

```
1 package com.fdx.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()));
```

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

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

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

```

1 package com.fdx.cookbook;
2
3 import com.google.gson.Gson;
4 import com.google.gson.reflect.TypeToken;
5
6 import java.lang.reflect.Type;
7 import java.net.MalformedURLException;
8 import java.net.URL;
9 import java.util.ArrayList;
10 import java.util.Calendar;
11 import java.util.Date;
12 import java.util.UUID;
13
14
15 enum StatusRecipe {Submitted,Visible, Deleted }
16 public class Recipe {
17     private UUID mId;
18     private User mOwner;
19     private Date mLastUpdateRecipe;
20     private Date mLastUpdatePhoto;
21     private String mTitle;
22     private String mSource;
23     private URL mSource_url;
24     private int mNbPers;
25     private String[] mSteps;
26     private double mNoteAvg;
27     private ArrayList<Note> mNotes;
28     private ArrayList<Comment> mComments;
29     private RecipeSeason mSeason;
30     private RecipeType mType;
31     private RecipeDifficulty mDifficulty;
32     private String[] mIngredients;
33     private StatusRecipe mStatus;
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     private String UUIDNULL="00000000-0000-0000-0000-000000000000";
47
48
49
50     public Recipe() {
51         this(UUID.randomUUID());
52     }
53
54     public Recipe( UUID id) {

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```

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

```

```

109     }
110
111     public String getMessage() {
112         return mMessage;
113     }
114
115     public void setMessage(String message) {
116         mMessage=message;
117     }
118
119
120     // -----STEP-----
121     public void setStep(Integer i, String step) {
122         if ((i > 0) && (i <= NBSTEP_MAX)) {
123             mSteps[i - 1] = step;
124         }
125     }
126
127     public String getStep(Integer i){
128         if ((i>0)&&(i<=NBSTEP_MAX)) {return mSteps[i-1];}
129         else{ return "";}
130     }
131
132     public int getNbStep(){
133         int j=0;
134         for(int i=NBSTEP_MAX; i>0; i--){
135             if (!mSteps[i-1].isEmpty()) {j=i; break;}
136         return j;
137     }
138
139     public int getNbStepMax(){return NBSTEP_MAX;}
140
141     //-----Ingredients-----
142     public void setIngredient(Integer i, String ing) {
143         if ((i > 0) && (i <= NBING_MAX)) {
144             mIngredients[i-1] = ing;
145         }
146     }
147
148     public String getIngredient(Integer i){
149         if ((i>0)&&(i<=NBING_MAX)) {return mIngredients[i-1];}
150         else{ return "";}
151     }
152     public int getNbIng(){
153         int j=0;
154         for(int i=NBING_MAX; i>0; i--){
155             if (!mIngredients[i-1].isEmpty()) {j=i; break;}
156         return j;
157     }
158
159     public int getNbIngMax(){return NBING_MAX;}
160
161     //----- Users -----
162     public UUID getId() {

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```

163         return mId;
164     }
165
166     public User getUserFrom() {
167         return mIdFrom;
168     }
169
170     public void setUserFrom(User idFrom) {
171         mIdFrom = idFrom;
172     }
173
174     public void setId(UUID id) {mId = id; }
175
176     public User getOwner() {
177         return mOwner;
178     }
179
180     public String getOwnerIdString() {
181         return mOwner.getId().toString();
182     }
183
184     public void setOwner(User owner) {
185         mOwner = owner;
186     }
187
188     //----- Source -----
189     public String getSource() {
190         if (mSource==null) return "";
191         return mSource;
192     }
193     public void setSource(String source) {
194         mSource = source;
195     }
196     public URL getSource_url() {
197         return mSource_url;
198     }
199
200     public String getSource_url_name() {
201         String ret=mSource_url.toString();
202         if (ret.equals("https:") || ret.equals("http:")){ret="";}
203         return ret;
204     }
205
206     public void setSource_url(URL source_url) {
207         mSource_url = source_url;
208     }
209
210     // -----Enum -----m
211
212     public RecipeSeason getSeason() {
213         return mSeason;
214     }
215
216     public void setSeason(RecipeSeason season) {

```

```
217         mSeason = season;
218     }
219
220     public boolean IsSummer(){
221         switch (mSeason) {
222             case SUMMER:
223                 return true;
224             case ALLYEAR:
225                 return true;
226             default:
227                 return false;
228         }
229     }
230     public boolean IsWinter(){
231         switch (mSeason) {
232             case WINTER:
233                 return true;
234             case ALLYEAR:
235                 return true;
236             default:
237                 return false;
238         }
239     }
240     public RecipeType getType() {
241         return mType;
242     }
243     public void setType(RecipeType type) {
244         mType = type;
245     }
246
247     public RecipeDifficulty getDifficulty() {
248         return mDifficulty;
249     }
250
251     public void setDifficulty(RecipeDifficulty difficulty) {
252         mDifficulty = difficulty;
253     }
254
255     public StatusRecipe getStatus() {return mStatus;}
256     public void setStatus(StatusRecipe s) {
257         mStatus = s;
258     }
259     public boolean IsVisible(){
260         if (mStatus==StatusRecipe.Visible) {return true;}
261         return false;
262     }
263     public boolean IsMessage(){
264         if (mStatus==StatusRecipe.Submitted) {return true;}
265         return false;
266     }
267     public boolean IsMarkedDeleted(){
268         if (mStatus==StatusRecipe.Deleted) {return true;}
269         return false;
270     }
```

```

271
272     public void updateTS(AsynCallFlag asyn, Boolean b) {
273         switch(asyn) {
274             case NEWRECIPE:{mTS_recipe=b;return;}
275             case NEWPHOTO:{mTS_photo=b;return;}
276             case NEWRATING:{mTS_note=b;return;}
277             case NEWCOMMENT:{mTS_comment=b;return;}
278         }
279         return;
280     }
281
282     public int getTS(AsynCallFlag asyn) {
283         Boolean b=false;
284         switch(asyn) {
285             case NEWRECIPE:{b=mTS_recipe; break;}
286             case NEWPHOTO:{b=mTS_photo; break;}
287             case NEWRATING:{b=mTS_note; break;}
288             case NEWCOMMENT:{b=mTS_comment; break;}
289         }
290         return (b ? 1:0);
291     }
292
293     //----- photo filename-----
294     public String getPhotoFilename(){
295         return "IMG"+getId().toString() + ".jpg";
296     }
297
298     //----- ArrayList Comments et Notes
299     -----
300     public void addComment(Comment c){ mComments.add(c);}
301     public ArrayList<Comment> getComments() {return mComments;}
302
303     public Comment getComment(int i){
304         if (i<mComments.size()){
305             return mComments.get(i);
306         } else {return null;}
307     }
308
309
310     public int getNbComMax(){return NBCOM_MAX;} // nb max affiché
311
312     public void addNote(Note note){ mNotes.add(note);}
313
314     public ArrayList<Note> getNotes() {return mNotes;}
315
316     public Note getNote(int i){
317         if (mNotes==null) return null;
318         if (i<mNotes.size()) { return mNotes.get(i);}
319         else {return null;}
320     }
321
322     public double getNoteAvg() {
323         mNoteAvg=0;

