mTS_note=b;return;}
136             case NEWCOMMENT:{mTS_comment=b;return;}
137         }
138         return;
139     }
140
141     public int getTS(AsynCallFlag asyn){
142         Boolean b=false;
143         switch(asyn){
144             case NEWRECIPE:{b=mTS_recipe; break;}
145             case NEWPHOTO:{b=mTS_photo; break;}
146             case NEWRATING:{b=mTS_note; break;}
147             case NEWCOMMENT:{b=mTS_comment; break;}
148         }
149         return (b ? 1:0);
150     }
151     public Boolean hasChanged(){
152         return (mTS_recipe || mTS_photo || mTS_note || mTS_comment);
153     }
154
155     public String getFlag(){
156         String s=mStatus.toString().substring(0,1);
157         s=s+(mTS_recipe ? "1":"0");
158         s=s+(mTS_photo ? "1":"0");
159         s=s+(mTS_comment ? "1":"0");
160         s=s+(mTS_note ? "1":"0");
161         return s;
```

```
162     }
163
164     // -----STEP-----
165     public void setStep(Integer i, String step) {
166         if ((i > 0) && (i <= NBSTEP_MAX)) {
167             mSteps[i - 1] = step;
168         }
169     }
170
171     public String getStep(Integer i){
172         if ((i>0)&&(i<=NBSTEP_MAX)) {return mSteps[i-1];}
173         else{ return "";}
174     }
175
176     public int getNbStep(){
177         int j=0;
178         for(int i=NBSTEP_MAX; i>0; i--){
179             if (!mSteps[i-1].isEmpty()) {j=i; break;}
180         return j;
181     }
182
183     public int getNbStepMax(){return NBSTEP_MAX;}
184
185     //-----Ingredients-----
186     public void setIngredient(Integer i, String ing) {
187         if ((i > 0) && (i <= NBING_MAX)) {
188             mIngredients[i-1] = ing;
189         }
190     }
191
192     public String getIngredient(Integer i){
193         if ((i>0)&&(i<=NBING_MAX)) {return mIngredients[i-1];}
194         else{ return "";}
195     }
196     public int getNbIng(){
197         int j=0;
198         for(int i=NBING_MAX; i>0; i--){
199             if (!mIngredients[i-1].isEmpty()) {j=i; break;}
200         return j;
201     }
202
203     public int getNbIngMax(){return NBING_MAX;}
204
205     //----- Owner -----
206     public User getOwner() {
207         return mOwner;
208     }
209
210     public String getOwnerIdString() {
211         return mOwner.getId().toString();
212     }
213
214     public void setOwner(User owner) {
215         mOwner = owner;
```

```
216     }
217
218
219     //----- Source -----
220     public String getSource() {
221         if (mSource==null) return "";
222         return mSource;
223     }
224     public void setSource(String source) {
225         mSource = source;
226     }
227     public URL getSource_url() {
228         return mSource_url;
229     }
230
231     public String getSource_url_name() {
232         String ret=mSource_url.toString();
233         if (ret.equals("https:") || ret.equals("http:")){ret="";}
234         return ret;
235     }
236
237     public void setSource_url(URL source_url) {
238         mSource_url = source_url;
239     }
240
241     // -----Enum -----
242
243     public RecipeSeason getSeason() {
244         return mSeason;
245     }
246
247     public void setSeason(RecipeSeason season) {
248         mSeason = season;
249     }
250
251     public boolean IsSummer(){
252         switch (mSeason) {
253             case SUMMER:
254                 return true;
255             case ALLYEAR:
256                 return true;
257             default:
258                 return false;
259         }
260     }
261     public boolean IsWinter(){
262         switch (mSeason) {
263             case WINTER:
264                 return true;
265             case ALLYEAR:
266                 return true;
267             default:
268                 return false;
269         }
270     }
```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\Recipe.java

```
270     }
271
272     public RecipeDifficulty getDifficulty() {
273         return mDifficulty;
274     }
275
276     public void setDifficulty(RecipeDifficulty difficulty) {
277         mDifficulty = difficulty;
278     }
279
280     public StatusRecipe getStatus() {return mStatus;}
281     public void setStatus(StatusRecipe s) {
282         mStatus = s;
283     }
284     public boolean isVisible(){
285         if (mStatus==StatusRecipe.Visible) {return true;}
286         return false;
287     }
288     public boolean IsMessage(){
289         if (mStatus==StatusRecipe.Submitted) {return true;}
290         return false;
291     }
292     public boolean IsMarkedDeleted(){
293         if (mStatus==StatusRecipe.Deleted) {return true;}
294         return false;
295     }
296
297     //----- photo filename-----
298
299     public String getPhotoFilename(){
300         return "IMG"+getId().toString()+".jpg";
301     }
302
303     //----- Arraylist Comments et Notes
304     -----
305     public void addComment(Comment c){ mComments.add(c);}
306
307     public ArrayList<Comment> getComments() {return mComments;}
308
309     public Comment getComment(int i){
310         if (i<mComments.size()){
311             return mComments.get(i);
312         } else {return null;}
313     }
314
315
316     public int getNbComMax(){return NBCOM_MAX;} // nb max affiché
317
318     public void addNote(Note note){ mNotes.add(note);}
319     public ArrayList<Note> getNotes() {return mNotes;}
320     public Note getNote(int i){
321         if (mNotes==null) return null;
322         if (i<mNotes.size()) { return mNotes.get(i);}
```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\Recipe.java

```
323         else {return null;}
324     }
325
326     public double getNoteAvg() {
327         mNoteAvg=0;
328         if (mNotes==null) return mNoteAvg;
329         if (mNotes.size()!=0) {
330             for(Note n:mNotes){mNoteAvg+=n.getNote();}
331             mNoteAvg=mNoteAvg/mNotes.size();
332         } else {mNoteAvg=0;}
333         return mNoteAvg;
334     }
335
336     //----- Serialisation -----
337     public String getSerializedComments(){
338         Gson gson = new Gson();
339         return gson.toJson(mComments);
340     }
341
342     public void getCommentsDeserialised(String raw){
343         Gson gson=new Gson();
344         Type listOfNotesObject = new TypeToken<ArrayList<Comment>>()
345             .getType();
346         mComments=gson.fromJson(raw, listOfNotesObject);
347     }
348     public String getSerializedOwner(){
349         Gson gson = new Gson();
350         return gson.toJson(mOwner);
351     }
352     public String getSerializedFrom(){
353         Gson gson = new Gson();
354         return gson.toJson(mIdFrom);
355     }
356     public void getOwnerDeserialized(String raw){
357         Gson gson=new Gson();
358         mOwner=gson.fromJson(raw, User.class);
359     }
360     public void getFromDeserialized(String raw){
361         Gson gson=new Gson();
362         mIdFrom=gson.fromJson(raw, User.class);
363     }
364
365     public String getSerializedNotes(){
366         Gson gson = new Gson();
367         return gson.toJson(mNotes);
368     }
369
370     public void getNotesDeserialised(String raw){
371         Gson gson=new Gson();
372         Type listOfNotesObject = new TypeToken<ArrayList<Note>>(). {}
373         getType();
374         mNotes=gson.fromJson(raw, listOfNotesObject);
375     }
```

```
File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\Recipe.java
375      // **** tests ****
376      public Boolean hasNotChangedSince(Recipe r) {
377          if (!mId.toString().equals(r.getId().toString())) return
378              false;
379          if (!mOwner.getId().toString().equals(r.getOwner().getId().to
380              String())) return false;
381          if (!mTitle.equals(r.getTitle())) return false;
382          if (!mSource.equals(r.getSource())) return false;
383          if (!mSource_url.equals(r.getSource_url())) return false;
384          if (mNbPers!=r.getNbPers()) return false;
385          for (int i = 0; i < r.getNbStepMax(); i++) {
386              if (!mSteps[i].equals(r.getStep(i+1))) return false;
387          }
388          for (int i = 0; i < r.getNbIngMax(); i++) {
389              if (!mIngredients[i].equals(r.getIngredient(i + 1)))
390                  return false;
391          }
392      }
393
394  }
395
```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\Comment.java

```
1 package com.example.cookbook;
2
3 import java.text.DateFormat;
4 import java.text.SimpleDateFormat;
5 import java.util.Date;
6
7 public class Comment {
8     private String mTxt;
9     private User mUser;
10    private Date mDate;
11
12    public Comment() {
13        mTxt="";
14        mUser=new User("", "");
15        mDate=new Date();
16    }
17
18    public Comment(String s, User u) {
19        mTxt=s;
20        mUser=u;
21        mDate=new Date();
22    }
23    public Comment(String s, User u, Date d) {
24        mTxt=s;
25        mUser=u;
26        mDate=d;
27    }
28
29    public String getTxt() {
30        return mTxt;
31    }
32
33    public User getUser() {
34        return mUser;
35    }
36
37    public Date getDate() {
38        return mDate;
39    }
40
41    public void setDate(Date date) {
42        mDate = date;
43    }
44
45    public String toTxt(){
46        DateFormat dateFormat = new SimpleDateFormat("dd/MM/yyyy");
47        String s= dateFormat.format(mDate);
48        return mTxt+" ("+mUser.getNameComplete()+") - " + s;
49    }
50
51    @Override
52    public boolean equals(Object o){
53        if (o == null) return false;
54        if (o == this) return true;
```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\Comment.java

```
55         if (getClass() != o.getClass()) return false;
56         Comment c=(Comment) o;
57         boolean b=(this.mTxt.equals(c.getTxt()));
58         b=b && (mDate.toString().equals(c.getDate().toString()));
59         b=b && (mUser.equals(c.getUser()));
60         return b;
61     }
62
63     public String convert(){
64         String s1=">" +mTxt+"< (";
65         s1=s1 + mDate.toString()+" de ";
66         s1=s1+mUser.getNameComplete();
67         return s1;
68     }
69 }
70
```

```
1 package com.example.cookbook;
2
3 import android.content.ContentValues;
4 import android.content.Context;
5 import android.database.Cursor;
6 import android.database.sqlite.SQLiteDatabase;
7 import android.util.Log;
8
9
10 import java.io.File;
11 import java.net.MalformedURLException;
12 import java.net.URL;
13 import java.util.ArrayList;
14 import java.util.Calendar;
15 import java.util.Date;
16 import java.util.List;
17 import java.util.Random;
18 import java.util.UUID;
19
20 public class CookBook {
21     private static CookBook ourInstance ;
22     private Context mContext;
23     private SQLiteDatabase mDatabase;
24     private static final String TAG = "CB_Cookbook";
25
26     public static CookBook get(Context context) {
27         if (ourInstance==null){
28             ourInstance= new CookBook(context);
29         }
30         return ourInstance;
31     }
32
33     private CookBook(Context context) {
34         mContext=context.getApplicationContext();
35         mDatabase=new RecipeBaseHelper(mContext)
36             .getWritableDatabase();
37     }
38
39     public Recipe getRecipe(UUID id) {
40         RecipeCursorWrapper cursor=queryRecipes(
41             RecipeDbSchema.RecipeTable.Cols.UUID+"=?",
42             new String[] {id.toString()})
43     ;
44         try{
45             if (cursor.getCount()==0) {return null;}
46             cursor.moveToFirst();
47             return cursor.getRecipe();
48         } finally {cursor.close();}
49     }
50
51     public void updateRecipe(Recipe r) {
52         String uuidString=r.getId().toString();
53         r.setDate(new Date()); //last
modification
```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\CookBook.java

```
54         ContentValues values=getContentValues(r);
55         mDatabase.update(RecipeDbSchema.RecipeTable.NAME, values,
56                         RecipeDbSchema.RecipeTable.Cols.UUID+" =?", 
57                         new String[] {uuidString});
58     }
59
60     private RecipeCursorWrapper queryRecipes(String whereClause,
61     String[] whereArgs) {
62         Cursor cursor=mDatabase.query(
63             RecipeDbSchema.RecipeTable.NAME,
64             null, // select all columns
65             whereClause,
66             whereArgs,
67             null, null, null
68         );
69         return new RecipeCursorWrapper(cursor);
70     }
71
72     public void addRecipe(Recipe r) {
73         ContentValues values=getContentValues(r);
74         mDatabase.insert(RecipeDbSchema.RecipeTable.NAME, null,
75         values);
76     }
77
78     public void removeRecipe(Recipe r) {
79         String uuidString=r.getId().toString();
80         mDatabase.delete(RecipeDbSchema.RecipeTable.NAME,
81                         RecipeDbSchema.RecipeTable.Cols.UUID+" =?", 
82                         new String[] {uuidString});
83         return;
84     }
85
86     public void markRecipeToDelete(Recipe r) {
87         r.setStatus(StatusRecipe.Deleted);
88         updateRecipe(r);
89     }
90
91     public List<Recipe> getRecipes() {
92         List<Recipe> recipes=new ArrayList<>();
93         RecipeCursorWrapper cursor=queryRecipes(null, null);
94         try{
95             cursor.moveToFirst();
96             while (!cursor.isAfterLast()){
97                 recipes.add(cursor.getRecipe());
98                 cursor.moveToNext();
99             }
100        } finally { cursor.close(); }
101        return recipes;
102    }
103    private static ContentValues getContentValues(Recipe recipe) {
104        ContentValues values=new ContentValues();
105        values.put(RecipeDbSchema.RecipeTable.Cols.UUID, recipe.getId)
```

```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\CookBook.java

105    () .toString() );
106    values.put(RecipeDbSchema.RecipeTable.Cols.OWNER, recipe.
107        getSerializedOwner());
108    values.put(RecipeDbSchema.RecipeTable.Cols.TITLE, recipe.
109        getTitle());
110    values.put(RecipeDbSchema.RecipeTable.Cols.SOURCE, recipe.
111        getSource());
112    values.put(RecipeDbSchema.RecipeTable.Cols.SOURCE_URL, recipe
113        .getSource_url().toString());
114    values.put(RecipeDbSchema.RecipeTable.Cols.DATE, recipe.
115        getDate().getTime());
116    if (recipe.getDatePhoto()!=null){
117        values.put(RecipeDbSchema.RecipeTable.Cols.DATE_PHOTO, recipe
118        .getDatePhoto().getTime());
119        values.put(RecipeDbSchema.RecipeTable.Cols.NBPERS, recipe.
120        getNbPers());
121        for(int i=0;i<recipe.getNbStepMax();i++){
122            values.put(RecipeDbSchema.RecipeTable.Cols.STEP[i],
123            recipe.getStep(i+1));
124        }
125        for(int i=0;i<recipe.getNbIngMax();i++){
126            values.put(RecipeDbSchema.RecipeTable.Cols.ING[i], recipe
127            .getIngredient(i+1));
128        }
129        values.put(RecipeDbSchema.RecipeTable.Cols.SEASON, recipe.
130        getSeason().name());
131        values.put(RecipeDbSchema.RecipeTable.Cols.DIFFICULTY, recipe
132        .getDifficulty().name());
133        values.put(RecipeDbSchema.RecipeTable.Cols.COMMENTS, recipe.
134        getSerializedComments());
135        values.put(RecipeDbSchema.RecipeTable.Cols.STATUS, recipe.
136        getStatus().toString());
137        values.put(RecipeDbSchema.RecipeTable.Cols.NOTES, recipe.
138        getSerializedNotes());
139        values.put(RecipeDbSchema.RecipeTable.Cols.MESSAGE, recipe.
140        getMessage());
141        values.put(RecipeDbSchema.RecipeTable.Cols.MESSAGE_FROM,
142        recipe.getSerializedFrom());
143        values.put(RecipeDbSchema.RecipeTable.Cols.TS_RECIPE, recipe.
144        getTS(AsynCallFlag.NEWRECIPE));
145        values.put(RecipeDbSchema.RecipeTable.Cols.TS_PHOTO, recipe.
146        getTS(AsynCallFlag.NEWPHOTO));
147        values.put(RecipeDbSchema.RecipeTable.Cols.TS_COMMENT, recipe
148        .getTS(AsynCallFlag.NEWCOMMENT));
149        values.put(RecipeDbSchema.RecipeTable.Cols.TS_NOTE, recipe.
150        getTS(AsynCallFlag.NEWRATING));
151        return values;
152    }
153
154    public File getPhotoFile(Recipe r){
155        if (r==null) {return null;}
156        File filesDir= mContext.getFilesDir();
157        return new File(filesDir, r.getPhotoFilename());
158    }

```

```
139
140     public Boolean deleteImage(Recipe r) {
141         Boolean success=false;
142         File filesDir= mContext.getFilesDir();
143         File im=new File(filesDir, r.getPhotoFilename());
144         if (im.exists()){
145             im.delete();
146             success=true;
147         }
148         return success;
149     }
150
151     public void clearCookBook() {
152         List<Recipe> recipes=new ArrayList<>();
153         recipes=getRecipes();
154         for (Recipe r:recipes){
155             deleteImage(r);
156             removeRecipe(r);
157         }
158     }
159
160     public void fillCookBook(List<Recipe> recipes) {
161         for(Recipe r:recipes){
162             addRecipe(r);
163         }
164     }
165
166     public Boolean isThereMail(){
167         List<Recipe> recipes=new ArrayList<>();
168         recipes=getRecipes();
169         for(Recipe r:recipes){
170             if (r.IsMessage())
171                 return true;
172         }
173         return false;
174     }
175 }
176
```

```
1 package com.example.cookbook;
2
3 import android.content.Context;
4 import android.content.SharedPreferences;
5 import android.preference.PreferenceManager;
6 import android.util.Log;
7
8 import java.util.UUID;
9 //*****
10 // to invoke :
11 //      public SessionInfo mSession;
12 //      mSession= SessionInfo.get(getApplicationContext());
13 //      or    SessionInfo.get(getActivity());
14 //*****
15 public class SessionInfo {
16     private static SessionInfo ourInstance;
17     private User mUser;
18     private Context mContext;
19     private Boolean mIsConnected;
20     private Boolean mReqNewSession;
21     private String CB_FAMILY="family";
22     private String CB_NAME="name";
23     private String CB_ID="iduser";
24     private String NOT_FOUND="Not found";
25     private static final String TAG = "DebugSessionInfo";
26     private static String URLPATH="http://82.66.37.73:8085/cb/";
27     public static int CONNECT_TIMEOUT = 10000;
28     public static int READ_TIMEOUT = 10000;
29
30     public static SessionInfo get(Context context) {
31         if (ourInstance==null){
32             ourInstance= new SessionInfo(context);
33         }
34         return ourInstance;
35     }
36
37     private SessionInfo(Context context) {
38         mContext=context.getApplicationContext();
39         mIsConnected=false;
40         mReqNewSession=false;
41         String sharedPref;
42         sharedPref= PreferenceManager.getDefaultSharedPreferences(
43             context)
44             .getString(CB_ID, NOT_FOUND);
45         if (sharedPref.equals(NOT_FOUND)){
46             mUser = new User(NOT_FOUND, NOT_FOUND);
47         } else {
48             mUser = new User(PreferenceManager.
49                 getDefaultSharedPreferences(context)
50                     .getString(CB_FAMILY, NOT_FOUND),
51                     PreferenceManager.getDefaultSharedPreferences(context)
52                         .getString(CB_NAME, NOT_FOUND));
53             mUser.setId(UUID.fromString(sharedPref));
54         }
55     }
56 }
```

```
52     }
53
54
55     public User getUser() {
56         return mUser;
57     }
58
59     public void setStoredUser(User user) {
60         PreferenceManager.getDefaultSharedPreferences(mContext)
61             .edit()
62             .putString(CB_FAMILY, user.getFamily())
63             .putString(CB_NAME, user.getName())
64             .putString(CB_ID, user.getId().toString())
65             .apply();
66         mUser=user;
67     }
68     public void clearStoredUser(){
69         SharedPreferences settings = mContext.getSharedPreferences(""
70             PreferencesName", Context.MODE_PRIVATE);
71         settings.edit().remove("CB_FAMILY").commit();
72         settings.edit().remove("CB_NAME").commit();
73         settings.edit().remove("CB_ID").commit();
74     }
75
76     public Boolean IsEmpty(){
77         if (mUser.getName().equals(NOT_FOUND)){return true;}
78         return false;
79     }
80
81     public Boolean IsReqNewSession() {
82         return mReqNewSession;
83     }
84
85     public void setReqNewSession(Boolean reqNewSession) {
86         mReqNewSession = reqNewSession;
87     }
88
89     public void setConnection(Boolean b){
90         mIsConnected=b;
91     }
92     public Boolean IsConnected(){
93         return mIsConnected;
94     }
95
96     public Context getContext(){return mContext;}
97
98     public String getURLPath(){return URLPATH;}
99     public int getConnectTimeout(){return CONNECT_TIMEOUT;}
100    public int getReadTimeout(){return READ_TIMEOUT;}
101
102 }
103
```

```
1 package com.example.cookbook;
2
3 import android.content.Context;
4 import android.graphics.Bitmap;
5 import android.util.Log;
6
7 import org.json.JSONArray;
8 import org.json.JSONObject;
9
10 import java.io.BufferedReader;
11 import java.io.BufferedWriter;
12 import java.io.File;
13 import java.io.FileOutputStream;
14 import java.io.IOException;
15 import java.io.InputStreamReader;
16 import java.io.OutputStream;
17 import java.io.OutputStreamWriter;
18 import java.io.UnsupportedEncodingException;
19 import java.net.HttpURLConnection;
20 import java.net.MalformedURLException;
21 import java.net.URL;
22 import java.net.URLEncoder;
23 import java.text.DateFormat;
24 import java.text.DecimalFormat;
25 import java.text.SimpleDateFormat;
26 import java.util.ArrayList;
27 import java.util.Date;
28 import java.util.HashMap;
29 import java.util.List;
30 import java.util.Map;
31 import java.util.UUID;
32
33 public class NetworkUtils {
34     private SessionInfo mSession;
35     private static final String TAG = "CB_NetworkUtils";
36     private static final String MYSQLDATEFORMAT="yyyy-MM-dd HH:mm:ss";
37
38     public NetworkUtils(Context c) {
39         mSession=SessionInfo.get(c);
40     }
41
42     public String sendGetRequest(String uri) {
43         try {
44             URL url = new URL(uri);
45             HttpURLConnection con = (HttpURLConnection) url.
46             openConnection();
46             BufferedReader bufferedReader = new BufferedReader(new
47             InputStreamReader(con.getInputStream()));
48             String result;
49             StringBuilder sb = new StringBuilder();
50             while((result = bufferedReader.readLine())!=null){
51                 sb.append(result);
51             }
52             return sb.toString();
52         }
53     }
54 }
```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\NetworkUtils.java

```
53         } catch (Exception e) {
54             return null;
55         }
56     }
57
58     public String sendPostRequest(String requestURL,
59                                     HashMap<String, String>
60                                     postDataParams) {
61         URL url;
62         String response = "";
63         try {
64             url = new URL(requestURL);
65
66             HttpURLConnection conn = (HttpURLConnection) url.
67             openConnection();
68             conn.setReadTimeout(mSession.getReadTimeout());
69             conn.setConnectTimeout(mSession.getConnectTimeout());
70             conn.setRequestMethod("POST");
71             conn.setDoInput(true);
72             conn.setDoOutput(true);
73             OutputStream os = conn.getOutputStream();
74             BufferedWriter writer = new BufferedWriter(
75                 new OutputStreamWriter(os, "UTF-8"));
76             writer.write(getpostDataString(postDataParams));
77             writer.flush();
78             writer.close();
79             os.close();
80             int responseCode = conn.getResponseCode();
81             if (responseCode == HttpURLConnection.HTTP_OK) {
82                 BufferedReader br = new BufferedReader(new
83                 InputStreamReader(conn.getInputStream()));
84                 response = br.readLine();
85             } else {
86                 response = "Error Registering";
87             }
88             return response;
89         }
90
91         public String sendPostRequestJson(String requestURL,
92                                         HashMap<String, String>
93                                         postDataParams) {
94             URL url;
95             try {
96                 url = new URL(requestURL);
97                 HttpURLConnection conn = (HttpURLConnection) url.
98                 openConnection();
99                 conn.setReadTimeout(mSession.getReadTimeout());
100                conn.setConnectTimeout(mSession.getConnectTimeout());
101                conn.setRequestMethod("POST");
102                conn.setDoInput(true);
```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\NetworkUtils.java

```
102         conn.setDoOutput(true);
103         OutputStream os = conn.getOutputStream();
104         BufferedWriter writer = new BufferedWriter(
105                 new OutputStreamWriter(os, "UTF-8"));
106         writer.write(this.getPostDataString(postDataParams));
107         writer.flush();
108         writer.close();
109         os.close();
110         StringBuilder sb = new StringBuilder();
111         BufferedReader bufferedReader = new BufferedReader(new
112             InputStreamReader(conn.getInputStream()));
113         String json;
114         while ((json = bufferedReader.readLine()) != null) {
115             sb.append(json + "\n");
116         }
117         return sb.toString().trim();
118     } catch (Exception e) {
119         Log.d(TAG, ">" + e);
120         return null;
121     }
122     private String getPostDataString(HashMap<String, String> params)
123     {
124         StringBuilder result = new StringBuilder();
125         boolean first = true;
126         for (Map.Entry<String, String> entry : params.entrySet()) {
127             if (first)
128                 first = false;
129             else
130                 result.append("&");
131             try {result.append(URLEncoder.encode(entry.getKey(), "UTF
132 -8"));
133                 result.append("=");
134                 result.append(URLEncoder.encode(entry.getValue(), "UTF-8"
135 ));}
136             } catch (Exception e){
137                 Log.d(TAG, "Pb with >" + entry.getKey() + ":" + entry.
138                 getValue() + "<");
139             }
140         }
141         return result.toString();
142     }
143     public List<Comment> parseCommentsOfRecipe(String json){
144         Comment c;
145         List<Comment> cs=new ArrayList<>();
146         if ((json==null)|| (json.equals("")))
147             return null;
148         try {
149             JSONArray jarl=new JSONArray(json);
150             for (int i=0; i<jar1.length(); i++){
151                 JSONObject obj = jarl.getJSONObject(i);
152                 c=parseObjectComment(obj);
153                 if (c!=null) cs.add(c);
154             }
155         } catch (Exception e){}
```

```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\NetworkUtils.java

151             Log.d(TAG, "Failure in parsing JSON Array Comments "+e);
152             return null;
153         }
154         return cs;
155     }
156
157     public Comment parseObjectComment(JSONObject obj) {
158         try {
159             UUID uuid=UUID.fromString(obj.getString("id_user"));
160             User u=new User(obj.getString("family"), obj.getString("name")
161 ) );
162             u.setId(uuid);
163             String s=obj.getString("date_comment");
164             Date date=new SimpleDateFormat(MYSQLDATEFORMAT).parse(s);
165             return new Comment(obj.getString("comment"),u,date);
166         } catch (Exception e) {
167             Log.d(TAG, "Failure in parsing JSONObject Comments "+e);
168             return null;
169         }
170     }
171     public List<Note> parseNotesOfRecipe(String json){
172         Note n;
173         List<Note> ns=new ArrayList<>();
174         if ((json==null)|| (json.equals("")))) return null;
175         try {
176             JSONArray jar1=new JSONArray(json);
177             for (int i=0; i<jar1.length(); i++){
178                 JSONObject obj = jar1.getJSONObject(i);
179                 n=parseObjectNote(obj);
180                 if (n!=null) ns.add(n);
181             }
182         } catch (Exception e){
183             Log.d(TAG, "Failure in parsing JSON Array Comments "+e);
184             return null;
185         }
186         return ns;
187     }
188     public Note parseObjectNote(JSONObject obj) {
189         try {
190             // uuid=UUID.fromString(obj.getString("id_recipe"));
191             UUID uuid=UUID.fromString(obj.getString("id_user"));
192             User u=new User(obj.getString("family"), obj.getString("name") );
193             u.setId(uuid);
194             String s=obj.getString("date_note");
195             Date date=new SimpleDateFormat(MYSQLDATEFORMAT).parse(s);
196             return new Note(obj.getInt("note"),u,date);
197         } catch (Exception e) {
198             Log.d(TAG, "Failure in parsing JSONObject Note : "+e);
199             return null;
200         }
201     }
202     public Recipe parseObjectRecipeStamp(JSONObject obj) {

```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\NetworkUtils.java

```
203     try {
204         //----- uuid and users
205         UUID uuid = UUID.fromString(obj.getString("id_recipe"));
206         Recipe r = new Recipe(uuid);
207         uuid = UUID.fromString(obj.getString("id_owner"));
208         User u = new User(uuid);
209         r.setOwner(u);
210         //dates
211         Date date;
212         String s1 = obj.getString("lastupdate_recipe");
213         if (s1==null) return null;
214         if ((!s1.equals("null"))&&(s1.length()>5)) {
215             date = new SimpleDateFormat(MYSQLDATEFORMAT).parse(s1)
216         }
217         r.setDate(date);
218     } else {return null;}
219     s1 = obj.getString("lastupdate_photo");
220     if ((!s1.equals("null"))&&(s1.length()>5)) {
221         date = new SimpleDateFormat(MYSQLDATEFORMAT).parse(s1)
222     }
223     r.setDatePhoto(date);
224     s1=obj.getString("message");
225     if ((s1==null)|| (s1.equals("null"))) s1="";
226     r.setMessage(s1);
227     r.setStatus(StatusRecipe.valueOf(obj.getString("status")))
228
229     s1 = obj.getString("id_from");
230     if ((!s1.equals("null"))&&(s1.length()>5)) {
231         uuid = UUID.fromString(s1);
232         u = new User(uuid);
233         r.setOwner(u);
234     }
235     catch (Exception e){
236         Log.d(TAG, "Failure in parsing JSONObject Recette Stamp
237 : "+e);
238         return null;
239     }
240
241     public List<Recipe> parseStampsTiers(String json){
242         Recipe r;
243         List<Recipe> rs=new ArrayList<>();
244         if ((json==null)|| (json.equals(""))) return null;
245         try {
246             JSONArray jarrl=new JSONArray(json);
247             for (int i=0; i<jarrl.length(); i++){
248                 JSONObject obj = jarrl.getJSONObject(i);
249                 r=parseObjectRecipeStamp(obj);
250                 if (r!=null) rs.add(r);
251             }
252         } catch (Exception e){
```

```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\NetworkUtils.java
253             Log.d(TAG, "Failure in parsing JSON Array Comments "+e);
254         return null;
255     }
256     return rs;
257 }
258
259     public boolean parseObjectRecipe(Recipe r, JSONObject obj,
260         boolean withphoto, boolean full){
261         try {
262             UUID uuid;
263             String s1, s2;
264             User u;
265             if (full) {
266                 uuid = UUID.fromString(obj.getString("id_owner"));
267                 s1 = obj.getString("owner_family");
268                 s2 = obj.getString("owner_name");
269                 u = new User(s1, s2);
270                 u.setId(uuid);
271                 r.setOwner(u);
272                 s1=obj.getString("message");
273                 if ((s1==null)|| (s1.equals("null"))) s1="";
274                 r.setMessage(s1);
275                 r.setStatus(StatusRecipe.valueOf(obj.getString(
276                     "status")));
277                 s1 = obj.getString("id_from");
278                 if ((!s1.equals("null"))&&(s1.length()>5)&&(s1!=null)
279             ) {
280                 uuid = UUID.fromString(s1);
281                 s1 = obj.getString("from_family");
282                 s2 = obj.getString("from_name");
283                 u = new User(s1, s2);
284                 u.setId(uuid);
285                 r.setUserFrom(u);
286             }
287             //----- dates
288             Date date;
289             s1 = obj.getString("lastupdate_recipe");
290             if ((!s1.equals("null"))&&(s1.length()>5)&&(s1!=null)) {
291                 date = new SimpleDateFormat(MYSQLDATEFORMAT).parse(s1
292             );
293                 r.setDate(date);
294             } else {return false;}
295             s1 = obj.getString("lastupdate_photo");
296             if ((!s1.equals("null"))&&(s1.length()>5)&&(s1!=null)) {
297                 date = new SimpleDateFormat(MYSQLDATEFORMAT).parse(s1
298             );
299                 r.setDatePhoto(date);
300             }
301             //----- titre, source x2, nbpers
302             s1 = obj.getString("title");
303             URL url;
304             if (s1==null) return false;
305             if (s1.equals("null")) return false;

```

```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\NetworkUtils.java

302         r.setTitle(s1);
303         r.setSource(obj.getString("source"));
304         s1 = obj.getString("source_url");
305         if (!s1.equals("null") && (s1.length() > 5) && (s1 != null)) {
306             try {
307                 url = new URL(s1);
308                 r.setSource_url(url);
309             } catch (MalformedURLException e) {
310                 Log.d(TAG, "getURL from cookbook download failed
in parse recipe");
311             }
312         }
313         int nbp=obj.getInt("nb_pers");
314         if (nbp==0) return false;
315         r.setNbPers(nbp);
316         //----- Etapes and ing
317         DecimalFormat formatter = new DecimalFormat("00");
318         for (int i = 0; i < r.getNbStepMax(); i++) {
319             s1 = "etape" + formatter.format(i + 1);
320             s2=obj.getString(s1);
321             if (!s2.equals("null")) {
322                 r.setStep(i + 1, s2);
323             }
324             for (int i = 0; i < r.getNbIngMax(); i++) {
325                 s1 = "ing" + formatter.format(i + 1);
326                 s2=obj.getString(s1);
327                 if (!s2.equals("null")) {
328                     r.setIngredient(i + 1, s2);
329                 }
330             //----- enum
331             r.setSeason(RecipeSeason.valueOf(obj.getString("season")));
332         }
333         r.setDifficulty(RecipeDifficulty.valueOf(obj.getString("difficulty")));
334         // ----- photo
335         CookBook cb = CookBook.get(mSession.getContext());
336         File f=cb.getPhotoFile(r);
337         if (withphoto) {
338             s1 = obj.getString("photo");
339             if ((!s1.equals("null")) && (!s1.equals("")) && (s1 != null
)) {
340                 Bitmap bm=PictureUtils.getBitmapFromString(s1);
341                 if (f.exists()){
342                     Log.d(TAG, "file " + f.toString()+" écrasée
dans parsing recipe !");
343                     f.delete();
344                 }
345                 try {
346                     if(!f.createNewFile()) {
347                         Log.d(TAG, "Error in creating file "+f.
toString());
348                     }
349                 } catch (IOException e) {

```

```
File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\NetworkUtils.java
350                               Log.d(TAG, "Error in creating file "+f.
351                               toString() + ":" + e);
352                           }
353                           try {
354                               FileOutputStream out = new FileOutputStream(f
355                           );
356                               bm.compress(Bitmap.CompressFormat.JPEG, 100,
357                               out);
358                               out.flush();
359                               out.close();
360                           } catch (Exception e) {
361                               Log.d(TAG, "Storing bitmap error " + e);
362                           }
363
364                           return true;
365                   }
366               catch (Exception e){
367                   Log.d(TAG, "Failure in parsing JSONObject Recette : "+e);
368                   return false;
369               }
370           }
371
372   }
373 }
```

```
1 package com.example.cookbook;
2
3 import android.app.Activity;
4 import android.graphics.Bitmap;
5 import android.graphics.BitmapFactory;
6 import android.graphics.Point;
7 import android.util.Base64;
8
9
10 import java.io.ByteArrayOutputStream;
11 import java.io.File;
12
13 public class PictureUtils {
14     public static Bitmap getScaledBitmap(String path, int destWidth,
15     int destHeight) {
16         BitmapFactory.Options options=new BitmapFactory.Options();
17         options.inJustDecodeBounds=true;
18         BitmapFactory.decodeFile(path, options);
19         float srcWidth=options.outWidth;
20         float srcHeight=options.outHeight;
21         int inSampleSize=1;
22         if (srcHeight>destHeight || srcWidth>destWidth) {
23             float heightScale=srcHeight / destHeight;
24             float widthScale=srcWidth/destWidth;
25             inSampleSize=Math.round(heightScale > widthScale ?
26             heightScale : widthScale);
27         }
28         options=new BitmapFactory.Options();
29         options.inSampleSize=inSampleSize;
30         return BitmapFactory.decodeFile(path, options);
31     }
32
33     public static Bitmap getBitmap(String path) {
34         BitmapFactory.Options options=new BitmapFactory.Options();
35         options.inJustDecodeBounds=true;
36         BitmapFactory.decodeFile(path, options);
37         int inSampleSize=1;
38         options=new BitmapFactory.Options();
39         options.inSampleSize=inSampleSize;
40         return BitmapFactory.decodeFile(path, options);
41     }
42     @SuppressWarnings("deprecation")
43     public static Bitmap getScaledBitmap(String path, Activity
44     activity){
45         Point size=new Point();
46         activity.getWindowManager().getDefaultDisplay().getSize(size);
47         return getScaledBitmap(path, size.x, size.y);
48     }
49     public static Bitmap getScaledBitmap(String path, Activity
50     activity, int width){
51         Point size=new Point();
52         activity.getWindowManager().getDefaultDisplay().getSize(size);
53         int height=(Integer) Math.round(width*size.y/size.x);
54         return getScaledBitmap(path, width, height);
55     }
56 }
```

```
51      }
52
53      public static String getStringImage(Bitmap bmp) {
54          ByteArrayOutputStream baos = new ByteArrayOutputStream();
55          bmp.compress(Bitmap.CompressFormat.JPEG, 100, baos);
56          byte[] imageBytes = baos.toByteArray();
57          String encodedImage = Base64.encodeToString(imageBytes,
58              Base64.DEFAULT);
59          return encodedImage;
60
61      public static Bitmap getBitmapFromString(String s) {
62          byte[] decodedString = Base64.decode(s, Base64.DEFAULT);
63          Bitmap decodedByte = BitmapFactory.decodeByteArray(
64              decodedString, 0, decodedString.length);
65          return decodedByte;
66
67  }
```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\RecipeSeason.java