```

```

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

```

```

376     // **** tests ****
377     public Boolean hasNotChangedSince(Recipe r) {
378         if (!mId.toString().equals(r.getId().toString())) return
379             false;
380         if (!mOwner.getId().toString().equals(r.getOwner().getId().to
381             String())) return false;
382         if (!mTitle.equals(r.getTitle())) return false;
383         if (!mSource.equals(r.getSource())) return false;
384         if (!mSource_url.equals(r.getSource_url())) return false;
385         if (mNbPers!=r.getNbPers()) return false;
386         for (int i = 0; i < r.getNbStepMax(); i++) {
387             if (!mSteps[i].equals(r.getStep(i+1))) return false;
388         }
389         for (int i = 0; i < r.getNbIngMax(); i++) {
390             if (!mIngredients[i].equals(r.getIngredient(i + 1)))
391                 return false;
392         }
393         if (!mSeason.toString().equals(r.getSeason().toString()))
394             return false;
395         if (!mType.toString().equals(r.getType().toString())) return
396             false;
397         if (!mDifficulty.toString().equals(r.getDifficulty().toString()
398             )) return false;
399         return true;
400     }
401
402     public boolean containQuery(String s){ //for search request
403         if (mTitle.indexOf(s)!=-1) return true;
404         if (mOwner.getFamily().toString().indexOf(s)!=-1) return true
405         ;
406         for(String sloop:mIngredients){
407             if (sloop==null) break;
408             if (sloop.indexOf(s)!=-1) return true;
409         }
410         for(String sloop:mSteps){
411             if (sloop==null) break;
412             if (sloop.indexOf(s)!=-1) return true;
413         }
414         for(Comment c:mComments){
415             if (c==null) break;
416             if (c.getText().indexOf(s)!=-1) return true;
417         }
418         return false;
419     }
420 }
```

```

1 package com.fdx.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;

```

```
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.fdx.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.util.ArrayList;
12 import java.util.Date;
13 import java.util.List;
14 import java.util.UUID;
15
16 public class CookBook {
17     private static CookBook ourInstance ;
18     private Context mContext;
19     private SQLiteDatabase mDatabase;
20     private static final String TAG = "CB_Cookbook";
21
22     public static CookBook get(Context context) {
23         if (ourInstance==null){
24             ourInstance= new CookBook(context);
25         }
26         return ourInstance;
27     }
28
29     private CookBook(Context context) {
30         mContext=context.getApplicationContext();
31         mDatabase=new RecipeBaseHelper(mContext)
32             .getWritableDatabase();
33     }
34
35     public Recipe getRecipe(UUID id) {
36         RecipeCursorWrapper cursor=queryRecipes(
37             RecipeDbSchema.RecipeTable.Cols.UUID+" =?",
38             new String[] {id.toString()})
39     ;
40         try{
41             if (cursor.getCount()==0) {return null;}
42             cursor.moveToFirst();
43             return cursor.getRecipe();
44         } finally {cursor.close();}
45     }
46
47     public void updateRecipe(Recipe r) {
48         String uuidString=r.getId().toString();
49         //r.setDate(new Date());
50         ContentValues values=getContentValues(r);
51         mDatabase.update(RecipeDbSchema.RecipeTable.NAME, values,
52             RecipeDbSchema.RecipeTable.Cols.UUID+" =?",
53             new String[] {uuidString});
54     }

```

```

55
56     private RecipeCursorWrapper queryRecipes(String whereClause,
57         String[] whereArgs) {
58         Cursor cursor=mDatabase.query(
59             RecipeDbSchema.RecipeTable.NAME,
60             null, // select all columns
61             whereClause,
62             whereArgs,
63             null, null, null
64         );
65         return new RecipeCursorWrapper(cursor);
66     }
67
68     public void addRecipe(Recipe r){
69         if (this.getRecipe(r.getId())==null) {
70             ContentValues values=getContentValues(r);
71             mDatabase.insert(RecipeDbSchema.RecipeTable.NAME, null,
72                 values);
73         }
74     }
75
76     public void removeRecipe(Recipe r){
77         String uuidString=r.getId().toString();
78         mDatabase.delete(RecipeDbSchema.RecipeTable.NAME,
79             RecipeDbSchema.RecipeTable.Cols.UUID+"=?",
80             new String[] {uuidString});
81         return;
82     }
83
84     public void markRecipeToDelete(Recipe r){
85         r.setStatus(StatusRecipe.Deleted);
86         updateRecipe(r);
87         return;
88     }
89
90     public List<Recipe> getRecipes(){
91         List<Recipe> recipes=new ArrayList<>();
92         RecipeCursorWrapper cursor=queryRecipes(null, null);
93         try{
94             cursor.moveToFirst();
95             while (!cursor.isAfterLast()){
96                 recipes.add(cursor.getRecipe());
97                 cursor.moveToNext();
98             }
99         } finally { cursor.close(); }
100        return recipes;
101    }
102
103    public List<Recipe> getRecipesVisibles(){
104        List<Recipe> recipes=this.getRecipes();
105        List<Recipe> recipeloop=this.getRecipes();
106        for(Recipe r:recipeloop){
107            if (!r.isVisible()) recipes.remove(r);
108        }
109    }

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```

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