```
1 package com.example.cookbook;
2
3 public enum RecipeSeason {
4     WINTER, SUMMER, ALLYEAR;
5
6     private static RecipeSeason[] list=RecipeSeason.values();
7
8     public static RecipeSeason getSeason(int i){
9         return list[i];
10    }
11
12    public static int getIndex(RecipeSeason r){
13        for(int i=0;i<list.length;i++) {
14            if (list[i].equals(r)){ return i;}
15        }
16        return 0;
17    }
18
19 }
20
```

```
1 package com.example.cookbook;
2
3 import android.content.Context;
4 import android.graphics.Bitmap;
5 import android.os.AsyncTask;
6 import android.util.Log;
7
8 import org.json.JSONArray;
9 import org.json.JSONObject;
10
11 import java.io.File;
12 import java.io.InputStream;
13 import java.net.HttpURLConnection;
14 import java.net.URL;
15 import java.text.DateFormat;
16 import java.text.DecimalFormat;
17 import java.text.SimpleDateFormat;
18 import java.util.ArrayList;
19 import java.util.Calendar;
20 import java.util.Date;
21 import java.util.HashMap;
22 import java.util.List;
23 import java.util.UUID;
24
25 enum AsynCallFlag { NEWRECIPE, NEWPHOTO, NEWCOMMENT, NEWRATING,
26   GLOBALSYNC, DELETERECIPE}
27
28 class AsyncCallClass extends AsyncTask<Void, Integer, Boolean> {
29   // Constantes
30   private static final String TAG = "CB_AsynCalls";
31   private static final String PHP204 = "return204.php";
32   private static final String PHPUPDATECREATE =
33     "updateorcreaterecipe.php";
34   private static final String PHPUPUPLOADPHOTO =
35     "uploadphotointorecipe.php";
36   private static final String PHPDELETERECIPE =
37     "deletereceipt.php";
38   private static final String PHPGETCOMMENTSOFRECIPE =
39     "getcommentsofrecipe.php";
40   private static final String PHPADDCOMMENTTORECIPE =
41     "addcommentwithdate.php";
42   private static final String PHPADDNOTETORECIPE =
43     "addnotewithdate.php";
44   private static final String PHPGETNOTESOFRECIPE =
45     "getnotesofrecipe.php";
46   private static final String PHPGETSTAMPSTIERS =
47     "getreciestampstiers.php";
48   private static final String PHPGETRECIPEFROMCB =
49     "getreciepefromcb.php";
50   private static final String PHPGETRECIPEFROMCBWITHPHOTO =
51     "getreciepefromcbwithphoto.php";
52   private static final String MYSQLDATEFORMAT="yyyy-MM-dd HH:mm:ss";
53   // Variable
54   private static Context mContext;
55   private SessionInfo mSession;
```

```
45     private NetworkUtils mNetUtils;
46     private CookBook mCookbook;
47
48     public AsyncCallClass(Context context) {
49         mContext=context;
50         mCookbook = CookBook.get(mContext);
51         mSession = SessionInfo.get(mContext);
52         mNetUtils = new NetworkUtils(mContext);
53     }
54
55     @Override
56     protected Boolean doInBackground(Void... params) {
57         Boolean isChanged=false;
58         if (!test204()) {
59             return false;
60         }
61         Log.d(TAG, "***** SYNC *****");
62         if (syncTiersRecipe(mSession.getUser())) isChanged=true;
63         List<Recipe> mrecipes=mCookbook.getRecipes();
64         for(Recipe r:mrecipes){
65             if (r.getOwnerIdString().equals(mSession.getUser().getId()
66 .toString())){
67                 if (r.getTS(AsynCallFlag.NEWRECIPE) == 1) {
68                     if (uploadRecipe(r)) {
69                         Log.d(TAG, "Recette " + r.getTitle() + " mise
70                         à jour");
71                         r.updateTS(AsynCallFlag.NEWRECIPE, false);
72                         mCookbook.updateRecipe(r);
73                         isChanged=true;
74                     } else {
75                         Log.d(TAG, "Recette " + r.getTitle() + " non
76                         mise à jour");
77                     }
78                 if (r.getTS(AsynCallFlag.NEWPHOTO) == 1) {
79                     if (uploadPhoto(r)) {
80                         Log.d(TAG, "Recette Photo " + r.getTitle() +
81                         " mise à jour");
82                         r.updateTS(AsynCallFlag.NEWPHOTO, false);
83                         mCookbook.updateRecipe(r);
84                         isChanged=true;
85                     }
86                 }
87                 if (syncCommentsRecipe(r)) {
88                     Log.d(TAG, "Comments de " + r.getTitle()+" updaté");
89                     isChanged=true;
90                     r.updateTS(AsynCallFlag.NEWCOMMENT, false);
91                     mCookbook.updateRecipe(r);
92                 }
93             }
94         }
95     }
96 }
```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\AsyncCallClass.java

```
93         if (syncNotesRecipe(r)) {
94             Log.d(TAG, "Notes de " + r.getTitle() + " updaté");
95             isChanged=true;
96             r.updateTS(AsynCallFlag.NEWRATING, false);
97             mCookbook.updateRecipe(r);
98         }
99         if (r.IsMarkedDeleted()){
100             if (deleteRecipeFromCB(r)) {
101                 Log.d(TAG, "Recette effacée : " + r.getTitle());
102                 mCookbook.removeRecipe(r);
103                 mCookbook.deleteImage(r);
104                 isChanged=true;
105             } else{
106                 Log.d(TAG, "Recette " + r.getTitle() + " non
107                 effacée");
108             }
109         }
110         return isChanged;
111     }
112
113     @Override
114     protected void onPostExecute(Boolean isChanged) {
115         super.onPostExecute(isChanged);
116         Log.d(TAG, "Has changed ? " + isChanged);
117     }
118
119     private Boolean test204() {
120         try {
121             URL url = new URL(mSession.getURLPath() + PHP204);
122             HttpURLConnection conn = (HttpURLConnection) url.
openConnection();
123             conn.setConnectTimeout(mSession.getConnectTimeout());
124             conn.setReadTimeout(mSession.getReadTimeout());
125             conn.setRequestMethod("HEAD");
126             InputStream in = conn.getInputStream();
127             int status = conn.getResponseCode();
128             in.close();
129             conn.disconnect();
130             return (status == HttpURLConnection.HTTP_NO_CONTENT);
131         } catch (Exception e) {
132             Log.d(TAG, "Test 204 : " + e);
133             return false;
134         }
135     }
136
137     private Boolean uploadRecipe(Recipe r) {
138         HashMap<String, String> data = new HashMap<>();
139         String sl;
140         DateFormat dateFormat = new SimpleDateFormat(MYSQLDATEFORMAT)
;
141         data.put("idrecipe", r.getId().toString());
142         data.put("iduser", r.getOwner().getId().toString());
143         data.put("title", r.getTitle());
```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\AsyncCallClass.java

```
144         data.put("source", r.getSource());
145         data.put("sourceurl", r.getSource_url_name());
146         DecimalFormat formatter = new DecimalFormat("00");
147         data.put("nbpers", formatter.format(r.getNbPers()));
148         s1 = dateFormat.format(r.getDate());
149         data.put("date", s1);
150         for (int i = 0; i < r.getNbStepMax(); i++) {
151             s1 = "etape" + formatter.format(i + 1);
152             data.put(s1, r.getStep(i + 1));
153         }
154         for (int i = 0; i < r.getNbIngMax(); i++) {
155             s1 = "ing" + formatter.format(i + 1);
156             data.put(s1, r.getIngredient(i + 1));
157         }
158         data.put("season", r.getSeason().toString());
159         data.put("difficulty", r.getDifficulty().toString());
160         String result = mNetUtils.sendPostRequestJson(mSession.
getURLPath() + PHPUPDATECREATE, data);
161         if (result==null) return false;
162         if (!result.trim().equals("1")) {
163             Log.d(TAG, "Retour de "+PHPUPDATECREATE+" =>" +result+"
```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\AsyncCallClass.java

```
194         data.put("iduser", mSession.getUser().getId().toString());
195         String result = mNetUtils.sendPostRequestJson(mSession.
196             getURLPath() + PHPDELETERECIPE, data);
197         if (result==null) return false;
198         if (!result.trim().equals("1")) {
199             Log.d(TAG, "Retour de "+ PHPDELETERECIPE+" = "+result);
200             return false;
201         }
202     }
203 
204     private Boolean syncCommentsRecipe(Recipe r) {
205         boolean ret=false;
206         HashMap<String, String> data = new HashMap<>();
207         data.put("idrecipe", r.getId().toString());
208         String result = mNetUtils.sendPostRequestJson(mSession.
209             getURLPath() + PHPGETCOMMENTSOFRECIPE, data);
210         List<Comment> downloadedComments=mNetUtils.
211             parseCommentsOfRecipe(result);
212         List<Comment> recipeComments=r.getComments();
213         //----- boucle local
214         List<Comment> cloc= new ArrayList<>();
215         Comment c,ci;
216         for (int i = 0; i < recipeComments.size(); i++){
217             ci=recipeComments.get(i);
218             c=new Comment(ci.getText(),ci.getUser(),ci.getDate());
219             if (downloadedComments.indexOf(c)==-1) cloc.add(c);
220         }
221         //----- boucle serveur
222         List<Comment> cser= new ArrayList<>();
223         for (int i = 0; i < downloadedComments.size(); i++){
224             ci=downloadedComments.get(i);
225             c=new Comment(ci.getText(),ci.getUser(),ci.getDate());
226             if (recipeComments.indexOf(c)==-1) {
227                 cser.add(c);
228             }
229         }
230         for (int i = 0; i < cser.size(); i++){
231             r.addComment(cser.get(i));
232         }
233         if (cser.size()>0) {
234             mCookbook.updateRecipe(r);
235             ret=true;
236         }
237         if (cloc.size()>0) {
238             if (!uploadComments(r,cloc)) {ret=false;}
239         }
240     }
241     private Boolean uploadComments(Recipe r, List<Comment> cs) {
242         if (cs==null) return false;
243         if (cs.size()==0) return true;
244         HashMap<String, String> data = new HashMap<>();
```

```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\AsyncCallClass.java

245         DateFormat dateFormat = new SimpleDateFormat(MYSQLDATEFORMAT)
246         ;
247         String s1;
248         boolean b=true;
249         for (Comment c:cs) {
250             data.clear();
251             data.put("idrecipe", r.getId().toString());
252             data.put("idfrom", c.getUser().getId().toString());
253             data.put("comment", c.getTxt());
254             s1 = dateFormat.format(c.getDate());
255             data.put("date",s1 );
256             String result = mNetUtils.sendPostRequestJson(mSession.
getURLPath() + PHPADDCOMMENTTORECIPE, data);
257             if (result==null) b=false;
258             if (!result.equals("1")) {
259                 Log.d(TAG, "Retour de "+ PHPADDCOMMENTTORECIPE+" = "+
result);
260                 b=false;
261             }
262         }
263         private Boolean syncNotesRecipe(Recipe r) {
264             boolean ret=false;
265             HashMap<String, String> data = new HashMap<>();
266             data.put("idrecipe", r.getId().toString());
267             String result = mNetUtils.sendPostRequestJson(mSession.
getURLPath() + PHPGETNOTESOFREREIPE, data);
268             List<Note> downloadedNotes=mNetUtils.parseNotesOfRecipe(
result);
269             List<Note> recipeNotes=r.getNotes();
270             //----- boucle local
271             List<Note> cloc= new ArrayList<>();
272             Note c,ci;
273             for (int i = 0; i < recipeNotes.size(); i++){
274                 ci=recipeNotes.get(i);
275                 c=new Note(ci.getNote(),ci.getUser(),ci.getDate());
276                 if (downloadedNotes.indexOf(c)==-1) cloc.add(c);
277             }
278             //----- boucle serveur
279             List<Note> cser= new ArrayList<>();
280             for (int i = 0; i < downloadedNotes.size(); i++){
281                 ci=downloadedNotes.get(i);
282                 c=new Note(ci.getNote(),ci.getUser(),ci.getDate());
283                 if (recipeNotes.indexOf(c)==-1) {
284                     cser.add(c);
285                 }
286             }
287             for (int i = 0; i < cser.size(); i++){
288                 r.addNote(cser.get(i));
289             }
290             if (cser.size()>0) {
291                 mCookbook.updateRecipe(r);
292                 ret=true;
293             }

```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\AsyncCallClass.java

```
294         if (cloc.size()>0) {
295             if (!uploadNotes(r,cloc)) {ret=false;}
296             else {ret=true;}
297         }
298         return ret;
299     }
300     private Boolean uploadNotes(Recipe r, List<Note> cs){
301         if (cs==null) return false;
302         if (cs.size()==0) return true;
303         HashMap<String, String> data = new HashMap<>();
304         DateFormat dateFormat = new SimpleDateFormat(MYSQLDATEFORMAT)
305 ;
306         DecimalFormat formatter = new DecimalFormat("00");
307         String s1;
308         boolean b=true;
309         for (Note c:cs) {
310             data.clear();
311             data.put("idrecipe", r.getId().toString());
312             data.put("idfrom", c.getUser().getId().toString());
313             data.put("note", formatter.format(c.getNote()));
314             s1 = dateFormat.format(c.getDate());
315             data.put("date",s1 );
316             String result = mNetUtils.sendPostRequestJson(mSession.
317                 getURLPath() + PHPADDNOTETORECIPE, data);
318             if (result==null) b=false;
319             if (!result.equals("1")) {
320                 Log.d(TAG, "Retour de "+ PHPADDNOTETORECIPE+" = "+
321                     result);
322                 b=false;
323             }
324         }
325         return b;
326     }
327     private Boolean syncTiersRecipe(User user) {
328         boolean ret=false;
329         HashMap<String, String> data = new HashMap<>();
330         data.put("iduser", user.getId().toString());
331         String result = mNetUtils.sendPostRequestJson(mSession.
332             getURLPath() + PHPGETSTAMPSTIERS, data);
333         if (result==null) return ret;
334         List<Recipe> tiersRecipe=mNetUtils.parseStampsTiers(result);
335         if (tiersRecipe==null) return ret;
336         boolean withphoto=false,update=false;
337         Recipe rloc, rnew;
338         for(Recipe r:tiersRecipe) {
339             rloc=mCookbook.getRecipe(r.getId());
340             if (rloc==null) {
341                 rnew=downloadRecipe(r);
342                 mCookbook.addRecipe(rnew);
343                 Log.d(TAG, "Recette "+ rnew.getTitle()+" downloadée")
344 ;
345                 ret=true;
346             } else {
347                 if (rloc.isVisible()){
348                     withphoto=IsAfterAndNonNull(r.getDatePhoto(),
```

```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\AsyncCallClass.java

342 rloc.getDatePhoto();  

343 update=IsAfterAndNotNull(r.getDate(), rloc.  

344 getDate());  

345 if(update || withphoto){  

346     if (updateRecipe(rloc, withphoto)){  

347         mCookbook.updateRecipe(rloc);  

348         Log.d(TAG, "Recette "+ rloc.getTitle()+"  

349         updatée (with photo :"+withphoto+"));  

350         ret=true;  

351     }  

352 }  

353 }  

354 return ret;  

355 }  

356 private boolean IsAfterAndNotNull(Date ds, Date dl){  

357     Calendar c=Calendar.getInstance();  

358     c.set(2000,0,1,0, 0);  

359     Date d0=c.getTime();  

360     boolean morerecent=(ds.compareTo(dl)==1);  

361     boolean isnotnull=(ds.compareTo(d0)==1);  

362     return morerecent && isnotnull;  

363 }  

364  

365 private Recipe downloadRecipe(Recipe ref){  

366     if (ref==null) return null;  

367     HashMap<String, String> data = new HashMap<>();  

368     data.put("idrecipe", ref.getId().toString().trim());  

369     data.put("iduser", mSession.getUser().getId().toString().trim  

());  

370     String result = mNetUtils.sendPostRequestJson(mSession.  

getURLPath()+PHPGETRECIPEFROMCBWITHPHOTO,data);  

371     Recipe r=new Recipe();  

372     try {  

373         JSONArray jarr1 = new JSONArray(result);  

374         if (jarr1.length()!=1){  

375             Log.d(TAG, " Number of json objects from  

downloadRecipes =" + jarr1.length()+" !");  

376             return null;  

377         } else {  

378             JSONObject obj = jarr1.getJSONObject(0);  

379             r = new Recipe(UUID.fromString(obj.getString("  

id_recipe")));  

380             if (!mNetUtils.parseObjectRecipe(r,obj, true, true))  

381                 return null;  

382         } catch (Exception e) {  

383             Log.d(TAG, " Error parsing CB in downloadRecipe" + e);  

384         }  

385         return r;  

386     }  

387     private Boolean updateRecipe(Recipe ref, boolean withphoto){  

388         if (ref==null) return null;

```

```
File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\AsyncCallClass.java

389         HashMap<String, String> data = new HashMap<>();
390         data.put("idrecipe", ref.getId().toString().trim());
391         data.put("withphoto", (withphoto)?"1":"0");
392         String result = mNetUtils.sendPostRequestJson(mSession.
393             getURLPath() + PHPGETRECIPEFROMCB, data);
393         Recipe r=new Recipe();
394         try {
395             JSONArray jarr1 = new JSONArray(result);
396             if (jarr1.length()!=1){
397                 Log.d(TAG, " Number of json objects from
398 downloadRecipes =" + jarr1.length()+" !");
398                 return null;
399             } else {
400                 JSONObject obj = jarr1.getJSONObject(0);
401                 if (!mNetUtils.parseObjectRecipe(ref, obj, withphoto,
401                     false)) {
402                     Log.d(TAG, " Null recipe from JSON object" +
402 result);
403                     return false;
404                 }
405             }
406         } catch (Exception e) {
407             Log.d(TAG, " Error parsing CB in downloadRecipe" + e);
408             return false;
409         }
410         return true;
411     }
412 }
413
```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\RecipeActivity.java

```
1 package com.example.cookbook;
2
3 import android.content.Context;
4 import android.content.Intent;
5 import android.support.v4.app.Fragment;
6
7 import java.util.UUID;
8
9 public class RecipeActivity extends SingleFragmentActivity {
10     private static final String EXTRA_RECIPE_ID="com.example.cookbook.
11     recipe_id";
12
13     public static Intent newIntent(Context packageContexte, UUID
14     recipeId) {
15         Intent intent=new Intent(packageContexte, RecipeActivity.class
16     );
17         intent.putExtra(EXTRA_RECIPE_ID, recipeId);
18         return intent;
19     }
20
21     @Override
22     protected Fragment createFragment() {
23         UUID recipeId=(UUID) getIntent().getSerializableExtra(
24             EXTRA_RECIPE_ID);
25         return RecipeEditFragment.newInstance(recipeId);
26     }
27
28 }
```

```
1 package com.example.cookbook;
2
3 public class RecipeDbSchema {
4     public static final class RecipeTable{
5         public static final String NAME="recipes";
6         public static final class Cols {
7             public static final String UUID="uuid";
8             public static final String OWNER="owner";
9             public static final String TITLE="title";
10            public static final String SOURCE="source";
11            public static final String SOURCE_URL="source_url";
12            public static final String DATE="date";
13            public static final String DATE_PHOTO="date_photo";
14            public static final String NBPERS="nbpers";
15            public static final String[] STEP={"etape1","etape2",
16                                            "etape3", "etape4",
17                                            "etape5", "etape6", "etape7", "etape8", "etape9"};
18            public static final String[] ING={"ing01", "ing02", "ing03",
19                                            "ing04",
20                                            "ing05", "ing06", "ing0e7", "ing08", "ing09", "ing10",
21                                            "ing11",
22                                            "ing12", "ing13", "ing14", "ing15"};
23            public static final String SEASON="season";
24            public static final String DIFFICULTY="difficulty";
25            public static final String COMMENTS="comments";
26            public static final String STATUS="status";
27            public static final String NOTES="notes";
28            public static final String MESSAGE="message";
29            public static final String MESSAGE_FROM="messagefrom";
30            public static final String TS_RECIPE="tsrecipe";
31            public static final String TS_PHOTO="tsphoto";
32            public static final String TS_COMMENT="tscomment";
33            public static final String TS_NOTE="tsnote";
34        }
35    }
36}
```

```
1 package com.example.cookbook;
2
3 import android.content.Intent;
4 import android.graphics.Bitmap;
5 import android.graphics.drawable.AnimationDrawable;
6 import android.os.AsyncTask;
7 import android.os.Bundle;
8 import android.support.v4.content.ContextCompat;
9 import android.support.v7.app.AppCompatActivity;
10 import android.text.Editable;
11 import android.text.TextWatcher;
12 import android.text.method.HideReturnsTransformationMethod;
13 import android.text.method.PasswordTransformationMethod;
14 import android.util.Log;
15 import android.view.View;
16 import android.view.WindowManager;
17 import android.widget.Button;
18 import android.widget.EditText;
19 import android.widget.ImageView;
20 import android.widget.ProgressBar;
21 import android.widget.TextView;
22
23 import org.json.JSONArray;
24 import org.json.JSONObject;
25
26 import java.io.File;
27 import java.io.FileOutputStream;
28 import java.io.IOException;
29 import java.net.MalformedURLException;
30 import java.net.URL;
31 import java.text.DateFormat;
32 import java.text.DecimalFormat;
33 import java.text.SimpleDateFormat;
34 import java.util.ArrayList;
35 import java.util.Date;
36 import java.util.HashMap;
37 import java.util.UUID;
38 import java.util.regex.Pattern;
39
40 public class SplashActivity extends AppCompatActivity {
41     private TextView mMoto;
42     private String mFamilyEntered;
43     private String mMemberEntered;
44     private String mPwdEntered;
45     private String mPwdRead;
46     private TextView mEnterFamilyLbl;
47     private EditText mEnterFamily;
48     private TextView mEnterMemberLbl;
49     private EditText mEnterMember;
50     private TextView mEnterPwdLbl;
51     private EditText mEnterPwd;
52     private TextView mEnterMessage;
53     private Button mNewSession;
54     private Button mNewMember;
```

```

55     private Button mNewFamily;
56     private ProgressBar mProgressBar;
57     private ImageView mNetAnim;
58     private AnimationDrawable frameNetAnim;
59     private ArrayList<User> memberFamily;
60     private ArrayList<Recipe> mRecipes;
61     private SessionInfo mSession;
62     private NetworkUtils mNetUtils;
63     private User mUser;
64     private int mState;
65     private static final String TAG = "CB_SplashActivity";
66     private final static int NEW_FAMILY=1;
67     private final static int NEW_MEMBER=2;
68     private final static int NEW_SESSION=3;
69     private final static int NEW_PWD=3;
70     private final static Integer MINMAX[][]={{8,45},{1,25},{4,25}};
    // min max pour family, member, pwd strings
71     private static final String REGEX_FAMILY="[-_!?\w\p{javaLowerCase}]\p{javaUpperCase}()\p{Space}]*";
72     private static final String REGEX_MEMBER="[-_\w\p{javaLowerCase}]\p{javaUpperCase}]*";
73     private static final String REGEX_PWD="[-_!?\w\p{javaLowerCase}]\p{javaUpperCase}()*";
74     private static final String REGEX[]={REGEX_FAMILY, REGEX_MEMBER,
    REGEX_PWD};
75     private static final String PHPREQFAMILYCOMP="getfamilycomposition.php";
76     private static final String PHPREQNEWMEMBER="createnewmember.php"
    ;
77     private static final String PHPREQNEWFAMILY="createnewfamily.php"
    ;
78     private static final String PHPREQUPLOADPHOTO="
    uploadphotointorecipe.php";
79     private static final String PHPREQGETCB="getcookbook.php";
80     private static final String PHPREQGETNOTES="getnotes.php";
81     private static final String PHPREQGETCOMMENTS="getcomments.php";
82     private static final String MYSQLDATEFORMAT="yyyy-MM-dd HH:mm:ss"
    ;
83
84     @Override
85     protected void onCreate(Bundle savedInstanceState) {
86         super.onCreate(savedInstanceState);
87
88         mSession= SessionInfo.get(getApplicationContext());
89         if ((!mSession.IsEmpty())&&(!mSession.IsReqNewSession())){
90             // **** SYNC ****
91             Intent intent=new Intent(getApplicationContext(),
    RecipeListActivity.class);
92             startActivity(intent);
93             return;
94         }
95         mNetUtils=new NetworkUtils(getApplicationContext());
96         ArrayList<User> memberFamily=new ArrayList<>();
97         ArrayList<Recipe> mRecipes=new ArrayList<>();

```

```

98         TestConnection t;
99         t = new TestConnection();
100        t.setTestConnexion(getApplicationContext());
101        t.testGo();

102        getWindow().setFlags(
103                WindowManager.LayoutParams.FLAG_FULLSCREEN,
104                WindowManager.LayoutParams.FLAG_FULLSCREEN);
105        setContentView(R.layout.activity_splash);
106        mMoto=(TextView) findViewById(R.id.splash_moto);
107        mMoto.setText(R.string.splash_moto_txt);
108        if (mSession.IsReqNewSession()){
109            mFamilyEntered=mSession.getUser().getFamily();
110            mMemberEntered=mSession.getUser().getName();
111            mPwdEntered="";
112        } else {
113            mFamilyEntered=getString(R.string.splash_edit_family_hint)
114        };
115        mMemberEntered=getString(R.string.splash_edit_member_hint)
116        );
117        mPwdEntered=getString(R.string.splash_edit_pwd_hint);
118        }
119        mProgressBar=(ProgressBar) findViewById(R.id.splash_progBar);
120        mProgressBar.setProgress(0);
121        mEnterMessage=(TextView) findViewById(R.id.
122        splash_edit_message);
123        mEnterMessage.setText("");
124        mEnterFamilyLbl=(TextView) findViewById(R.id.
125        splash_edit_family_lbl);
126        mEnterFamily=(EditText) findViewById(R.id.splash_edit_family)
127        ;
128        mEnterMemberLbl=(TextView) findViewById(R.id.
129        splash_edit_member_lbl);
130        mEnterMember=(EditText) findViewById(R.id.splash_edit_member)
131        ;
132        mEnterPwdLbl=(TextView) findViewById(R.id.splash_edit_pwd_lbl)
133        );
134        mEnterPwd=(EditText) findViewById(R.id.splash_edit_pwd);
135        mNewSession=(Button) findViewById(R.id.splash_button_session)
136        ;
137        mNewMember=(Button) findViewById(R.id.splash_button_member);
138        mNewFamily=(Button) findViewById(R.id.splash_button_family);
139        updateTop();
140        mNetAnim=(ImageView) findViewById(R.id.net_anim);
141        mNetAnim.setBackgroundResource(R.drawable.network_animation);
142        mNetAnim.setVisibility(View.INVISIBLE);
143        frameNetAnim = (AnimationDrawable) mNetAnim.getBackground();
144        updateDisplayOnAsync(false);

145        mEnterFamily.addTextChangedListener(new TextWatcher() {
146            @Override
147            public void beforeTextChanged(CharSequence s, int start,
148                int count, int after) {}
149

```

```

142         @Override
143             public void onTextChanged(CharSequence s, int start, int
144             before, int count) {
145                 String z=s.toString();
146                 mFamilyEntered=z;
147                 Integer d= getColorOnCondition(z,NEW_FAMILY);
148                 mEnterFamily.setBackgroundColor(ContextCompat.
149                     getColor(getApplicationContext(), d));
150                     buttonEnabled((d==R.color.bg_enter_val));
151     }
152
153     @Override
154         public void afterTextChanged(Editable s) {}
155     });
156     mEnterMember.addTextChangedListener(new TextWatcher() {
157         @Override
158             public void beforeTextChanged(CharSequence s, int start,
159             int count, int after) {}
160
161         @Override
162             public void onTextChanged(CharSequence s, int start, int
163             before, int count) {
164                 String z=s.toString();
165                 mMemberEntered=z;
166                 Integer d= getColorOnCondition(z,NEW_MEMBER);
167                 mEnterMember.setBackgroundColor(ContextCompat.
168                     getColor(getApplicationContext(), d));
169                     buttonEnabled((d==R.color.bg_enter_val));
170     }
171
172     @Override
173         public void afterTextChanged(Editable s) {}
174     });
175     mEnterPwd.addTextChangedListener(new TextWatcher() {
176         @Override
177             public void beforeTextChanged(CharSequence s, int start,
178             int count, int after) {}
179
180         @Override
181             public void onTextChanged(CharSequence s, int start, int
182             before, int count) {
183                 String z=s.toString();
184                 mPwdEntered=z;
185                 Integer d= getColorOnCondition(z,NEW_PWD);
186                 mEnterPwd.setBackgroundColor(ContextCompat.getColor(
187                     getApplicationContext(), d));
188                     buttonEnabled((d==R.color.bg_enter_val));
189     }
190
191     @Override
192         public void afterTextChanged(Editable s) {}
193     });
194     mNewSession.setOnClickListener(new View.OnClickListener() {
195         @Override
196             public void onClick(View v) {
197                 Intent intent = new Intent(getApplicationContext(),
198                     SplashActivity.this);
199                 startActivity(intent);
200             }
201     });
202 }

```

```

188         public void onClick(View v) {
189             if(testConnectStatus()){
190                 mState=NEW_SESSION;
191                 updateDisplayOnAsync(true);
192                 goAsyncTasks();
193             }
194             t.testGo();
195         }
196     });
197     mNewMember.setOnClickListener(new View.OnClickListener() {
198         @Override
199         public void onClick(View v) {
200             if(testConnectStatus()){
201                 mState=NEW_MEMBER;
202                 updateDisplayOnAsync(true);
203                 goAsyncTasks();
204             }
205             t.testGo();
206         }
207     });
208     mNewFamily.setOnClickListener(new View.OnClickListener() {
209         @Override
210         public void onClick(View v) {
211             if(testConnectStatus()){
212                 mState=NEW_FAMILY;
213                 updateDisplayOnAsync(true);
214                 goAsyncTasks();
215             }
216             t.testGo();
217         }
218     });
219 }
220
221     public void ShowHidePass(View view){
222         if(view.getId()==R.id.show_pass_btn){
223             if(mEnterPwd.getTransformationMethod().equals(
224                 PasswordTransformationMethod.getInstance())){
225                 ((ImageView)(view)).setImageResource(R.drawable.
226                     ic_pwd_no_vis);
227                 mEnterPwd.setTransformationMethod(
228                     HideReturnsTransformationMethod.getInstance());
229             }
230             else{
231                 ((ImageView)(view)).setImageResource(R.drawable.
232                     ic_pwd_vis);
233                 mEnterPwd.setTransformationMethod(
234                     PasswordTransformationMethod.getInstance());
235             }
236         }
237     }
238     private void updateTop(){
239         mEnterFamilyLbl.setText(R.string.splash_edit_family_label);
240         mEnterFamily.setText(mFamilyEntered);

```

```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\SplashActivity.java

237         mEnterMemberLbl.setText(R.string.splash_edit_member_label);
238         mEnterMember.setText(mMemberEntered);
239         mEnterPwdLbl.setText(R.string.splash_edit_pwd_label);
240         mEnterPwd.setText(mPwdEntered);
241         mEnterMessage.setText("");
242         mNewSession.setText(R.string.splash_button_session_txt);
243         mNewMember.setText(R.string.splash_button_member_txt);
244         mNewFamily.setText(R.string.splash_button_family_txt);
245     }
246
247     private void updateDisplayOnAsync(Boolean b) {
248         int indNet, indClick;
249         if (b) {
250             indNet=View.VISIBLE;
251             indClick=View.INVISIBLE;
252             frameNetAnim.start();
253             mProgressBar.setProgress(1);
254         }
255         else {
256             indNet=View.INVISIBLE;
257             indClick=View.VISIBLE;
258             frameNetAnim.stop();
259             mProgressBar.setProgress(0);
260         }
261         mNetAnim.setVisibility(indNet);
262         mProgressBar.setVisibility(indNet);
263         mNewFamily.setVisibility(indClick);
264         mNewMember.setVisibility(indClick);
265         mNewSession.setVisibility(indClick);
266     }
267
268     private Boolean IsLenOK(String s, int min, int max) {
269         int l=s.length();
270         return ((l>min)&&(l<max));
271     }
272
273     private Integer getColorOnCondition(String z, Integer state){
274         state=state-1;
275         int retDraw =0;
276         int TRUE=R.color.bg_enter_val;
277         int FALSE=R.color.light_red;
278         retDraw=((Pattern.matches(REGEX[state], z)&&(IsLenOK(z,MINMAX[state][0],MINMAX[state][1])))?
279                     TRUE : FALSE);
280         Integer err_mess[]={R.string.enter_err_family,R.string.
281         enter_err_member,R.string.enter_err_pwd};
282         if (retDraw==FALSE){
283             mEnterMessage.setText(getResources().getString(err_mess[state],
284             MINMAX[state][0],MINMAX[state][1]));
285         }
286
287     private Boolean testConnectStatus(){

```

```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\SplashActivity.java

288         mEnterFamily.setBackgroundColor(ContextCompat.getColor(
289            (getApplicationContext(), R.color.bg_enter_val));
290         mEnterMember.setBackgroundColor(ContextCompat.getColor(
291            (getApplicationContext(), R.color.bg_enter_val));
292         mEnterPwd.setBackgroundColor(ContextCompat.getColor(
293            (getApplicationContext(), R.color.bg_enter_val));
294         Boolean ret=true;
295         String message="";
296         if(!mSession.isConnected()) {
297             ret=false;
298             message += getResources().getString(R.string.
299             network_err_no_connection)+"\n";
300         }
301         mEnterMessage.setText(message);
302         return ret;
303     }
304
305     private void buttonEnabled(Boolean b) {
306         mNewSession.setEnabled(b);
307         mNewMember.setEnabled(b);
308         mNewFamily.setEnabled(b);
309     }
310
311     /**
312      *                                     ASYNC
313      */
314
315     private void goAsyncTasks() {
316
317         class GoAsyncTasks extends AsyncTask<Void, Void, Boolean> {
318
319             @Override
320             protected void onPreExecute() {
321                 super.onPreExecute();
322             }
323
324             @Override
325             protected void onPostExecute(Boolean b) {
326                 super.onPostExecute(b);
327                 updateDisplayOnAsync(false);
328                 if (b) {
329                     mSession.setStoredUser(mUser);
330                     Intent intent=new Intent(getApplicationContext(),
331                     RecipeListActivity.class);
332                     startActivity(intent);
333                 }
334             }
335         }
336     }

```

```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\SplashActivity.java

332         @Override
333         protected Boolean doInBackground(Void... voids) {
334             CookBook cb=CookBook.get(getApplicationContext());
335             String s=getFamilyComp();
336             mProgressBar.setProgress(2);
337             if (s==null){
338                 mEnterMessage.setText(R.string.enter_err_com);
339                 return false; } else {
340                 memberFamily=parseJsonFamily(s); }
341             mProgressBar.setProgress(5);
342             Integer cas=goFamilyGet();
343             if (cas==0) { return false; }
344             if ((cas==NEW_FAMILY)|| (cas==NEW_MEMBER)) {
345                 if (createMember(cas)){
346                     mProgressBar.setProgress(10);
347                     mEnterMessage.setText(getString(R.string.
348                         enter_noerr_new_member));
349                     mEnterMessage.setText(getString(R.string.
350                         enter_err_new_member));
351                     return false; }
352                     cb.clearCookBook();
353                     s=downloadCB();
354                     if (s==null){
355                         Log.d(TAG, "download cookbook failed");
356                         return false;
357                     }
358                     mProgressBar.setProgress(50);
359                     mRecipes=parseJsonCB(s);
360                     if (!downloadNotesAndParse()){
361                         Log.d(TAG, "Failure in reading and parsing Notes"
362 );
363                         return false;
364                     }
365                     mProgressBar.setProgress(70);
366                     if (!downloadCommentsAndParse()){
367                         Log.d(TAG, "Failure in reading and parsing
Comments");
368                         return false;
369                     }
370                     mProgressBar.setProgress(70);
371                     cb.fillCookBook(mRecipes);
372                     mEnterMessage.setText("Number of recipes : "+mRecipes
.size());
373                     mProgressBar.setProgress(90);
374                     return true;
375                 }
376                 GoAsyncTasks getAsync = new GoAsyncTasks();
377                 getAsync.execute();
378             }
379
380         private String getFamilyComp(){

```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\SplashActivity.java

```
381         HashMap<String, String> data = new HashMap<>();
382         data.put("family", mFamilyEntered.trim());
383         String result = mNetUtils.sendPostRequestJson(mSession.
384             getURLPath() + PHPREQFAMILYCOMP, data);
385         return result;
386     }
387
388     private Boolean createMember(int flag) {
389         String link=mSession.getURLPath();
390         if (flag==NEW_MEMBER) {
391             link=link+PHPREQNEWMEMBER;
392         } else {
393             if (flag==NEW_FAMILY) {
394                 link=link+PHPREQNEWFAMILY;
395             } else {
396                 Log.d(TAG, "Function createmember flag bad value");
397                 return false;
398             }
399         }
400         HashMap<String, String> data = new HashMap<>();
401         data.put("family", mFamilyEntered.trim());
402         data.put("pwd", mPwdEntered.trim());
403         data.put("name", mMemberEntered.trim());
404         mUser=new User(mFamilyEntered.trim(),mMemberEntered.trim());
405         data.put("iduser", mUser.getId().toString().trim());
406         String result = mNetUtils.sendPostRequestJson(link, data);
407         if (result.trim().equals("1")) {
408             Log.d(TAG, "Function createmember succeed");
409             return true;
410         } else {
411             Log.d(TAG, "Function createmember failed");
412             return false;
413         }
414     }
415
416     private String downloadCB() {
417         HashMap<String, String> data = new HashMap<>();
418         data.put("iduser", mUser.getId().toString().trim());
419         data.put("pwd", mPwdEntered.trim());
420         String result = mNetUtils.sendPostRequestJson(mSession.
421             getURLPath() + PHPREQGETCB, data);
422         return result;
423     }
424
425     private Boolean downloadNotesAndParse() {
426         HashMap<String, String> data = new HashMap<>();
427         data.put("iduser", mUser.getId().toString().trim());
428         String json = mNetUtils.sendPostRequestJson(mSession.
429             getURLPath() + PHPREQGETNOTES, data);
430         //User u;
431         //String s;
432         UUID uuid;
433         //Date date;
434         Note n;
```