```

```
139         return values;
140     }
141
142     public File getPhotoFile(Recipe r){
143         if (r==null) {return null;}
144         File filesDir= mContext.getFilesDir();
145         return new File(filesDir, r.getPhotoFilename());
146     }
147
148     public Boolean deleteImage(Recipe r){
149         Boolean success=false;
150         File filesDir= mContext.getFilesDir();
151         File im=new File(filesDir, r.getPhotoFilename());
152         if (im.exists()){
153             im.delete();
154             success=true;
155         }
156         return success;
157     }
158
159     public void clearCookBook(){
160         List<Recipe> recipes=new ArrayList<>();
161         recipes=getRecipes();
162         for (Recipe r:recipes){
163             deleteImage(r);
164             removeRecipe(r);
165         }
166     }
167
168     public void fillCookBook(List<Recipe> recipes){
169         for(Recipe r:recipes){
170             addRecipe(r);
171         }
172     }
173
174     public Boolean isThereMail(){
175         List<Recipe> recipes=this.getRecipes();
176         for(Recipe r:recipes){
177             if (r.IsMessage()) return true;
178         }
179         return false;
180     }
181 }
182 }
```

```

1 package com.fdx.cookbook;
2
3 import java.util.UUID;
4
5 public class ListMask {
6     private boolean SeasonFiltered;
7     private RecipeSeason SeasonState;
8     private boolean DifficultyFiltered;
9     private RecipeDifficulty DifficultyState;
10    private boolean TypeFiltered;
11    private RecipeType TypeState;
12    private boolean UserFiltered;
13    private User UserState;
14    private boolean IsNoteSorted;
15    private boolean IsSearched;
16    private boolean IsTitleAlphaSorted;
17    private String Query;
18
19    public ListMask(User u) {
20        SeasonFiltered=false;
21        DifficultyFiltered=false;
22        TypeFiltered=false;
23        UserFiltered=false;
24        IsNoteSorted=false;
25        IsSearched=false;
26        IsTitleAlphaSorted=false;
27        Query="";
28        UserState=u;
29        SeasonState=RecipeSeason.ALLYEAR;
30        DifficultyState=RecipeDifficulty.UNDEFINED;
31        TypeState=RecipeType.MAIN;
32    }
33
34    public void reset(){
35        SeasonFiltered=false;
36        DifficultyFiltered=false;
37        TypeFiltered=false;
38        UserFiltered=false;
39        IsNoteSorted=false;
40        IsSearched=false;
41        IsTitleAlphaSorted=false;
42        Query="";
43        SeasonState=RecipeSeason.ALLYEAR;
44        DifficultyState=RecipeDifficulty.UNDEFINED;
45        TypeState=RecipeType.MAIN;
46    }
47
48    public Integer toggleSun(){
49        Integer i;
50        if (SeasonFiltered){
51            SeasonFiltered=false;
52            SeasonState=RecipeSeason.ALLYEAR;
53            i=R.string.TSOFF;
54        } else {

```

```

55             SeasonFiltered=true;
56             SeasonState=RecipeSeason.SUMMER;
57             i=R.string.TSON;
58         }
59         return i;
60     }
61
62     public Integer toggleWinter(){
63         Integer i;
64         if (SeasonFiltered){
65             SeasonFiltered=false;
66             SeasonState=RecipeSeason.ALLYEAR;
67             i=R.string.TWOFF;
68         } else {
69             SeasonFiltered=true;
70             SeasonState=RecipeSeason.WINTER;
71             i=R.string.TWON;
72         }
73         return i;
74     }
75
76     public Integer toggleTitle(){
77         Integer i;
78         if (IsTitleAlphaSorted){
79             IsTitleAlphaSorted=false;
80             i=R.string.TTIOFF;
81         } else {
82             IsTitleAlphaSorted=true;
83             i=R.string.TTION;
84         }
85         return i;
86     }
87     public boolean isTitleSorted(){return IsTitleAlphaSorted;}
88
89     public Integer toggleUser(User u){
90         Integer i;
91         if (UserFiltered){
92             UserFiltered=false;
93             i=R.string.TROFF;
94         }else{
95             UserState=u;
96             UserFiltered=true;
97             i=R.string.TRON;
98         }
99         return i;
100    }
101
102    public Integer toggleSearch(String s){
103        Integer i;
104        if ((s==null) || (s.equals("")))
105        {
106            IsSearched=false;
107            Query="";
108            i=R.string.TSEOFF;
109        } else {
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```

109         IsSearched=true;
110         Query=s;
111         i=R.string.TSEON;
112     }
113     return i;
114 }
115
116 public Integer toggleDifficulty(RecipeDifficulty rd){
117     Integer i;
118     if (DifficultyFiltered){
119         DifficultyFiltered=false;
120         DifficultyState=RecipeDifficulty.UNDEFINED;
121         i=R.string.TDOFF;
122     }else{
123         DifficultyFiltered=true;
124         DifficultyState=rd;
125         i=R.string.TDON;
126     }
127     return i;
128 }
129
130 public Integer toggleType(RecipeType rt){
131     Integer i;
132     if (TypeFiltered){
133         TypeFiltered=false;
134         TypeState=RecipeType.MAIN;
135         i=R.string.TTOFF;
136     }else{
137         TypeFiltered=true;
138         TypeState=rt;
139         i=R.string.TTON;
140     }
141     return i;
142 }
143
144 public Integer toggleSortNote(){
145     Integer i;
146     if (IsNoteSorted){
147         IsNoteSorted=false;
148         i=R.string.TNOFF;
149     }else{
150         IsNoteSorted=true;
151         i=R.string.TNON;
152     }
153     return i;
154 }
155
156 public boolean isNoteSorted(){return IsNoteSorted;}
157
158 public boolean isRecipeSelected(Recipe r){
159     boolean b=false;
160     if (!r.isVisible()) return false;
161     if (SeasonFiltered) {
162         if (SeasonState==RecipeSeason.SUMMER) b=(r.getSeason()==

```

```

162 RecipeSeason.WINTER);
163         if (SeasonState==RecipeSeason.WINTER) b=(r.getSeason()==
164             RecipeSeason.SUMMER);
165         if (b) return false;
166     }
167     if (DifficultyFiltered){
168         if (r.getDifficulty()!=DifficultyState) return false;
169     }
170     if (TypeFiltered){
171         if (r.getType()!=TypeState) return false;
172     }
173     if (UserFiltered){
174         if (!r.getOwner().IsEqual(UserState)) return false;
175     }
176     if (IsSearched){
177         if (!r.containQuery(Query)) return false;
178     }
179     return true;
180 }
181 public String convertToString(){
182     String s,sep=";";
183     s=(SeasonFiltered ? "Y":"N")+sep; //0
184     s+=SeasonState.toString()+sep; //1
185     s+=(DifficultyFiltered ? "Y":"N")+sep; //2
186     s+=DifficultyState.toString()+sep; //3
187     s+=(TypeFiltered ? "Y":"N")+sep; //4
188     s+=TypeState.toString()+sep; //5
189     s+=(IsNoteSorted ? "Y":"N")+sep; //6
190     s+=(IsTitleAlphaSorted ? "Y":"N")+sep; //7
191     s+=(IsSearched ? "Y":"N")+sep; //8
192     s+=Query+sep; //9
193     s+=(UserFiltered ? "Y":"N")+sep; //10
194     s+=UserState.getFamily()+sep; //11
195     s+=UserState.getName()+sep; //12
196     s+=UserState.getId().toString(); //13
197     return s;
198 }
199
200 public void updateFromString(String s){
201     String sep=";";
202     String[] tokens = s.split(sep);
203     if (tokens.length<14) return;
204     SeasonFiltered=( tokens[0].equals("Y")? true:false);
205     SeasonState=RecipeSeason.valueOf(tokens[1]);
206     DifficultyFiltered=( tokens[2].equals("Y")? true:false);
207     DifficultyState=RecipeDifficulty.valueOf(tokens[3]);
208     TypeFiltered=( tokens[4].equals("Y")? true:false);
209     TypeState=RecipeType.valueOf(tokens[5]);
210     IsNoteSorted=( tokens[6].equals("Y")? true:false);
211     IsTitleAlphaSorted=( tokens[7].equals("Y")? true:false);
212     IsSearched=( tokens[8].equals("Y")? true:false);
213     Query=tokens[9];
214     UserFiltered=( tokens[10].equals("Y")? true:false);

```

```
215     UserState=new User(tokens[11], tokens[12]);  
216     UserState.setId(UUID.fromString(tokens[13]));  
217 }  
218 }  
219
```

```
1 package com.fdx.cookbook;
2
3 public enum RecipeType {
4     APERITIF, STARTER, MAIN, DESSERT, SIDE, OTHER;
5
6     private static RecipeType[] list=RecipeType.values();
7
8     public static RecipeType getType(int i){
9         return list[i];
10    }
11
12    public static int getIndex(RecipeType 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
```