```

432         try {
433             JSONArray jarr1=new JSONArray(json);
434             for (int i=0; i<jarr1.length(); i++) {
435                 JSONObject obj = jarr1.getJSONObject(i);
436                 uuid=UUID.fromString(obj.getString("id_recipe"));
437                 n=mNetUtils.parseObjectNote(obj);
438                 for(Recipe r:mRecipes){
439                     if (r.getId().equals(uuid)){
440                         r.addNote(n);
441                         break;
442                     }
443                 }
444             }
445         } catch (Exception e){
446             Log.d(TAG, "Failure in parsing JSON Notes "+e);
447             return false;
448         }
449         return true;
450     }
451
452     private Boolean downloadCommentsAndParse(){
453         HashMap<String, String> data = new HashMap<>();
454         data.put("iduser", mUser.getId().toString().trim());
455         String json = mNetUtils.sendPostRequestJson(mSession.
456             getURLPath()+PHPREQGETCOMMENTS,data);
457         UUID uuid;
458         Comment c;
459         try {
460             JSONArray jarr1=new JSONArray(json);
461             for (int i=0; i<jarr1.length(); i++) {
462                 JSONObject obj = jarr1.getJSONObject(i);
463                 c=mNetUtils.parseObjectComment(obj);
464                 uuid=UUID.fromString(obj.getString("id_recipe"));
465                 if (c!=null) {
466                     for(Recipe r:mRecipes){
467                         if (r.getId().equals(uuid)){
468                             r.addComment(c);
469                             break;
470                         }
471                     }
472                 }
473             }
474         } catch (Exception e){
475             Log.d(TAG, "Failure in parsing JSON Array Comments "+e);
476             return false;
477         }
478         return true;
479     }
480
481     public ArrayList<User> parseJsonFamily(String json) {
482         ArrayList<User> ret=new ArrayList<>();
483         User u;
484         String name,dateString;
485         UUID uuid;

```

```

485         Date date;
486         mPwdRead="";
487         try {
488             JSONArray jarr1=new JSONArray(json);
489             for (int i=0; i<jarr1.length(); i++) {
490                 JSONObject obj = jarr1.getJSONObject(i);
491                 name=obj.getString("name");
492                 uuid=UUID.fromString(obj.getString("id_user"));
493                 u=new User(mFamilyEntered, name );
494                 u.setId(uuid);
495                 dateString=obj.getString("last_sync");
496                 date=new SimpleDateFormat(MYSQLDATEFORMAT).parse(
497                     dateString);
498                 u.setDate(date);
499                 ret.add(u);
500                 mPwdRead=obj.getString("pass");
501             }
502         catch (Exception e){
503             Log.d(TAG, "Failure in parsing JSON FamilyGet" +e);
504         }
505         return ret;
506     }
507     public ArrayList<Recipe> parseJsonCB(String json){
508         ArrayList<Recipe> result=new ArrayList<>();
509         Recipe r;
510         try {
511             JSONArray jarr1 = new JSONArray(json);
512             for (int j = 0; j < jarr1.length(); j++) {
513                 JSONObject obj = jarr1.getJSONObject(j);
514                 r = new Recipe(UUID.fromString(obj.getString("id_recipe")));
515                 if (mNetUtils.parseObjectRecipe(r,obj, true, true))
516                     result.add(r);
517             }
518         } catch (Exception e) {
519             Log.d(TAG, " Error parsing CB" + e);
520         }
521         return result;
522     }
523     private Integer goFamilyGet(){
524         switch(mState){
525             case NEW_SESSION :
526                 if (memberFamily.size()==0) {
527                     mEnterMessage.setText(R.string.
528                         enter_err_member_wo_family);
529                     mEnterFamily.setBackgroundColor(ContextCompat.
530                         getColor(getApplicationContext(), R.color.light_red));
531                 }
532             else {
533                     mEnterMessage.setText(R.string.
534                         enter_noerr_fam_found);
535                     User u= new User("", "");
536                     for(User user:memberFamily) {

```

```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\SplashActivity.java
533                     if (user.getName().equals(mMemberEntered)) {u=
    user; }
534                 }
535                 if (u.getName().equals("")) {
536                     mEnterMessage.setText(R.string.
    enter_err_member_in_family);
537                     mEnterMember.setBackgroundColor(ContextCompat
    .getColor(getApplicationContext(), R.color.light_red));
538                 } else {
539                     if (!mPwdRead.equals(mPwdEntered.trim())) {
540                         mEnterMessage.setText(R.string.
    enter_err_wrong_pass);
541                         mEnterPwd.setBackgroundColor(
    ContextCompat.getColor(getApplicationContext(), R.color.light_red));
542                     } else {
543                         mUser=u;
544                         mEnterMessage.setText(getString(R.string.
    enter_noerr_new_session, u.getName()));
545                         return NEW_SESSION; }
546                     }
547                 }
548             break;
549         }
550         case NEW_FAMILY : {
551             if (memberFamily.size()==0) {
552                 mEnterMessage.setText(R.string.
    enter_noerr_welcome);
553                 return NEW_FAMILY;
554             }
555             else {
556                 mEnterMessage.setText(R.string.
    enter_err_family_already);
557                 mEnterFamily.setBackgroundColor(ContextCompat.
    getColor(getApplicationContext(), R.color.light_red));
558             }
559             break;
560         }
561         case NEW_MEMBER : {
562             if (memberFamily.size()==0) {
563                 mEnterMessage.setText(R.string.
    enter_err_member_wo_family);
564                 mEnterFamily.setBackgroundColor(ContextCompat.
    getColor(getApplicationContext(), R.color.light_red));
565             }
566             else {
567                 // family found
568                 User u= new User("", "");
569                 for(User user:memberFamily) {
570                     if (user.getName().equals(mMemberEntered)) {u=
    user; }
571                 }
572                 if (u.getName().equals("")) {
573                     if (!mPwdRead.equals(mPwdEntered.trim())) {
574                         mEnterMessage.setText(R.string.

```

```
File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\SplashActivity.java
574     enter_err_wrong_pass);
575             mEnterPwd.setBackgroundColor(
576                 ContextCompat.getColor(getApplicationContext(), R.color.light_red));
577             } else {
578                 mEnterMessage.setText(R.string.
579                     enter_noerr_new_member);
580                     return NEW_MEMBER;
581                 } else {
582                     mEnterMessage.setText(R.string.
583                     enter_err_member_notin_family);
584                     mEnterMember.setBackgroundColor(ContextCompat
585                         .getColor(getApplicationContext(), R.color.light_red));
586                     }
587                     break;
588                 }
589             }
590             return 0;
591         }
592     }
593 }
```

```
1 package com.example.cookbook;
2
3 import android.content.Context;
4 import android.os.AsyncTask;
5 import android.util.Log;
6
7 import java.io.InputStream;
8 import java.net.HttpURLConnection;
9 import java.net.URL;
10 // ****
11 *
12 // to use :
13 //      TestConnection t;
14 //      t = new TestConnection();
15 //      t.setTestConnexion(getApplicationContext());
16 //      t.testGo(); start async => result in Boolean mSession.
17 // IsConnected()
18 // ****
19
20
21
22
23     public void TestConnection() {
24         //
25     }
26     public void setTestConnexion(Context context) {
27         mSession = SessionInfo.get(context);
28     }
29
30     public void testGo(){
31
32         class testCon extends AsyncTask<Void, Void, Boolean> {
33
34             @Override
35             protected Boolean doInBackground(Void... voids) {
36                 try {
37                     URL url = new URL(mSession.getURLPath()+PHP204);
38                     HttpURLConnection conn = (HttpURLConnection) url.
39                     openConnection();
40                     conn.setConnectTimeout(mSession.getConnectTimeout(
41 )) ;
42                     conn.setReadTimeout(mSession.getReadTimeout());
43                     conn.setRequestMethod("HEAD");
44                     InputStream in = conn.getInputStream();
45                     int status = conn.getResponseCode();
46                     in.close();
47                     conn.disconnect();
48                     if (status == HttpURLConnection.HTTP_NO_CONTENT) {
49                         //Log.d(TAG, "Test 204 : true ");
50                         return true;
51                     } else {return false;}
52                 } catch (Exception e) {return false;}
53             }
54         }
55     }
56 }
```

```
51         }
52
53     @Override
54     protected void onPostExecute(Boolean s) {
55         super.onPostExecute(s);
56         mSession.setConnection(s);
57     }
58 }
59
60     testCon test = new testCon();
61     test.execute();
62 }
63 }
64 }
```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\RecipeBaseHelper.java

```
1 package com.example.cookbook;
2
3 import android.content.Context;
4 import android.database.sqlite.SQLiteDatabase;
5 import android.database.sqlite.SQLiteOpenHelper;
6
7 import com.example.cookbook.RecipeDbSchema.RecipeTable;
8
9 public class RecipeBaseHelper extends SQLiteOpenHelper {
10     private static final int VERSION=1;
11     private static final String DATA_BASE_NAME="recipeBase.db"; // REINIT BASE
12     public RecipeBaseHelper(Context context) {
13         super(context, DATA_BASE_NAME, null, VERSION);
14     }
15
16     @Override
17     public void onCreate(SQLiteDatabase db) {
18         String st="",si="";
19         Recipe r=new Recipe();
20         for(int i=0;i<r.getNbStepMax();i++) {
21             st=st+RecipeTable.Cols.STEP[i];
22             st=st+", ";
23         }
24         for(int i=0;i<r.getNbIngMax();i++) {
25             si=si+RecipeTable.Cols.ING[i];
26             si=si+", ";
27         }
28         db.execSQL("create table "+ RecipeTable.NAME+" ("+
29                 " _id integer primary key autoincrement, "+
30                 RecipeTable.Cols.UID+", "+
31                 RecipeTable.Cols.OWNER+", "+
32                 RecipeTable.Cols.TITLE+", "+
33                 RecipeTable.Cols.SOURCE+", "+
34                 RecipeTable.Cols.SOURCE_URL+", "+
35                 RecipeTable.Cols.DATE+", "+
36                 RecipeTable.Cols.DATE_PHOTO+", "+
37                 RecipeTable.Cols.NBPERS+", "+
38                 st +
39                 si +
40                 RecipeTable.Cols.SEASON+", "+
41                 RecipeTable.Cols.DIFFICULTY+", "+
42                 RecipeTable.Cols.COMMENTS+", "+
43                 RecipeTable.Cols.STATUS+", "+
44                 RecipeTable.Cols.NOTES+", "+
45                 RecipeTable.Cols.MESSAGE+", "+
46                 RecipeTable.Cols.MESSAGE_FROM+", "+
47                 RecipeTable.Cols.TS_RECIPE+", "+
48                 RecipeTable.Cols.TS_PHOTO+", "+
49                 RecipeTable.Cols.TS_COMMENT+", "+
50                 RecipeTable.Cols.TS_NOTE+
51                 ") ";
52     }
53 }
```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\RecipeBaseHelper.java

```
54      }
55
56      @Override
57      public void onUpgrade(SQLiteDatabase db, int oldVersion, int
newVersion) {
58
59      }
60 }
61
```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\RecipeDifficulty.java

```
1 package com.example.cookbook;
2
3 public enum RecipeDifficulty {
4     QUICK, EASY, ELABORATE, SOPHISTICATED, UNDEFINED;
5     private static RecipeDifficulty[] list=RecipeDifficulty.values();
6
7     public static RecipeDifficulty getDifficulty(int i){
8         return list[i];
9     }
10
11    public static int getIndex(RecipeDifficulty r){
12        for(int i=0;i<list.length;i++) {
13            if (list[i].equals(r)){ return i;}
14        }
15        return 0;
16    }
17 }
18 }
```

```
1 package com.example.cookbook;
2
3 import android.app.Activity;
4 import android.app.AlertDialog;
5 import android.app.Dialog;
6 import android.content.DialogInterface;
7 import android.content.Intent;
8 import android.os.Bundle;
9 import android.support.v4.app.DialogFragment;
10 import android.util.Log;
11 import android.view.LayoutInflater;
12 import android.view.View;
13 import android.widget.Button;
14 import android.widget.RatingBar;
15
16 import java.util.List;
17 import java.util.UUID;
18
19 public class RatePickerFragment extends DialogFragment {
20     public static final String EXTRA_RATE = "com.example.cookbook.rate";
21     private static final String ARG_ID= "recipeId";
22     private static final String TAG = "DebugRatePickerFragment";
23     private int mRate;
24     private UUID mUUID;
25     public static RatePickerFragment newInstance(UUID uuid) {
26         Bundle args = new Bundle();
27         args.putSerializable(ARG_ID, uuid);
28         RatePickerFragment fragment = new RatePickerFragment();
29         fragment.setArguments(args);
30         return fragment;
31     }
32
33     @Override
34     public Dialog onCreateDialog(Bundle savedInstanceState) {
35         mUUID = (UUID) getArguments().getSerializable(ARG_ID);
36         View v= LayoutInflater.from(getActivity())
37             .inflate(R.layout.rank_dialog, null);
38         RatingBar ratingBar = (RatingBar)v.findViewById(R.id.
dialog_ratingbar);
39         ratingBar.setRating(4);
40         AlertDialog.Builder dialog= new AlertDialog.Builder(
getActivity())
41             .setView(v)
42             .setTitle(R.string.dialog_star_title)
43             .setPositiveButton(android.R.string.ok,
44                 new DialogInterface.OnClickListener() {
45                     @Override
46                     public void onClick(DialogInterface dialog
, int which) {
47                         mRate=(int) ratingBar.getRating();
48                         addNotetoRecipe();
49                         sendResult(Activity.RESULT_OK, mRate);
50                     }
51                 }
52             )
53             .setNegativeButton(android.R.string.cancel,
54                 new DialogInterface.OnClickListener() {
55                     @Override
56                     public void onClick(DialogInterface dialog
, int which) {
57                         dismiss();
58                     }
59                 }
60             );
61         return dialog.create();
62     }
63 }
```

```
51             });
52         dialog.setNegativeButton("Cancel",
53             new DialogInterface.OnClickListener() {
54
55                 @Override
56                 public void onClick(DialogInterface dialog, int
57                     which) {
58
59                     return ;
60                 }
61             });
62         AlertDialog dia=dialog.show();
63         Button b=dia.getButton(DialogInterface.BUTTON_POSITIVE);
64         if (b != null) {
65             b.setTextColor(getResources().getColor(R.color.fg_icon));
66         }
67         return dia;
68     }
69
70     private void sendResult(int resultCode, int rate) {
71         if (getTargetFragment() == null) {
72             return;
73         }
74         // renvoie le new rating (cela ne sera à rien, juste pour
75         essaye);
76         Intent intent = new Intent();
77         intent.putExtra(EXTRA_RATE, rate);
78         getTargetFragment()
79             .onActivityResult(getTargetRequestCode(), resultCode,
80             intent);
81     }
82     private void addNotetoRecipe(){
83         SessionInfo loSession= SessionInfo.get(getActivity());
84         CookBook locookbook=CookBook.get(getActivity());
85         Recipe r=locookbook.getRecipe(mUUID);
86         User lu=loSession.getUser();
87         r.addNote(new Note(mRate, lu));
88         r.updateTS(AsynCallFlag.NEWRATING, true);
89         locookbook.updateRecipe(r);
90     }
91 }
```

```
1 package com.example.cookbook;
2
3 import android.app.Activity;
4 import android.content.Intent;
5 import android.content.pm.PackageManager;
6 import android.content.pm.ResolveInfo;
7 import android.graphics.Bitmap;
8 import android.net.Uri;
9 import android.os.Bundle;
10 import android.provider.MediaStore;
11 import android.support.v4.app.Fragment;
12 import android.support.v4.content.FileProvider;
13 import android.text.Editable;
14 import android.text.TextWatcher;
15 import android.text.format.DateFormat;
16 import android.util.Log;
17 import android.view.LayoutInflater;
18 import android.view.Menu;
19 import android.view.MenuInflater;
20 import android.view.MenuItem;
21 import android.view.View;
22 import android.view.ViewGroup;
23 import android.widget.AdapterView;
24 import android.widget.ArrayAdapter;
25 import android.widget.EditText;
26 import android.widget.ImageButton;
27 import android.widget.ImageView;
28 import android.widget ScrollView;
29 import android.widget.Spinner;
30 import android.widget.TextView;
31
32 import java.io.ByteArrayOutputStream;
33 import java.io.File;
34 import java.io.FileOutputStream;
35 import java.io.IOException;
36 import java.net.MalformedURLException;
37 import java.net.URL;
38 import java.util.Date;
39 import java.util.List;
40 import java.util.UUID;
41
42 public class RecipeEditFragment extends Fragment {
43     // Constantes
44     private static final String ARG_RECIPE_ID="recipe_id";
45     private static final String DIALOG_DATE="DialogDate";
46     private static final int REQUEST_DATE=0;
47     private static final int REQUEST_PHOTO= 2;
48     private static final String TAG = "CB_RecipeEditFragment";
49     // Variables internes
50     private Recipe mRecipe;
51     private Recipe mRecipeInit;
52     private File mPhotoFile;
53     private EditText mTitleField;
54     private EditText mSourceField;
```

```

55     private EditText mSourceUrl;
56     private EditText mNbPersField;
57     //    private Button mDateButton;
58     private TextView[] mSTextView;
59     private EditText mNewStepField;
60     private ImageButton mNewStepEnter;
61     private ImageButton mNewStepBack;
62     private int mStepNb;
63     private TextView[] mSTextIngView;
64     private EditText mNewIngField;
65     private ImageButton mNewIngEnter;
66     private ImageButton mNewIngBack;
67     private int mIngNb;
68     private Spinner mSeasonSpinner;
69     private Spinner mDifficultySpinner;
70     private ScrollView mScroll;
71     private ImageView mPhotoView;
72
73     public static RecipeEditFragment newInstance(UUID recipeId) {
74         Bundle args=new Bundle();
75         args.putSerializable(ARG_RECIPE_ID, recipeId);
76         RecipeEditFragment fragment=new RecipeEditFragment();
77         fragment.setArguments(args);
78         return fragment;
79     }
80
81     @Override
82     public void onCreate(Bundle savedInstanceState){
83         super.onCreate(savedInstanceState);
84         mRecipe=new Recipe();
85         mRecipeInit=new Recipe();
86         UUID recipeId=(UUID) getArguments().getSerializable(
87             ARG_RECIPE_ID);
88         mRecipe=CookBook.get(getActivity()).getRecipe(recipeId);
89         mRecipeInit=CookBook.get(getActivity()).getRecipe(recipeId);
90         setHasOptionsMenu(true);
91         mPhotoFile=CookBook.get(getActivity()).getPhotoFile(mRecipe);
92         mStepNb=mRecipe.getNbStep();
93         mIngNb=mRecipe.getNbIng();
94     }
95     @Override
96     public void onPause(){
97         super.onPause();
98         mRecipe.updateTS(AsynCallFlag.NEWRECIPE, !mRecipe.
99         hasNotChangedSince(mRecipeInit));
100        CookBook.get(getActivity()).updateRecipe(mRecipe);
101    }
102    @Override
103    public void onCreateOptionsMenu(Menu menu, MenuInflater inflater)
104    {
105        super.onCreateOptionsMenu(menu, inflater);
106        inflater.inflate(R.menu.fragment_recipe, menu);

```