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

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

```

1 package com.fdx.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.net.HttpURLConnection;
19 import java.net.MalformedURLException;
20 import java.net.URL;
21 import java.net.URLEncoder;
22 import java.text.DecimalFormat;
23 import java.text.SimpleDateFormat;
24 import java.util.ArrayList;
25 import java.util.Date;
26 import java.util.HashMap;
27 import java.util.List;
28 import java.util.Map;
29 import java.util.UUID;
30
31 public class NetworkUtils {
32     private SessionInfo mSession;
33     private static final String TAG = "CB_NetworkUtils";
34     private static final String MYSQLDATEFORMAT="yyyy-MM-dd HH:mm:ss";
35
36     public NetworkUtils(Context c) {
37         mSession=SessionInfo.get(c);
38     }
39
40     public String sendPostRequestJson(String requestURL,
41                                     HashMap<String, String>
42                                     postDataParams) {
43
44         URL url;
45         try {
46             url = new URL(requestURL);
47             HttpURLConnection conn = (HttpURLConnection) url.
48             openConnection();
49             conn.setReadTimeout(mSession.getReadTimeout());
50             conn.setConnectTimeout(mSession.getConnectTimeout());
51             conn.setRequestMethod("POST");
52             conn.setDoInput(true);
53             conn.setDoOutput(true);
54             OutputStream os = conn.getOutputStream();
55
56             BufferedWriter writer = new BufferedWriter(
57                 new OutputStreamWriter(os, "UTF-8"));
58             writer.write(postDataParams.toString());
59             writer.flush();
60             writer.close();
61             int responseCode = conn.getResponseCode();
62             if (responseCode == 200) {
63                 String line;
64                 BufferedReader reader =
65                     new BufferedReader(new InputStreamReader(
66                         conn.getInputStream()));
67                 while ((line = reader.readLine()) != null) {
68                     Log.d(TAG, line);
69                 }
70                 reader.close();
71             }
72             conn.disconnect();
73         } catch (MalformedURLException e) {
74             e.printStackTrace();
75         } catch (IOException e) {
76             e.printStackTrace();
77         }
78     }
79
80     public String sendGetRequestJson(String requestURL,
81                                     HashMap<String, String>
82                                     postDataParams) {
83
84         URL url;
85         try {
86             url = new URL(requestURL);
87             HttpURLConnection conn = (HttpURLConnection) url.
88             openConnection();
89             conn.setReadTimeout(mSession.getReadTimeout());
90             conn.setConnectTimeout(mSession.getConnectTimeout());
91             conn.setRequestMethod("GET");
92             conn.setDoInput(true);
93             conn.setDoOutput(false);
94             conn.connect();
95             int responseCode = conn.getResponseCode();
96             if (responseCode == 200) {
97                 String line;
98                 BufferedReader reader =
99                     new BufferedReader(new InputStreamReader(
100                        conn.getInputStream()));
101                 while ((line = reader.readLine()) != null) {
102                     Log.d(TAG, line);
103                 }
104                 reader.close();
105             }
106             conn.disconnect();
107         } catch (MalformedURLException e) {
108             e.printStackTrace();
109         } catch (IOException e) {
110             e.printStackTrace();
111         }
112     }
113 }
```

```

53             BufferedWriter writer = new BufferedWriter(
54                     new OutputStreamWriter(os, "UTF-8"));
55             writer.write(this.getPostDataString(postDataParams));
56             writer.flush();
57             writer.close();
58             os.close();
59             StringBuilder sb = new StringBuilder();
60             BufferedReader bufferedReader = new BufferedReader(new
61             InputStreamReader(conn.getInputStream()));
62             String json;
63             while ((json = bufferedReader.readLine()) != null) {
64                 sb.append(json + "\n");
65             }
66             return sb.toString().trim();
67         } catch (Exception e) {
68             Log.d(TAG, ">" + e);
69             return null;
70         }
71     }
72     private String getPostDataString(HashMap<String, String> params)
73     {
74         StringBuilder result = new StringBuilder();
75         boolean first = true;
76         for (Map.Entry<String, String> entry : params.entrySet()) {
77             if (first)
78                 first = false;
79             else
80                 result.append("&");
81             try {result.append(URLEncoder.encode(entry.getKey(), "UTF
8-8"));
82                 result.append("=");
83                 result.append(URLEncoder.encode(entry.getValue(), "UTF-8"
84 ));}
85             } catch (Exception e){
86                 //fdx Log.d(TAG, "Pb with >" +entry.getKey() + ":" +entry
87                 .getValue() + "<");
88             }
89         }
90         return result.toString();
91     }
92     public List<Comment> parseCommentsOfRecipe(String json){
93         Comment c;
94         List<Comment> cs=new ArrayList<>();
95         if ((json==null)|| (json.equals("")))
96             return null;
97         try {
98             JSONArray jarr1=new JSONArray(json);
99             for (int i=0; i<jarr1.length(); i++){
100                 JSONObject obj = jarr1.getJSONObject(i);
101                 c=parseObjectComment(obj);
102                 if (c!=null) cs.add(c);
103             }
104         } catch (Exception e){
105             //fdx Log.d(TAG, "Failure in parsing JSON Array Comments
106             "+e);
107         }
108     }

```

```

101         return null;
102     }
103     return cs;
104 }
105
106 public Comment parseObjectComment(JSONObject obj){
107     try {
108         UUID uuid=UUID.fromString(obj.getString("id_user"));
109         User u=new User(obj.getString("family"), obj.getString("name")
110 ) );
111         u.setId(uuid);
112         String s=obj.getString("date_comment");
113         Date date=new SimpleDateFormat(MYSQLDATEFORMAT).parse(s);
114         return new Comment(obj.getString("comment"),u,date);
115     catch (Exception e){
116         //fdx Log.d(TAG, "Failure in parsing JSONObject Comments
117         "+e);
118         return null;
119     }
120     }
121     public List<Note> parseNotesOfRecipe(String json){
122         Note n;
123         List<Note> ns=new ArrayList<>();
124         if ((json==null)|| (json.equals("")))) return null;
125         try {
126             JSONArray jar1=new JSONArray(json);
127             for (int i=0; i<jar1.length(); i++){
128                 JSONObject obj = jar1.getJSONObject(i);
129                 n=parseObjectNote(obj);
130                 if (n!=null) ns.add(n);
131             }
132         } catch (Exception e){
133             //fdx Log.d(TAG, "Failure in parsing JSON Array Comments
134             "+e);
135             return null;
136         }
137         public Note parseObjectNote(JSONObject obj){
138             try {
139                 // uid=UUID.fromString(obj.getString("id_recipe"));
140                 UUID uuid=UUID.fromString(obj.getString("id_user"));
141                 User u=new User(obj.getString("family"), obj.getString("name") );
142                 u.setId(uuid);
143                 String s=obj.getString("date_note");
144                 Date date=new SimpleDateFormat(MYSQLDATEFORMAT).parse(s);
145                 return new Note(obj.getInt("note"),u,date);
146             catch (Exception e){
147                 //fdx Log.d(TAG, "Failure in parsing JSONObject Note : "+
148                 e);
149                 return null;
150             }

```

```

150     }
151     public Recipe parseObjectRecipeStamp(JSONObject obj) {
152         try {
153             //----- uuid and users
154             UUID uuid = UUID.fromString(obj.getString("id_recipe"));
155             Recipe r = new Recipe(uuid);
156             uuid = UUID.fromString(obj.getString("id_owner"));
157             User u = new User(uuid);
158             r.setOwner(u);
159             //dates
160             Date date;
161             String s1 = obj.getString("lastupdate_recipe");
162             if (s1==null) return null;
163             if ((!s1.equals("null"))&&(s1.length()>5)) {
164                 date = new SimpleDateFormat(MYSQLDATEFORMAT).parse(s1
165             );
166                 r.setDate(date);
167             } else {return null;}
168             s1 = obj.getString("lastupdate_photo");
169             if ((!s1.equals("null"))&&(s1.length()>5)) {
170                 date = new SimpleDateFormat(MYSQLDATEFORMAT).parse(s1
171             );
172                 r.setDatePhoto(date);
173             }
174             s1=obj.getString("message");
175             if ((s1==null)|| (s1.equals("null"))) s1="";
176             r.setMessage(s1);
177             r.setStatus(StatusRecipe.valueOf(obj.getString("status"))
178             );
179             s1 = obj.getString("id_from");
180             if ((!s1.equals("null"))&&(s1.length()>5)) {
181                 uuid = UUID.fromString(s1);
182                 u = new User(uuid);
183                 r.setOwner(u);
184             }
185             catch (Exception e){
186                 //fdx Log.d(TAG, "Failure in parsing JSONObject Recette
187                 Stamp : "+e);
188             }
189         }
190         public List<Recipe> parseStampsTiers(String json) {
191             Recipe r;
192             List<Recipe> rs=new ArrayList<>();
193             if ((json==null)|| (json.equals(""))) return null;
194             try {
195                 JSONArray jarr1=new JSONArray(json);
196                 for (int i=0; i<jarr1.length(); i++) {
197                     JSONObject obj = jarr1.getJSONObject(i);
198                     r=parseObjectRecipeStamp(obj);
199                     if (r!=null) rs.add(r);

```

```

200             }
201         } catch (Exception e) {
202             //fdx Log.d(TAG, "Failure in parsing JSON Array Comments
203             "+e);
204             return null;
205         }
206         return rs;
207     }
208
209     public boolean parseObjectRecipe(Recipe r, JSONObject obj,
210         boolean withphoto, boolean full){
211         try {
212             UUID uuid;
213             String s1, s2;
214             User u;
215             if (full) {
216                 uuid = UUID.fromString(obj.getString("id_owner"));
217                 s1 = obj.getString("owner_family");
218                 s2 = obj.getString("owner_name");
219                 u = new User(s1, s2);
220                 u.setId(uuid);
221                 r.setOwner(u);
222                 s1=obj.getString("message");
223                 if ((s1==null)|| (s1.equals("null"))) s1="";
224                 r.setMessage(s1);
225                 r.setStatus(StatusRecipe.valueOf(obj.getString(
226                     "status")));
227                 s1 = obj.getString("id_from");
228                 if ((!s1.equals("null"))&&(s1.length()>5)&&(s1!=null)
229             ) {
230                 uuid = UUID.fromString(s1);
231                 s1 = obj.getString("from_family");
232                 s2 = obj.getString("from_name");
233                 u = new User(s1, s2);
234                 u.setId(uuid);
235                 r.setUserFrom(u);
236             }
237             //----- dates
238             Date date;
239             s1 = obj.getString("lastupdate_recipe");
240             if ((!s1.equals("null"))&&(s1.length()>5)&&(s1!=null)) {
241                 date = new SimpleDateFormat(MYSQLDATEFORMAT).parse(s1
242             );
243                 r.setDate(date);
244             } else {return false;}
245             s1 = obj.getString("lastupdate_photo");
246             if ((!s1.equals("null"))&&(s1.length()>5)&&(s1!=null)) {
247                 date = new SimpleDateFormat(MYSQLDATEFORMAT).parse(s1
248             );
249                 r.setDatePhoto(date);
250             }
251             //----- titre, source x2, nbpers
252             s1 = obj.getString("title");

```

```

248         URL url;
249         if (s1==null) return false;
250         if (s1.equals("null")) return false;
251         r.setTitle(s1);
252         r.setSource(obj.getString("source"));
253         s1 = obj.getString("source_url");
254         if (!s1.equals("null")&&(s1.length()>5)&&(s1!=null)) {
255             try {
256                 url = new URL(s1);
257                 r.setSource_url(url);
258             } catch (MalformedURLException e) {
259                 //fdx Log.d(TAG, "getURL from cookbook download
failed in parse recipe");
260             }
261         }
262         int nbp=obj.getInt("nb_pers");
263         if (nbp==0) return false;
264         r.setNbPers(nbp);
265         //----- Etapes and ing
266         DecimalFormat formatter = new DecimalFormat("00");
267         for (int i = 0; i < r.getNbStepMax(); i++) {
268             s1 = "etape" + formatter.format(i + 1);
269             s2=obj.getString(s1);
270             if (!s2.equals("null")) {
271                 r.setStep(i + 1, s2);}
272         }
273         for (int i = 0; i < r.getNbIngMax(); i++) {
274             s1 = "ing" + formatter.format(i + 1);
275             s2=obj.getString(s1);
276             if (!s2.equals("null")) {
277                 r.setIngredient(i + 1, s2);}
278         }
279         //----- enum
280         r.setSeason(RecipeSeason.valueOf(obj.getString("season"))
);
281         r.setDifficulty(RecipeDifficulty.valueOf(obj.getString("difficulty")));
282         r.setType(RecipeType.valueOf(obj.getString("type")));
283         // ----- photo
284         CookBook cb = CookBook.get(mSession.getContext());
285         File f=cb.getPhotoFile(r);
286         if (withphoto) {
287             s1 = obj.getString("photo");
288             if ((!s1.equals("null"))&&(!s1.equals(""))&&(s1!=null
)) {
289                 Bitmap bm=PictureUtils.getBitmapFromString(s1);
290                 if (f.exists()){
291                     //fdx Log.d(TAG, "file " + f.toString()+"
ecrasée dans parsing recipe !");
292                     f.delete();
293                 }
294                 try {
295                     if(!f.createNewFile()) {
296                         //fdx Log.d(TAG, "Error in creating file