```

106      }
107
108     @Override
109     public boolean onOptionsItemSelected(MenuItem item) {
110         switch (item.getItemId()) {
111             case R.id.recipe_menu_report:
112                 Intent i=new Intent(Intent.ACTION_SEND);
113                 i.setType("text/plain");
114                 i.putExtra(Intent.EXTRA_TEXT, getRecipeReport());
115                 i.putExtra(Intent.EXTRA_SUBJECT, getString(R.string.
116                     recipe_report_subject));
117                 startActivity(i);
118                 return true;
119             case R.id.recipe_menu_delete:
120                 CookBook.get(getActivity()).markRecipeToDelete(
121                     mRecipe);
122                 getActivity().onBackPressed();
123             default:
124                 return super.onOptionsItemSelected(item);
125         }
126     }
127
128     @Override
129     public View onCreateView(LayoutInflater inflater, ViewGroup
130     container, Bundle savedInstanceState){
131         final View v=inflater.inflate(R.layout.fragment_recipe_edit,
132         container, false);
133         mScroll=(ScrollView) v.findViewById(R.id.
134         fragment_recipe_scroll);
135         PackageManager packageManager=getActivity().getPackageManager
136         ();
137         final Intent captureImage=new Intent(MediaStore.
138         ACTION_IMAGE_CAPTURE);
139         boolean canTakePhoto=(mPhotoFile != null) &&
140             (captureImage.resolveActivity(packageManager)!=
141             null);
142         mPhotoView=(ImageView) v.findViewById(R.id.recipe_photo);
143         mPhotoView.setOnClickListener(new View.OnClickListener() {
144             @Override
145             public void onClick(View v) {
146                 Uri uri= FileProvider.getUriForFile(getActivity(),
147                     "com.example.cookbook.fileprovider",
148                     mPhotoFile);
149                 captureImage.putExtra(MediaStore.EXTRA_OUTPUT, uri);
150                 List<ResolveInfo> cameraActivities=getActivity()
151                     .getPackageManager().queryIntentActivities(
152                     captureImage,
153                         PackageManager.MATCH_DEFAULT_ONLY);
154                 for(ResolveInfo activity : cameraActivities){
155                     getActivity().grantUriPermission(activity.
156                     activityInfo.packageName,
157                         uri, Intent.
158                         FLAG_GRANT_WRITE_URI_PERMISSION);
159                 }
160             }
161         }
162     }

```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\RecipeEditFragment.java

```
148         startActivityForResult(captureImage, REQUEST_PHOTO);
149     }
150 }
151 updatePhotoView();
152 mTitleField= (EditText) v.findViewById(R.id.recipe_title);
153 mTitleField.setText(mRecipe.getTitle());
154 mTitleField.addTextChangedListener(new TextWatcher() {
155     @Override
156     public void beforeTextChanged(CharSequence s, int start,
157         int count, int after) {
158         // blank
159     }
160     @Override
161     public void onTextChanged(CharSequence s, int start, int
162         before, int count) {
163         mRecipe.setTitle(s.toString());
164     }
165     @Override
166     public void afterTextChanged(Editable s) {
167         //blank
168     }
169 });
170
171 mSourceField= (EditText) v.findViewById(R.id.recipe_source);
172 mSourceField.setText(mRecipe.getSource());
173 mSourceField.addTextChangedListener(new TextWatcher() {
174     @Override
175     public void beforeTextChanged(CharSequence s, int start,
176         int count, int after) {
177         // blank
178     }
179     @Override
180     public void onTextChanged(CharSequence s, int start, int
181         before, int count) {
182         mRecipe.setSource(s.toString());
183     }
184     @Override
185     public void afterTextChanged(Editable s) {
186
187     }
188 });
189
190 mSourceUrl=(EditText) v.findViewById(R.id.recipe_source_url);
191 mSourceUrl.setText(mRecipe.getSource_url().toString());
192 mSourceUrl.addTextChangedListener(new TextWatcher() {
193     @Override
194     public void beforeTextChanged(CharSequence s, int start,
195         int count, int after) {
196     }
```

```
197
198         @Override
199         public void onTextChanged(CharSequence s, int start, int
200             before, int count) {
201             if (s.toString().equals("")) {} else {
202                 try {
203                     URL url=new URL(s.toString());
204                     mRecipe.setSource_url(url);
205                 } catch (MalformedURLException e) {
206                     Log.d(TAG, "onTextChanged de mSource_url >" +
207                         s.toString()+"< Failed >"+ e);
208                 }
209             }
210         @Override
211         public void afterTextChanged(Editable s) {
212
213     }
214 });
215
216     mNbPersField= (EditText) v.findViewById(R.id.recipe_nbper);
217     mNbPersField.setText(mRecipe.getNbPers()+"");
218     mNbPersField.addTextChangedListener(new TextWatcher() {
219
220         @Override
221         public void beforeTextChanged(CharSequence s, int start,
222             int count, int after) {
223
224         @Override
225         public void onTextChanged(CharSequence s, int start, int
226             before, int count) {
227             if (s.toString().equals("")) {} else {
228                 int nb_entered = Integer.parseInt(s.toString());
229                 if ((nb_entered > 0) && (nb_entered < 13)) {
230                     mRecipe.setNbPers(nb_entered);
231                 }
232             }
233         @Override
234         public void afterTextChanged(Editable s) {
235
236     }
237 });
238 });
239
240
241
242     mSeasonSpinner= (Spinner) v.findViewById(R.id.recipe_season);
243     ArrayAdapter<CharSequence> adapterSeason = ArrayAdapter.
244         createFromResource(getContext(),
245             R.array.recipe_season_array, android.R.layout.
246             simple_spinner_item);
```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\RecipeEditFragment.java

```
245         mSeasonSpinner.setAdapter(adapterSeason);
246         mSeasonSpinner.setSelection(RecipeSeason.getIndex(mRecipe.
247             getSeason()));
247         mSeasonSpinner.setOnItemSelectedListener(new AdapterView.
248             OnItemSelectedListener() {
249                 @Override
250                 public void onItemSelected(AdapterView<?> parent, View
251                     view, int position, long id) {
250                     mRecipe.setSeason(RecipeSeason.getSeason(position));
251                 }
252
253                 @Override
254                 public void onNothingSelected(AdapterView<?> parent) {
255
256                 }
257             });
258
259         mDifficultySpinner= (Spinner) v.findViewById(R.id.
260             recipe_difficulty);
260         ArrayAdapter<CharSequence> adapterDifficulty = ArrayAdapter.
261             createFromResource(getContext(),
261                 R.array.recipe_difficulty_array, android.R.layout.
262                 simple_spinner_item);
262         mDifficultySpinner.setAdapter(adapterDifficulty);
263         mDifficultySpinner.setSelection(RecipeDifficulty.getIndex(
263             mRecipe.getDifficulty()));
264         mDifficultySpinner.setOnItemSelectedListener(new AdapterView.
265             OnItemSelectedListener() {
265                 @Override
266                 public void onItemSelected(AdapterView<?> parent, View
266                     view, int position, long id) {
267                     mRecipe.setDifficulty(RecipeDifficulty.getDifficulty(
267                         position));
268                 }
269
270                 @Override
271                 public void onNothingSelected(AdapterView<?> parent) {
272
273                 }
274             });
275
276         final int[] rID= {R.id.recipe_S1,R.id.recipe_S2,R.id.
276             recipe_S3,R.id.recipe_S4,
277                 R.id.recipe_S5,R.id.recipe_S6,R.id.recipe_S7,R.id.
277             recipe_S8,R.id.recipe_S9};
278         mSTextView= new TextView[mRecipe.getNbStepMax()];
279         for(int i=0;i<mRecipe.getNbStepMax();i++) {
280             mSTextView[i] = (TextView) v.findViewById(rID[i]);
281         }
282         mNewStepEnter=(ImageButton) v.findViewById(R.id.
282             recipe_step_enter);
283         mNewStepBack=(ImageButton) v.findViewById(R.id.
283             recipe_step_back);
284         updateListStep(v);
```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\RecipeEditFragment.java

```
285
286     mNewStepField= (EditText) v.findViewById(R.id.recipe_new_step
287 ) ;
287     mNewStepField.addTextChangedListener(new TextWatcher() {
288         @Override
289         public void beforeTextChanged(CharSequence s, int start,
290             int count, int after) {
290             // blank
291         }
292
293         @Override
294         public void onTextChanged(CharSequence s, int start, int
294 before, int count) {
295             mRecipe.setStep(mStepNb+1, s.toString());
296         }
297         @Override
298         public void afterTextChanged(Editable s) {
299
300         }
301     });
302
303     mNewStepEnter.setOnClickListener(new View.OnClickListener() {
304         @Override
305         public void onClick(View v) {
306 //             Toast.makeText(getApplicationContext(), mRecipe.getStep(
306 mStepNb+1)+"/"+mStepNb,
307 //                     Toast.LENGTH_SHORT).show();
308             mNewStepField.setVisibility(updateListStep(v));
309             mNewStepField.getText().clear();
310         }
311     });
312
313     mNewStepBack.setOnClickListener(new View.OnClickListener() {
314         @Override
315         public void onClick(View v) {
316             mRecipe.setStep(mStepNb, "");
317             mRecipe.setStep(mStepNb+1, "");
318             mNewStepField.setVisibility(updateListStep(v));
319             mNewStepField.getText().clear();
320         }
321     });
322
323     final int[] rIngID= {R.id.recipe_I01,R.id.recipe_I02,R.id.
323 recipe_I03,R.id.recipe_I04,
324             R.id.recipe_I05,R.id.recipe_I06,R.id.recipe_I07,R.id.
325             recipe_I08,
325             R.id.recipe_I09,R.id.recipe_I10,R.id.recipe_I11,R.id.
326             recipe_I12,
326             R.id.recipe_I13,R.id.recipe_I14,R.id.recipe_I15};
327     mSTextIngView= new TextView[mRecipe.getNbIngMax()];
328     for(int i=0;i<mRecipe.getNbIngMax();i++) {
329         mSTextIngView[i] = (TextView) v.findViewById(rIngID[i]);
330     }
331     mNewIngEnter=(ImageButton) v.findViewById(R.id.
```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\RecipeEditFragment.java

```
331     recipe_ingroup_enter);
332         mNewIngBack=(ImageButton) v.findViewById(R.id.recipe_ingroup_back
333     );
333         updateListIng(v);
334
335         mNewIngField= (EditText) v.findViewById(R.id.recipe_new_ingroup);
336         mNewIngField.addTextChangedListener(new TextWatcher() {
337             @Override
338             public void beforeTextChanged(CharSequence s, int start,
339                 int count, int after) {
340
341             }
342             @Override
343             public void onTextChanged(CharSequence s, int start, int
344                 before, int count) {
345                 mRecipe.setIngredient(mIngNb+1, s.toString());
346             }
347             @Override
348             public void afterTextChanged(Editable s) {
349
350             }
351         });
352         mNewIngEnter.setOnClickListener(new View.OnClickListener() {
353             @Override
354             public void onClick(View v) {
355                 mNewIngField.setVisibility(updateListIng(v));
356                 mNewIngField.getText().clear();
357             }
358         });
359         mNewIngBack.setOnClickListener(new View.OnClickListener() {
360             @Override
361             public void onClick(View v) {
362                 mRecipe.setIngredient(mIngNb, "");
363                 mRecipe.setIngredient(mIngNb+1, "");
364                 mNewIngField.setVisibility(updateListIng(v));
365                 mNewIngField.getText().clear();
366             }
367         });
368
369         return v;
370     }
371
372
373     @Override
374     public void onActivityResult(int requestCode, int resultCode,
375         Intent data) {
376         if (resultCode != Activity.RESULT_OK) {
377             return;
378         }
379         if (requestCode==REQUEST_PHOTO) {
380             Uri uri=FileProvider.getUriForFile(getActivity(),
```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\RecipeEditFragment.java

```
381                     "com.example.cookbook.fileprovider", mPhotoFile);
382             getActivity().revokeUriPermission(uri, Intent.
383                 FLAG_GRANT_WRITE_URI_PERMISSION);
383             if (!ResizePhoto(mRecipe)){
384                 // pb
385             }
386             mRecipe.setDatePhoto(new Date());
387             mRecipe.updateTS(AsynCallFlag.NEWPHOTO,true);
388             updatePhotoView();
389         }
390     }
391
392     private String getRecipeReport(){
393         String report="";
394         Integer iplus=0;
395         report =getString(R.string.recipe_report_title, mRecipe.
396             getTitle())+"\n";
396         report +=getString(R.string.recipe_report_owner,mRecipe.
397             getOwner().getNameComplete())+"\n";
398         if(!mRecipe.getSource_url_name().equals("")){
399             report += getString(R.string.recipe_report_url, mRecipe.
400                 getSource_url_name())+"\n";
400         }
401         for(int i=0;i<mRecipe.getNbIng();i++){
402             report += getString(R.string.recipe_report_ing, mRecipe.
403                 getIngredient(i+1))+"\n";
404         for(int i=0;i<mRecipe.getNbStep();i++){
405             iplus=i+1;
406             report += getString(R.string.recipe_report_step, iplus+""
407 ,
408                         mRecipe.getStep(i+1))+"\n";
409         report +=getString(R.string.recipe_report_final);
410         return report;
411     }
412
413     private void updatePhotoView(){
414         if (mPhotoFile==null || !mPhotoFile.exists()){
415             mPhotoView.setImageDrawable(getResources().getDrawable(R.
416                 drawable.ic_recipe_camera));
416         } else {
417             Bitmap bitmap=PictureUtils.getScaledBitmap(mPhotoFile.
418                 getPath(), getActivity());
418             mPhotoView.setImageBitmap(bitmap);
419         }
420     }
421
422     private int updateListStep(View v) {
423         int imax=mRecipe.getNbStepMax(), iplus;
424         String[] display=new String[imax];
425         mStepNb = mRecipe.getNbStep();
426         int gone=View.GONE;
```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\RecipeEditFragment.java

```
427         int visible=View.VISIBLE;
428         mSTextView[0].setText("1...");
429         mSTextView[0].setVisibility(visible);
430         for(int i=0;i<imax;i++){
431             iplus=i+1; display[i]=iplus+"." +mRecipe.getStep(i+1);
432             if (mStepNb>0) {mSTextView[i].setText(display[i]);}
433             if (i>=0) {mSTextView[i].setVisibility((mStepNb>i)?visible:gone);}
434         }
435         mNewStepBack.setVisibility((mStepNb==0)? gone:visible);
436         mNewStepEnter.setVisibility((mStepNb==imax)? gone:visible);
437         return ((mStepNb==imax)?gone:visible);
438     }
439
440     private int updateListIng(View v) {
441         int imax=mRecipe.getNbIngMax(), iplus;
442         String[] display=new String[imax];
443         mIngNb = mRecipe.getNbIng();
444         int gone=View.GONE;
445         int visible=View.VISIBLE;
446         mSTextIngView[0].setText("-...");
447         mSTextIngView[0].setVisibility(visible);
448         for(int i=0;i<imax;i++){
449             iplus=i+1; display[i]="-" +mRecipe.getIngredient(i+1);
450             if (mIngNb>0) {mSTextIngView[i].setText(display[i]);}
451             if (i>=0) {mSTextIngView[i].setVisibility((mIngNb>i)?visible:gone);}
452         }
453         mNewIngBack.setVisibility((mIngNb==0)? gone:visible);
454         mNewIngEnter.setVisibility((mIngNb==imax)? gone:visible);
455         return ((mIngNb==imax)?gone:visible);
456     }
457
458
459     private Boolean ResizePhoto(Recipe r) {
460         File f = CookBook.get(getActivity()).getPhotoFile(r);
461         if (f==null || !f.exists()){
462             Log.d(TAG, "No file from Cookbook for this recipe :" + r.
        getTitle()+" Error CB004");
463             return false;
464         } else {
465             Bitmap bitmap=PictureUtils.getScaledBitmap(mPhotoFile.
        getPath(), getActivity(), 600);
466             f.delete();
467             try {
468                 if(!f.createNewFile()) {
469                     Log.d(TAG, "File not deleted ! Error CB001");
470                     return false;
471                 }
472             } catch (IOException e) {
473                 Log.d(TAG, "Error in creating new file : "+e+" Error
        CB002");
474                 return false;
475             }
476         }
477     }
```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\RecipeEditFragment.java

```
476         try {
477
478             FileOutputStream fOut = new FileOutputStream(f);
479             bitmap.compress(Bitmap.CompressFormat.JPEG, 100, fOut
480         );
481             fOut.flush();
482             fOut.close();
483             return true;
484         } catch (IOException e) {
485             Log.d(TAG, "Error in reducing and saving file "+"  
Error CB003");
486             return false;
487         }
488     }
489 }
490
```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\RecipeListActivity.java

```
1 package com.example.cookbook;
2
3 import android.support.v4.app.Fragment;
4
5 public class RecipeListActivity extends SingleFragmentActivity {
6     @Override
7     protected Fragment createFragment() {
8         return new RecipeListFragment();
9     }
10 }
11
```

```
1 package com.example.cookbook;
2
3 import android.app.Activity;
4 import android.app.Dialog;
5 import android.content.DialogInterface;
6 import android.content.Intent;
7 import android.graphics.Bitmap;
8 import android.os.Bundle;
9 import android.support.annotation.NonNull;
10 import android.support.v4.app.Fragment;
11 import android.support.v4.app.FragmentManager;
12 import android.support.v7.app.AlertDialog;
13 import android.support.v7.app.AppCompatActivity;
14 import android.support.v7.widget.LinearLayoutManager;
15 import android.support.v7.widget.RecyclerView;
16 import android.util.Log;
17 import android.view.LayoutInflater;
18 import android.view.Menu;
19 import android.view.MenuInflater;
20 import android.view.MenuItem;
21 import android.view.View;
22 import android.view.ViewGroup;
23 import android.widget.Button;
24 import android.widget.ImageView;
25 import android.widget.LinearLayout;
26 import android.widget.RatingBar;
27 import android.widget.TextView;
28 import android.widget.Toast;
29 import android.widget.Toolbar;
30
31 import java.io.File;
32 import java.text.DecimalFormat;
33 import java.util.ArrayList;
34 import java.util.Collections;
35 import java.util.Iterator;
36 import java.util.List;
37 import java.util.stream.Collectors;
38
39 //-----
40 // print 16/07/2021
41 // Saved GitHub V2.0
42 //-----
43 public class RecipeListFragment extends Fragment {
44     private RecyclerView mRecipeRecyclerView;
45     private RecipeAdapter mAdapter;
46     private SessionInfo mSession;
47     private Recipe mRecipeInit;
48     private MenuItem mMessageItem;
49     private static final String SAVED_SORT_STATUS="sort";
50     private int mSortOption;
51     private int finalRate;
52     private static final int maskSortTitle=1 <<3;
```