```

```

296     "+f.toString());
297         }
298     } catch (IOException e) {
299         //fdx Log.d(TAG, "Error in creating file "+f.
300         //toString() + ":" + e);
301     }
302     try {
303         FileOutputStream out = new FileOutputStream(f
304 );
305         bm.compress(Bitmap.CompressFormat.JPEG, 100,
306         out);
307         out.flush();
308         out.close();
309     } catch (Exception e) {
310         //fdx Log.d(TAG, "Storing bitmap error " + e
311     );
312     }
313     return true;
314 }
315 catch (Exception e){
316     //fdx Log.d(TAG, "Failure in parsing JSONObject Recette
317     : "+e);
318     return false;
319 }
320
321 public boolean saveBmpInRecipe(Bitmap bmp, Recipe r){
322     CookBook cb = CookBook.get(mSession.getContext());
323     File f=cb.getPhotoFile(r);
324     if (f.exists()) f.delete();
325     try {
326         if(!f.createNewFile()) {
327             //fdx Log.d(TAG, "Error in creating file "+f.
328             //toString());
329         }
330         FileOutputStream out = new FileOutputStream(f);
331         bmp.compress(Bitmap.CompressFormat.JPEG, 100, out);
332         out.flush();
333         out.close();
334     return true;
335     } catch (Exception e) {
336         //fdx Log.d(TAG, "Storing bitmap error " + e);
337         return false;
338     }
339
340
341 }
342

```

```

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

```

```
51
52     public static String getStringImage(Bitmap bmp){
53         ByteArrayOutputStream baos = new ByteArrayOutputStream();
54         bmp.compress(Bitmap.CompressFormat.JPEG, 100, baos);
55         byte[] imageBytes = baos.toByteArray();
56         String encodedImage = Base64.encodeToString(imageBytes,
57             Base64.DEFAULT);
58         return encodedImage;
59     }
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     }
66 }
```

```
1 package com.fdx.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
```

```

1 package com.fdx.cookbook;
2
3 import android.app.Activity;
4 import android.content.Context;
5 import android.graphics.Bitmap;
6 import android.os.AsyncTask;
7 import android.support.v7.app.AppCompatActivity;
8 import android.util.Log;
9 import android.widget.Toast;
10
11 import org.json.JSONArray;
12 import org.json.JSONObject;
13
14 import java.io.File;
15 import java.io.InputStream;
16 import java.net.HttpURLConnection;
17 import java.net.URL;
18 import java.text.DateFormat;
19 import java.text.DecimalFormat;
20 import java.text.SimpleDateFormat;
21 import java.util.ArrayList;
22 import java.util.Calendar;
23 import java.util.Date;
24 import java.util.HashMap;
25 import java.util.List;
26 import java.util.UUID;
27
28 enum AsynCallFlag { NEWRECIPE, NEWPHOTO, NEWCOMMENT, NEWRATING,
   GLOBALSYNC, DELETERECIPE}
29
30 class AsyncCallClass extends AsyncTask<Void, Integer, Boolean> {
31     private static final String TAG = "CB_AsynCalls";
32     private static final String PHP204 = "return204.php";
33     private static final String PHPUPDATECREATE = "
   updateorcreaterecipe.php";
34     private static final String PHPUPUPLOADPHOTO = "
   uploadphotointorecipe.php";
35     private static final String PHPDELETERECIPE = "deletereceipt.php";
36     private static final String PHPGETCOMMENTSOFRECIPE = "
   getcommentsofrecipie.php";
37     private static final String PHPADDCOMMENTTORECIPE = "
   addcommentwithdate.php";
38     private static final String PHPADDNOTETORECIPE = "addnotewithdate.
   php";
39     private static final String PHPGETNOTESOFREREIPE = "
   getnotesofrecipie.php";
40     private static final String PHPGETSTAMPSTIERS = "
   getrecipestampstiers.php";
41     private static final String PHPGETRECIPEFROMCB = "getrecipetromcb.
   php";
42     private static final String PHPGETRECIPEFROMCBWITHPHOTO = "
   getrecipetromcbwithphoto.php";
43     private static final String PHPACCEPTRECIPE = "acceptrecipie.php";
44     private static final String MYSQLDATEFORMAT="yyyy-MM-dd HH:mm:ss";