```

53     private static final int maskSortSource=1;
54     private static final int maskSortNote=1 <<2;
55     private static final int maskSortSeason=1 <<4;
56     private static final int maskSortDifficulty=1 <<5;
57     private static final String TAG = "CB_RecipeListFragment";
58     private static final String DIALOG_RATE = "DialogRate";
59     private static final int REQUEST_RATE = 0;
60
61     @Override
62     public void onCreate(Bundle savedInstanceState) {
63         super.onCreate(savedInstanceState);
64         setHasOptionsMenu(true);
65         mSession= SessionInfo.get(getActivity());
66         mSortOption=0;
67         mRecipeInit=new Recipe();
68         AppCompatActivity activity = (AppCompatActivity) getActivity();
69         User u=mSession.getUser();
70         activity.getSupportActionBar().setSubtitle(getString(R.string
71             .recipe_display_author,u.getName(),u.getFamily()));
72         AsyncCallClass instanceAsync = new AsyncCallClass(getApplicationContext());
73         instanceAsync.execute();
74     }
75     @Override
76     public void onActivityResult(int requestCode, int resultCode,
77     Intent data) {
78         if (resultCode != Activity.RESULT_OK) {
79             return;
80         }
81         //todo P3 enlever request rate reliquat
82         if (requestCode == REQUEST_RATE) {
83             Integer rate = (Integer) data
84                 .getSerializableExtra(RatePickerFragment.
85                 EXTRA_RATE);
86             updateUI();
87         }
88     }
89     @Override
90     public View onCreateView(LayoutInflater inflater, ViewGroup
91     container,
92                     Bundle savedInstanceState) {
93         View view = inflater.inflate(R.layout.fragment_recipe_list,
94         container, false);
95         mRecipeRecyclerView = (RecyclerView) view.findViewById(R.id.
96         recipe_recycler_view);
97         mRecipeRecyclerView.setLayoutManager(new LinearLayoutManager(
98         getActivity()));
99         if (savedInstanceState!=null){
100             mSortOption=savedInstanceState.getInt(SAVED_SORT_STATUS);
101         }
102         updateUI();

```

```

98         return view;
99     }
100
101    @Override
102    public void onResume() {
103        super.onResume();
104        updateUI();
105    }
106
107    @Override
108    public void onSaveInstanceState(Bundle outState) {
109        super.onSaveInstanceState(outState);
110        outState.putInt(SAVED_SORT_STATUS, mSortOption);
111    }
112
113    @Override
114    public void onCreateOptionsMenu(Menu menu, MenuInflater inflater)
115    {
116        super.onCreateOptionsMenu(menu, inflater);
117        inflater.inflate(R.menu.fragment_recipe_list, menu);
118        mMessageItem = menu.findItem(R.id.new_mail);
119        CookBook cookbook=CookBook.get(getActivity());
120        mMessageItem.setVisible(cookbook.isThereMail());
121    }
122
123    @Override
124    public boolean onOptionsItemSelected(MenuItem item) {
125        switch (item.getItemId()){
126            case R.id.new_recipe:
127                Recipe recipe=new Recipe();
128                SessionInfo session=SessionInfo.get(getActivity());
129                recipe.setOwner(session.getUser());
130                recipe.updateTS(AsynCallFlag.NEWRECIPE, true);
131                CookBook.get(getActivity()).addRecipe(recipe);
132                Intent intent= RecipeActivity.newIntent(getActivity()
133 , recipe.getId());
134                startActivity(intent);
135                return true;
136            case R.id.list_logout:
137                mSession.setReqNewSession(true);
138                Intent intent2=new Intent(getActivity().
139 getApplicationContext(), SplashActivity.class);
140                startActivity(intent2);
141                return true;
142            case R.id.list_sync:
143                AsyncCallClass instanceAsync = new AsyncCallClass(
144 getContext());
145                instanceAsync.execute();
146                return true;
147            case R.id.new_mail:
148                Intent intent3= RecipeMailDisplayActivity.newIntent(
149 getActivity());
150                startActivity(intent3);
151                return true;

```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\RecipeListFragment.java

```
147         default:
148             return super.onOptionsItemSelected(item);
149     }
150 }
151
152 private void updateUI() {
153     CookBook cookbook=CookBook.get(getActivity());
154     List<Recipe> recipes_in=cookbook.getRecipes();
155     List<Recipe> recipes=new ArrayList<>();
156     recipes.addAll(recipes_in);
157     for(Recipe r:recipes_in){
158         if (!r.isVisible()){
159             recipes.remove(r);
160         }
161     }
162     if ((mSortOption & maskSortTitle) == maskSortTitle) {
163         Collections.sort(recipes,
164             (r1, r2)->{return(r1.getTitle().compareTo(r2.
165                 getTitle()));});
166         if ((mSortOption & maskSortNote) == maskSortNote) {
167             Collections.sort(recipes,
168                 (r1, r2)->{return((int)(r2.getNoteAvg()-r1.
169                 getNoteAvg()));});
170             if ((mSortOption & maskSortSource) == maskSortSource) {
171                 Collections.sort(recipes,
172                     (r1, r2)->{return(r1.getOwner().getName().
173                         compareTo(r2.getOwner().getName()));});
174             if ((mSortOption & maskSortSeason) == maskSortSeason) {
175                 Collections.sort(recipes,
176                     (r1, r2)->{return(RecipeSeason.getIndex(r1.
177                         getSeason())
178                         -RecipeSeason.getIndex(r2.getSeason()));});
179             if (mAdapter==null){
180                 mAdapter=new RecipeAdapter(recipes);
181                 mRecipeRecyclerView.setAdapter(mAdapter);
182             } else {
183                 mAdapter.setRecipes(recipes);
184                 mAdapter.notifyDataSetChanged();
185             }
186         }
187
188     private class RecipeHolder extends RecyclerView.ViewHolder
189             implements View.OnClickListener {
190         private TextView mTitleTextView;
191         private TextView mSourceTextView;
192         private TextView mNoteTextView;
```

```

193     private TextView mDifficulty;
194     private ImageView mEditIcon;
195     private ImageView mPhotoView;
196     private ImageView mSunIcon;
197     private ImageView mIceIcon;
198     private File mPhotoFile;
199     private Recipe mRecipe;
200     private RatingBar mRating;
201     public RecipeHolder(LayoutInflater inflater, ViewGroup parent)
2 {
202         super(inflater.inflate(R.layout.list_item_recipe, parent,
203 false));
203         itemView.setOnClickListener(this);
204         mTitleTextView= (TextView) itemView.findViewById(R.id.
205 recipe_title);
206         mSourceTextView= (TextView) itemView.findViewById(R.id.
207 recipe_source);
208         mNoteTextView= (TextView) itemView.findViewById(R.id.
209 recipe_note);
210         mEditIcon=(ImageView) itemView.findViewById(R.id.
211 recipe_edit);
212         mSunIcon=(ImageView) itemView.findViewById(R.id.
213 recipe_img_sun);
214         mIceIcon=(ImageView) itemView.findViewById(R.id.
215 recipe_img_ice);
215         mDifficulty=(TextView) itemView.findViewById(R.id.
216 recipe_difficulty);
216         mPhotoView=(ImageView) itemView.findViewById(R.id.
217 recipe_photo);
217         mPhotoFile=CookBook.get(getActivity()).getPhotoFile(
218 mRecipe);
218         mRating=(RatingBar) itemView.findViewById(R.id.
219 recipe_list_ratingBar);
219         mRating.setOnClickListener(new View.OnClickListener() {
220             @Override
221             public void onClick(View v) {
222                 //Toast.makeText(getActivity(), "Call star",
223                 Toast.LENGTH_SHORT).show();
224             }
225         });
226         mTitleTextView.setOnClickListener(new View.
227 OnClickListener() {
228             @Override
229             public void onClick(View v) {
230                 mSortOption=mSortOption ^ maskSortTitle;
231                 updateUI();
232             }
233         });
234         mNoteTextView.setOnClickListener(new View.OnClickListener()
235 {
236             @Override
237             public void onClick(View v){
238                 mSortOption=mSortOption ^ maskSortNote;
239                 updateUI();
240             }
241         });
242     }
243     @Override
244     public void onClick(View v){
245         mSortOption=mSortOption ^ maskSortNote;
246         updateUI();
247     }
248 }

```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\RecipeListFragment.java

```
232         }
233     } );
234     mSourceTextView.setOnClickListener(new View.
235         OnClickListener() {
236             @Override
237             public void onClick(View v) {
238                 mSortOption=mSortOption ^ maskSortSource;
239                 updateUI();
240             }
241         } );
242     /* */
243     mEditIcon.setOnClickListener(new View.OnClickListener() {
244         @Override
245         public void onClick(View v) {
246         }
247     } );*/
248     mSunIcon.setOnClickListener(new View.OnClickListener() {
249         @Override
250         public void onClick(View v) {
251                 mSortOption=mSortOption ^ maskSortSeason;
252                 updateUI();
253             }
254         } );
255         mIceIcon.setOnClickListener(new View.OnClickListener() {
256             @Override
257             public void onClick(View v) {
258                 mSortOption=mSortOption ^ maskSortSeason;
259                 updateUI();
260             }
261         } );
262         mDifficulty.setOnClickListener(new View.OnClickListener()
263         {
264             @Override
265             public void onClick(View v) {
266                 mSortOption=mSortOption ^ maskSortDifficulty;
267                 updateUI();
268             }
269         } );
270         mEditIcon.setOnClickListener(new View.OnClickListener() {
271             @Override
272             public void onClick(View v) {
273                 Intent intent= RecipeActivity.newIntent(
274                     getActivity(),mRecipe.getId());
275                 startActivity(intent);
276             }
277         } );
278         mPhotoView.setOnClickListener(new View.OnClickListener()
279         {
280             @Override
281             public void onClick(View v) {
282                 Intent intent=RecipeDisplayActivity.newIntent(
283                     getActivity(),mRecipe.getId());
284                 startActivity(intent);
285             }
286         } );
287     } );
288 }
```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\RecipeListFragment.java

```
281         } );
282     }
283     public void bind(Recipe recipe) {
284         mRecipe=recipe;
285         mTitleTextView.setText(mRecipe.getTitle());
286         mSourceTextView.setText((" "+mRecipe.getOwner().getName()+
287         ")"));
288         // mSourceTextView.setText(mRecipe.getFlag()); for debug
289         mRating.setRating((float) mRecipe.getNoteAvg());
290         DecimalFormat df = new DecimalFormat("#.#");
291         mNoteTextView.setText(df.format(mRecipe.getNoteAvg())+ "/5
292         "));
293         mPhotoFile=CookBook.get(getActivity()).getPhotoFile(
294             mRecipe);
295         int idff= RecipeDifficulty.getIndex(mRecipe.getDifficulty
296             ());
297         String[] stringArray = getResources().getStringArray(R.
298             array.recipe_difficulty_array);
299         mDifficulty.setText(stringArray[idff]);
300         if (mPhotoFile==null || !mPhotoFile.exists()){
301             mPhotoView.setImageDrawable(getResources().
302                 getDrawable(R.drawable.ic_recipe_see));
303         } else {
304             Bitmap bitmap=PictureUtils.getScaledBitmap(mPhotoFile
305                 .getPath(), getActivity());
306             mPhotoView.setImageBitmap(bitmap);
307         }
308         mIceIcon.setImageResource((mRecipe.IsWinter()) ? R.
309             drawable.ic_recipe_ice : R.drawable.ic_recipe_ice_disabled);
310         mSunIcon.setImageResource((mRecipe.IsSummer()) ? R.
311             drawable.ic_recipe_sun : R.drawable.ic_recipe_sun_disabled);
312         mEditIcon.setVisibility((mRecipe.getOwner().getId() .
313             equals(mSession.getUser().getId())) ? View.VISIBLE : View.GONE);
314     }
315
316     private class RecipeAdapter extends RecyclerView.Adapter<
317         RecipeHolder> {
318         private List<Recipe> mRecipes;
319         public RecipeAdapter(List<Recipe> recipes) {
320             mRecipes=recipes;
321         }
```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\RecipeListFragment.java

```
322     @NonNull
323     @Override
324     public RecipeHolder onCreateViewHolder(@NonNull ViewGroup
325         parent, int viewType) {
325         LayoutInflater layoutInflater=LayoutInflater.from(
326             getActivity());
326         return new RecipeHolder(layoutInflater, parent);
327     }
328
329     @Override
330     public void onBindViewHolder(@NonNull RecipeHolder
331         recipeHolder, int i) {
331         Recipe recipe=mRecipes.get(i);
332         recipeHolder.bind(recipe);
333     }
334
335     @Override
336     public int getItemCount() {
337         return mRecipes.size();
338     }
339
340     public void setRecipes(List<Recipe> recipes){
341         mRecipes=recipes;
342     }
343 }
344 }
345 }
```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\RecipeCursorWrapper.java

```
1 package com.example.cookbook;
2
3 import android.database.Cursor;
4 import android.database.CursorWrapper;
5 import android.util.Log;
6
7 import java.net.MalformedURLException;
8 import java.net.URL;
9 import java.util.Date;
10 import java.util.UUID;
11
12 import static com.example.cookbook.RecipeDbSchema.*;
13
14 public class RecipeCursorWrapper extends CursorWrapper {
15     public RecipeCursorWrapper(Cursor cursor) {
16         super(cursor);
17     }
18     private static final String TAG = "DebugCursorWrapper";
19
20     public Recipe getRecipe() {
21         String uuidString = getString(getColumnIndex(RecipeTable.Cols.
22             .UUID));
22         Recipe r=new Recipe(UUID.fromString(uuidString));
23         String ownerString = getString(getColumnIndex(RecipeTable.Cols
24             .OWNER));
24         r.getOwnerDeserialized(ownerString);
25         String title = getString(getColumnIndex(RecipeTable.Cols.TITLE
26             ));
26         r.setTitle(title);
27         String source = getString(getColumnIndex(RecipeTable.Cols.
28             SOURCE));
28         r.setSource(source);
29         String sourceURL=getString(getColumnIndex(RecipeTable.Cols.
30             SOURCE_URL));
30         try {
31             URL url = new URL(sourceURL);
32             r.setSource_url(url);
33         catch (MalformedURLException e) {
34             Log.d(TAG, "getURL from cursor failed");
35         }
36         long date = getLong(getColumnIndex(RecipeTable.Cols.DATE));
37         r.setDate(new Date(date));
38         date = getLong(getColumnIndex(RecipeTable.Cols.DATE_PHOTO));
39         r.setDatePhoto(new Date(date));
40         int nbpers=getInt(getColumnIndex(RecipeTable.Cols.NBPERS));
41         r.setNbPers(nbpers);
42         String[] step= new String[r.getNbStepMax()];
43         for(int i=0;i<r.getNbStepMax();i++) {
44             step[i]=getString(getColumnIndex(RecipeTable.Cols.STEP[i])
45             );
45             r.setStep(i+1, step[i]);
46         }
47         String[] ing=new String[r.getNbIngMax()];
48         for(int i=0;i<r.getNbIngMax(); i++) {
```

```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\RecipeCursorWrapper.java
49             ing[i]=getString(getColumnIndex(RecipeTable.Cols.ING[i]));
50         ;
51     }
52     String season = getString(getColumnIndex(RecipeTable.Cols.
53     SEASON));
53     r.setSeason(RecipeSeason.valueOf(season));
54     String difficulty = getString(getColumnIndex(RecipeTable.Cols.
55     .DIFFICULTY));
55     r.setDifficulty(RecipeDifficulty.valueOf(difficulty));
56     String comments = getString(getColumnIndex(RecipeTable.Cols.
57     COMMENTS));
57     r.getCommentsDeserialised(comments);
58     String status = getString(getColumnIndex(RecipeTable.Cols.
59     STATUS));
59     r.setStatus(StatusRecipe.valueOf(status));
60     String notes = getString(getColumnIndex(RecipeTable.Cols.
61     NOTES));
61     r.getNotesDeserialised(notes);
62     String message = getString(getColumnIndex(RecipeTable.Cols.
63     MESSAGE));
63     r.setMessage(message);
64     String fromString = getString(getColumnIndex(RecipeTable.Cols.
65     .MESSAGE_FROM));
65     r.getFromDeserialized(fromString);
66     int tsrecipe = getInt(getColumnIndex(RecipeTable.Cols.
67     TS_RECIPE));
67     r.updateTS(AsynCallFlag.NEWRECIPE, (tsrecipe==1));
68     int tsphoto = getInt(getColumnIndex(RecipeTable.Cols.TS_PHOTO
68     ));
69     r.updateTS(AsynCallFlag.NEWPHOTO, (tsphoto==1));
70     int tscomment = getInt(getColumnIndex(RecipeTable.Cols.
71     TS_COMMENT));
71     r.updateTS(AsynCallFlag.NEWCOMMENT, (tscomment==1));
72     int tsnote = getInt(getColumnIndex(RecipeTable.Cols.TS_NOTE));
72     ;
73     r.updateTS(AsynCallFlag.NEWRATING, (tsnote==1));
74     return r;
75   }
76 }
77

```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\RecipeDisplayActivity.java

```
1 package com.example.cookbook;
2
3 import android.content.Context;
4 import android.content.Intent;
5 import android.support.v4.app.Fragment;
6
7 import java.util.UUID;
8
9 public class RecipeDisplayActivity extends SingleFragmentActivity {
10     private static final String EXTRA_RECIPE_ID="com.example.cookbook.
11     recipe_id";
12
13     public static Intent newIntent(Context packageContexte, UUID
14     recipeId) {
15         Intent intent=new Intent(packageContexte,
16         RecipeDisplayActivity.class);
17         intent.putExtra(EXTRA_RECIPE_ID, recipeId);
18         return intent;
19     }
20
21     @Override
22     protected Fragment createFragment() {
23         UUID recipeId=(UUID) getIntent().getSerializableExtra(
24         EXTRA_RECIPE_ID);
25         return RecipeDisplayFragment.newInstance(recipeId);
26     }
27 }
```

```
1 package com.example.cookbook;
2
3 import android.content.Intent;
4 import android.content.pm.PackageManager;
5 import android.graphics.Bitmap;
6 import android.os.Bundle;
7 import android.provider.MediaStore;
8 import android.support.v4.app.Fragment;
9 import android.text.Editable;
10 import android.text.TextWatcher;
11 import android.util.Log;
12 import android.view.LayoutInflater;
13 import android.view.Menu;
14 import android.view.MenuItem;
15 import android.view.View;
16 import android.view.ViewGroup;
17 import android.widget.EditText;
18 import android.widget.ImageView;
19 import android.widget.RatingBar;
20 import android.widget ScrollView;
21 import android.widget.Spinner;
22 import android.widget.TextView;
23
24
25 import java.io.File;
26 import java.text.DecimalFormat;
27 import java.util.UUID;
28
29 public class RecipeDisplayFragment extends Fragment {
30     private static final String ARG_RECIPE_ID="recipe_id";
31     private static final String TAG = "CB_RecipeDisplayFrag";
32     private static final int REQUEST_PHOTO= 2;
33     private Recipe mRecipe;
34     private File mPhotoFile;
35     private int mStepNb;
36     private int mIngNb;
37     private String newcomment;
38     private String DEFAULT_URL="https://www.cookbookfamily.com";
39
40     private SessionInfo mSession;
41     private ImageView mDPhotoView;
42     private TextView mDTITLEText;
43     private RatingBar mDRatingBar;
44     private TextView mDRatingBarText;
45     private TextView mDAuthorText;
46     private TextView mDDifficulty;
47     private ImageView mSunIcon;
48     private ImageView mIceIcon;
49     private TextView mDSourceText;
50     private TextView mDSourceUrl;
51     private TextView mDIingTitle;
52     private TextView mDComTitle;
53     private TextView[] mDStepText;
54     private TextView[] mDIngText;
```

```

55     private TextView[] mDComText;
56     private EditText mDNexComment;
57     private ImageView mDEnterComment;
58     private ScrollView mScroll;
59
60     public static RecipeDisplayFragment newInstance(UUID recipeId) {
61         Bundle args=new Bundle();
62         args.putSerializable(ARG_RECIPE_ID, recipeId);
63         RecipeDisplayFragment fragment=new RecipeDisplayFragment();
64         fragment.setArguments(args);
65         return fragment;
66     }
67
68     @Override
69     public void onCreate(Bundle savedInstanceState) {
70         super.onCreate(savedInstanceState);
71         mRecipe=new Recipe();
72         UUID recipeId=(UUID) getArguments().getSerializable(
73             ARG_RECIPE_ID);
74         mRecipe=CookBook.get(getActivity()).getRecipe(recipeId);
75         mPhotoFile=CookBook.get(getActivity()).getPhotoFile(mRecipe);
76         mSession= SessionInfo.get(getActivity());
77         setHasOptionsMenu(true);
78         mStepNb=mRecipe.getNbStep();
79         mIngNb=mRecipe.getNbIng();
80     }
81     @Override
82     public void onPause() {
83         super.onPause();
84         CookBook.get(getActivity()).updateRecipe(mRecipe);
85     }
86     @Override
87     public void onCreateOptionsMenu(Menu menu, MenuInflater inflater)
88     {
89         super.onCreateOptionsMenu(menu, inflater);
90         inflater.inflate(R.menu.fragment_recipe_display, menu);
91         MenuItem menuItem = menu.findItem(R.id.recipe_menu_edit);
92         if (!mRecipe.getOwner().getId().equals(mSession.getUser().
93             getId())){
94             //getActivity().invalidateOptionsMenu();
95             menuItem.setVisible(false);
96         }
97     }
98     @Override
99     public boolean onOptionsItemSelected(MenuItem item) {
100         switch (item.getItemId()) {
101             case R.id.recipe_menu_report:
102                 Intent i=new Intent(Intent.ACTION_SEND);
103                 i.setType("text/plain");
104                 i.putExtra(Intent.EXTRA_TEXT, getRecipeReport());
105                 i.putExtra(Intent.EXTRA_SUBJECT, getString(R.string.
recipe_report_subject));

```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\RecipeDisplayFragment.java

```
105         startActivity(i);
106         return true;
107     case R.id.recipe_menu_edit:
108         Intent intent= RecipeActivity.newIntent(getActivity()
109         ,mRecipe.getId());
110         startActivity(intent);
111         return true;
112     case R.id.recipe_mail:
113         // call
114         return true;
115     case R.id.recipe_menu_delete:
116         CookBook.get(getActivity()).markRecipeToDelete(
117             mRecipe);
118         getActivity().onBackPressed();
119     default:
120         return super.onOptionsItemSelected(item);
121     }
122 }
123 @Override
124 public View onCreateView(LayoutInflater inflater, ViewGroup
125 container, Bundle savedInstanceState){
126     final View v=inflater.inflate(R.layout.
127     fragment_display_recipe, container, false);
128     mScrollView=(ScrollView) v.findViewById(R.id.
129     fragment_recipe_scroll);
130     mDTitleText =(TextView) v.findViewById(R.id.
131     recipe_display_title);
132     mDPPhotoView=(ImageView) v.findViewById(R.id.
133     recipe_display_photo);
134     updatePhotoView();
135     mDRatingBar=(RatingBar) v.findViewById(R.id.
136     recipe_display_ratingBar);
137     mDRatingBarText=(TextView) v.findViewById(R.id.
138     recipe_display_ratingBar_txt);
139     mDDifficulty=(TextView) v.findViewById(R.id.
140     recipe_display_difficulty);
141     mSunIcon=(ImageView) v.findViewById(R.id.recipe_img_sun);
142     mIceIcon=(ImageView) v.findViewById(R.id.recipe_img_ice);
143     mDAuthorText=(TextView) v.findViewById(R.id.
144     recipe_display_author);
145     mDSourceText=(TextView) v.findViewById(R.id.
146     recipe_display_source);
147     mDSOURCEUrl=(TextView) v.findViewById(R.id.
148     recipe_display_source_url);
149     mDIngTitle=(TextView) v.findViewById(R.id.
150     recipe_display_title_ing);
151     mDComTitle=(TextView)v.findViewById(R.id.
152     recipe_display_comment_title);
153     final int[] rIngID= {R.id.recipe_display_I01,R.id.
154     recipe_display_I02,R.id.recipe_display_I03,
155     R.id.recipe_display_I04,R.id.recipe_display_I05,R.id.
156     recipe_display_I06,
157     R.id.recipe_display_I07,R.id.recipe_display_I08,R.id.
```



```

180         }
181
182     @Override
183     public void afterTextChanged(Editable s) {
184
185     }
186   });
187   mDEnterComment=(ImageView) v.findViewById(R.id.
188   recipe_img_enter);
189   mDEnterComment.setOnClickListener(new View.OnClickListener()
190   {
191     @Override
192     public void onClick(View v) {
193       mRecipe.addComment(new Comment(newcomment, mSession.
194       getUser()));
195       mRecipe.updateTS(AsynCallFlag.NEWCOMMENT, true);
196       mDNexComment.setText("...");
197       updateUI();
198     }
199   });
200   return v;
201 }
202 private void updatePhotoView(){
203   if (mPhotoFile==null || !mPhotoFile.exists()){
204     mDPhotoView.setImageDrawable(getResources().getDrawable(R
205     .drawable.ic_recipe_camera));
206   } else {
207     Bitmap bitmap=PictureUtils.getScaledBitmap(mPhotoFile.
208     getPath(), getActivity());
209     mDPhotoView.setImageBitmap(bitmap);
210   }
211 }
212 private void updateUI(){
213   String s;
214   User u=mRecipe.getOwner();
215   int ingMax=mRecipe.getNbIngMax();
216   int stepMax=mRecipe.getNbStepMax();
217   int comMax=mRecipe.getNbComMax();
218   int NbCom=mRecipe.getComments().size();
219   int gone=View.GONE;
220   int visible=View.VISIBLE;
221   DecimalFormat df = new DecimalFormat("#.#");
222   mDTiteText.setText(mRecipe.getTitle());
223   mDRatingBar.setRating((float) mRecipe.getNoteAvg());
224   mDRatingBarText.setText(df.format(mRecipe.getNoteAvg())+" ("+
225   + mRecipe.getNotes().size()+""));
226   s=getString(R.string.recipe_display_author,u.getName(),u.
227   getFamily());
228   int idiff= RecipeDifficulty.getIndex(mRecipe.getDifficulty())
229   ;
230   String[] stringArrayDiff = getResources().getStringArray(R.
231   array.recipe_difficulty_array);
232   mDDifficulty.setText(stringArrayDiff[idiff]);
233   mSunIcon.setImageResource((mRecipe.IsSummer()) ? R.drawable.

```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\RecipeDisplayFragment.java

```
224     ic_recipe_sun : R.drawable.ic_recipe_sun_disabled);
225     mIceIcon.setImageResource((mRecipe.IsWinter()) ? R.drawable.
226         ic_recipe_ice : R.drawable.ic_recipe_ice_disabled);
227     mDAuthorText.setText(s);
228     mDSourceText.setText(mRecipe.getSource());
229     if (mRecipe.getSource_url_name().equals(DEFAULT_URL)) {
230         mDSourceUrl.setText("");
231     } else {mDSourceUrl.setText(mRecipe.getSource_url_name());}
232     s=getString(R.string.recipe_display_title_ing, ""+mRecipe.
233     getNbPers());
234     mDIIngTitle.setText(s);
235     for(int i=0;i<ingMax;i++){
236         if (mIngNb>0){mDIIngText[i].setText("- "+mRecipe.
237     getIngredient(i+1));
238         if (i>=0){mDIIngText[i].setVisibility((mIngNb>i)? visible:
239             gone);}
240     }
241     s=getString(R.string.recipe_display_title_comment, ""+mRecipe.
242     .getComments().size());
243     mDComTitle.setText(s);
244     for(int i=0;i<comMax;i++){
245         if (NbCom>0){
246             if (i<NbCom) {mDComText[i].setText("- "+mRecipe.
247     getComment(NbCom-i-1).toTxt());}
248             else {mDComText[i].setText("");}
249         }
250     }
251     private String getRecipeReport(){
252         String report;
253         Integer iplus;
254         report =getString(R.string.recipe_report_title, mRecipe.
255         getTitle()+"\n";
256         report +=getString(R.string.recipe_report_owner,mRecipe.
257         getOwner().getNameComplete())+"\n";
258         //String dateFormat = "dd MMM yyyy";
259         //String dateString=DateFormat.format(dateFormat,mRecipe.
260         getDate()).toString();
261         if(!mRecipe.getSource_url_name().equals("")){
262             report += getString(R.string.recipe_report_url, mRecipe.
263             getSource_url_name())+"\n";
264         }
265         for(int i=0;i<mRecipe.getNbIng();i++){
266             report += getString(R.string.recipe_report_ing, mRecipe.
267             getIngredient(i+1))+"\n";
268         }
269     }
```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\RecipeDisplayFragment.java

```
264         for(int i=0;i<mRecipe.getNbStep();i++) {
265             iplus=i+1;
266             report += getString(R.string.recipe_report_step, iplus+""
267                               mRecipe.getStep(i+1)+"\n");
268         }
269         report +=getString(R.string.recipe_report_final);
270         return report;
271     }
272
273 }
274
```

```
1 package com.example.cookbook;
2
3 import android.os.Bundle;
4 import android.support.v4.app.Fragment;
5 import android.support.v4.app.FragmentManager;
6 import android.support.v7.app.AppCompatActivity;
7
8 public abstract class SingleFragmentActivity extends AppCompatActivity
9 {
10     protected abstract Fragment createFragment();
11     @Override
12     protected void onCreate(Bundle savedInstanceState) {
13         super.onCreate(savedInstanceState);
14         setContentView(R.layout.activity_fragment);
15         FragmentManager fm = getSupportFragmentManager();
16         Fragment fragment = fm.findFragmentById(R.id.
17             fragment_container);
18         if (fragment == null) {
19             fragment = createFragment();
20             fm.beginTransaction()
21                 .add(R.id.fragment_container, fragment)
22                 .commit();
23     }
24 }
```

File - D:\4. Softwares\AndroidStudioProjects\CookBook\app\src\main\java\com\example\cookbook\RecipeMailDisplayActivity.java

```
1 package com.example.cookbook;
2
3 import android.content.Context;
4 import android.content.Intent;
5 import android.support.v4.app.Fragment;
6
7 public class RecipeMailDisplayActivity extends SingleFragmentActivity
8 {
9     //private static final String EXTRA_RECIPE_ID="com.example.
10 cookbook.recipe_id";
11     public static Intent newIntent(Context packageContexte) {
12         Intent intent=new Intent(packageContexte,
13         RecipeMailDisplayActivity.class);
14         //intent.putExtra(EXTRA_RECIPE_ID, recipeId);
15         return intent;
16     }
17     @Override
18     protected Fragment createFragment() {
19         //UUID recipeId=(UUID) getIntent().getSerializableExtra(
20         EXTRA_RECIPE_ID);
21         return RecipeMailDisplayFragment.newInstance();
22     }
23 }
```

```
1 package com.example.cookbook;
2
3 import android.graphics.Bitmap;
4 import android.os.Bundle;
5 import android.support.annotation.NonNull;
6 import android.support.v4.app.Fragment;
7 import android.support.v7.widget.LinearLayoutManager;
8 import android.support.v7.widget.RecyclerView;
9 import android.util.Log;
10 import android.view.LayoutInflater;
11 import android.view.View;
12 import android.view.ViewGroup;
13 import android.widget.ImageView;
14 import android.widget.TextView;
15
16 import java.io.File;
17 import java.util.ArrayList;
18 import java.util.List;
19
20 public class RecipeMailDisplayFragment extends Fragment {
21     private RecyclerView mRecipeRecyclerView;
22     private RecipeAdapter mAdapter;
23     private SessionInfo mSession;
24     private static final String TAG = "CB_R.MailDisplayFrag";
25
26     public static RecipeMailDisplayFragment newInstance() {
27         //Bundle args=new Bundle();
28         //args.putSerializable(ARG_RECIPE_ID, recipeId);
29         RecipeMailDisplayFragment fragment=new
30             RecipeMailDisplayFragment();
31         //fragment.setArguments(args);
32         return fragment;
33     }
34
35     @Override
36     public void onCreate(Bundle savedInstanceState) {
37         super.onCreate(savedInstanceState);
38         setHasOptionsMenu(true);
39         mSession= SessionInfo.get(getActivity());
40     }
41
42     @Override
43     public View onCreateView(LayoutInflater inflater, ViewGroup
44         container,
45                     Bundle savedInstanceState) {
46         View view = inflater.inflate(R.layout.fragment_recipe_list,
47             container, false);
48         mRecipeRecyclerView = (RecyclerView) view.findViewById(R.id.
49             recipe_recycler_view);
50         mRecipeRecyclerView.setLayoutManager(new LinearLayoutManager(
51             getActivity()));
52         updateUI();
53         return view;
54     }
55 }
```

```

50
51     @Override
52     public void onResume() {
53         super.onResume();
54         updateUI();
55     }
56
57     private void updateUI() {
58         CookBook cookbook=CookBook.get(getActivity());
59         List<Recipe> recipes_in=cookbook.getRecipes();
60         List<Recipe> recipes=new ArrayList<>();
61         for(Recipe r:recipes_in){
62             if (r.IsMessage()) recipes.add(r);
63         }
64         if (mAdapter==null){
65             mAdapter=new RecipeMailDisplayFragment.RecipeAdapter(
66             recipes);
67             mRecipeRecyclerView.setAdapter(mAdapter);
68         } else {
69             mAdapter.setRecipes(recipes);
70             mAdapter.notifyDataSetChanged();
71         }
72 // -----RECIPE HOLDER
73 -----
73     private class RecipeHolder extends RecyclerView.ViewHolder
74         implements View.OnClickListener {
75         private TextView mTitleTextView;
76         private TextView mMessage;
77         private TextView mFrom;
78         private ImageView mPhotoView;
79         private ImageView mDelete;
80         private ImageView mAdd;
81         private File mPhotoFile;
82         private Recipe mRecipe;
83
84         public RecipeHolder(LayoutInflater inflater, ViewGroup parent)
85         {
86             super(inflater.inflate(R.layout.list_item_mail_display,
87             parent, false));
88             itemView.setOnClickListener(this);
89             mTitleTextView= (TextView) itemView.findViewById(R.id.
90             recipe_MD_title);
90             mMessage=(TextView) itemView.findViewById(R.id.
91             mail_display_message);
92             mFrom=(TextView) itemView.findViewById(R.id.
93             mail_display_author);
93             mDelete=(ImageView) itemView.findViewById(R.id.
94             mail_display_delete);
95             mAdd=(ImageView) itemView.findViewById(R.id.
96             mail_display_add);
97             mPhotoView=(ImageView) itemView.findViewById(R.id.
98             recipe_MD_photo);
99             mPhotoFile=CookBook.get(getActivity()).getPhotoFile(

```

```

93 mRecipe);
94
95         mDelete.setOnClickListener(new View.OnClickListener() {
96             @Override
97             public void onClick(View v) {
98                 Log.d(TAG, "Delete :" + mRecipe.getTitle());
99                 updateUI();
100            }
101        });
102        mAdd.setOnClickListener(new View.OnClickListener() {
103            @Override
104            public void onClick(View v) {
105                Log.d(TAG, "Add :" + mRecipe.getTitle());
106                updateUI();
107            }
108        });
109
110    }
111    public void bind(Recipe recipe){
112        mRecipe=recipe;
113        mTitleTextView.setText(mRecipe.getTitle());
114        mMessage.setText(mRecipe.getMessage());
115        mFrom.setText(mRecipe.getUserFrom().getNameComplete());
116        mPhotoFile=CookBook.get(getActivity()).getPhotoFile(
117            mRecipe);
118        if (mPhotoFile==null || !mPhotoFile.exists()){
119            mPhotoView.setImageDrawable(getResources().
120                getDrawable(R.drawable.ic_recipe_see));
121        } else {
122            Bitmap bitmap=PictureUtils.getScaledBitmap(mPhotoFile
123                .getPath(), getActivity());
124            mPhotoView.setImageBitmap(bitmap);
125        }
126    }
127 // -----ADAPTER
-----
128     private class RecipeAdapter extends RecyclerView.Adapter<
129         RecipeMailDisplayFragment.RecipeHolder> {
130         private List<Recipe> mRecipes;
131         public RecipeAdapter(List<Recipe> recipes){
132             mRecipes=recipes;
133         }
134         @NonNull
135         @Override
136         public RecipeMailDisplayFragment.RecipeHolder
137             onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {
138                 LayoutInflator layoutInflater=LayoutInflator.from(
139                     getActivity());
140                 return new RecipeMailDisplayFragment.RecipeHolder(
141                     layoutInflater, parent);

```

```
139         }
140
141     @Override
142     public void onBindViewHolder(@NonNull
143         RecipeMailDisplayFragment.RecipeHolder recipeHolder, int i) {
143         Recipe recipe=mRecipes.get(i);
144         recipeHolder.bind(recipe);
145     }
146
147     @Override
148     public int getItemCount() {
149         return mRecipes.size();
150     }
151
152     public void setRecipes(List<Recipe> recipes){
153         mRecipes=recipes;
154     }
155 }
156
157 }
158 }
```