```

```

45     private static Context mContext;
46     private SessionInfo mSession;
47     private NetworkUtils mNetUtils;
48     private CookBook mCookbook;
49
50     public AsyncCallClass(Context context) {
51         mContext=context;
52         mCookbook = CookBook.get(mContext);
53         mSession = SessionInfo.get(mContext);
54         mNetUtils = new NetworkUtils(mContext);
55     }
56
57     @Override
58     protected Boolean doInBackground(Void... params) {
59         Boolean isChanged=false;
60         if (!test204()) {
61             return isChanged;
62         }
63         deBugShow("----- Start Sync-----");
64         if (syncTiersRecipe(mSession.getUser())) isChanged=true;
65         List<Recipe> mrecipes=mCookbook.getRecipes();
66         for(Recipe r:mrecipes) {
67             if (r.getOwnerIdString().equals(mSession.getUser().getId()
68 .toString())) {
69                 if (r.getTS(AsynCallFlag.NEWRECIPE) == 1) {
70                     if (uploadRecipe(r)) {
71                         deBugShow("Recette " + r.getTitle() + " mise à
72 jour");
73                         r.updateTS(AsynCallFlag.NEWRECIPE, false);
74                         mCookbook.updateRecipe(r);
75                         isChanged=true;
76                     } else {
77                         deBugShow( "Recette " + r.getTitle() + " non
78 mise à jour");
79                     }
80                 }
81                 if (r.getTS(AsynCallFlag.NEWPHOTO) == 1) {
82                     if (uploadPhoto(r)) {
83                         deBugShow( "Recette Photo " + r.getTitle() +
84 " mise à jour");
85                         r.updateTS(AsynCallFlag.NEWPHOTO, false);
86                         mCookbook.updateRecipe(r);
87                         isChanged=true;
88                     }
89                 }
90                 if (syncCommentsRecipe(r)) {
91                     deBugShow( "Comments de " + r.getTitle()+" updaté");
92                     isChanged=true;
93                     r.updateTS(AsynCallFlag.NEWCOMMENT, false);
94                     mCookbook.updateRecipe(r);
95                 }
96             }
97         }
98     }
99 
```

```

94
95         }
96         if (syncNotesRecipe(r)) {
97             deBugShow( "Notes de " + r.getTitle() +" updaté");
98             isChanged=true;
99             r.updateTS(AsynCallFlag.NEWRATING, false);
100            mCookbook.updateRecipe(r);
101        }
102        if (r.IsMarkedDeleted()){
103            if (deleteRecipeFromCB(r)) {
104                deBugShow( "Recette effacée : " + r.getTitle());
105                mCookbook.removeRecipe(r);
106                mCookbook.deleteImage(r);
107                isChanged=true;
108            } else{
109                deBugShow("Recette " + r.getTitle()+" non effacée
110            }
111        }
112        return isChanged;
113    }

114

115    @Override
116    protected void onPreExecute() {
117        super.onPreExecute();
118    }

119

120    @Override
121    protected void onPostExecute(Boolean isChanged) {
122        super.onPostExecute(isChanged);
123        if (isChanged)
124            Toast.makeText(mContext, mContext.getString(R.string.P1_sync),
125 , Toast.LENGTH_SHORT).show();
126    }

127    private void deBugShow(String s){
128        //fdx Log.d(TAG, s);
129    }

130

131    private Boolean test204() {
132        try {
133            URL url = new URL(mSession.getURLPath() + PHP204);
134            HttpURLConnection conn = (HttpURLConnection) url.
135            openConnection();
136            conn.setConnectTimeout(mSession.getConnectTimeout());
137            conn.setReadTimeout(mSession.getReadTimeout());
138            conn.setRequestMethod("HEAD");
139            InputStream in = conn.getInputStream();
140            int status = conn.getResponseCode();
141            in.close();
142            conn.disconnect();
143            return (status == HttpURLConnection.HTTP_NO_CONTENT);
144        } catch (Exception e) {
145            deBugShow( "Test 204 : " + e);
146        }
147    }

```

```

145         return false;
146     }
147 }
148
149 private Boolean uploadRecipe(Recipe r) {
150     HashMap<String, String> data = new HashMap<>();
151     String s1;
152     DateFormat dateFormat = new SimpleDateFormat(MYSQLDATEFORMAT)
153 ;
154     data.put("idrecipe", r.getId().toString());
155     data.put("iduser", r.getOwner().getId().toString());
156     data.put("title", r.getTitle());
157     data.put("source", r.getSource());
158     data.put("sourceurl", r.getSource_url_name());
159     DecimalFormat formatter = new DecimalFormat("00");
160     data.put("nbpers", formatter.format(r.getNbPers()));
161     s1 = dateFormat.format(r.getDate());
162     data.put("date", s1);
163     for (int i = 0; i < r.getNbStepMax(); i++) {
164         s1 = "etape" + formatter.format(i + 1);
165         data.put(s1, r.getStep(i + 1));
166     }
167     for (int i = 0; i < r.getNbIngMax(); i++) {
168         s1 = "ing" + formatter.format(i + 1);
169         data.put(s1, r.getIngredient(i + 1));
170     }
171     data.put("season", r.getSeason().toString());
172     data.put("difficulty", r.getDifficulty().toString());
173     data.put("type", r.getType().toString());
174     String result = mNetUtils.sendPostRequestJson(mSession.
getURLPath() + PHPUPDATECREATE, data);
175     if (result==null) return false;
176     if (!result.trim().equals("1")) {
177         deBugShow( "Retour de "+PHPUPDATECREATE+" =>" +result+"<" )
178         ;
179     }
180
181     private Boolean uploadPhoto(Recipe r) {
182         String s1;
183         File file = mCookbook.getPhotoFile(r);
184         Bitmap bitmap = PictureUtils.getBitmap(file.getPath());
185         if (bitmap == null) {
186             deBugShow( "Pas de bitmap pour " + r.getTitle());
187             return false;
188         }
189         String uploadImage = PictureUtils.getStringImage(bitmap);
190         HashMap<String, String> data = new HashMap<>();
191         data.put("idrecipe", r.getId().toString());
192         if (uploadImage==null) return false;
193         data.put("image", uploadImage);
194         DateFormat dateFormat = new SimpleDateFormat(MYSQLDATEFORMAT)
195 ;

```

```

195         s1 = dateFormat.format(r.getDatePhoto());
196         data.put("date", s1);
197         String result = mNetUtils.sendPostRequestJson(mSession.
198             getURLPath() + PHPUPUPLOADPHOTO, data);
199         if (result==null) return false;
200         if (!result.trim().equals("1")) {
201             deBugShow( "Retour de "+ PHPUPUPLOADPHOTO+" = "+result);
202             return false;
203         }
204         private Boolean deleteRecipeFromCB(Recipe r) {
205             HashMap<String, String> data = new HashMap<>();
206             data.put("idrecipe", r.getId().toString());
207             data.put("iduser", mSession.getUser().getId().toString());
208             String result = mNetUtils.sendPostRequestJson(mSession.
209                 getURLPath() + PHPDELETERECIPE, data);
210             if (result==null) return false;
211             if (!result.trim().equals("1")) {
212                 deBugShow( "Retour de "+ PHPDELETERECIPE+" = "+result);
213                 return false;
214             }
215
216         private Boolean syncCommentsRecipe(Recipe r) {
217             boolean ret=false;
218             HashMap<String, String> data = new HashMap<>();
219             data.put("idrecipe", r.getId().toString());
220             String result = mNetUtils.sendPostRequestJson(mSession.
221                 getURLPath() + PHPGETCOMMENTSOFRECIPE, data);
222             List<Comment> downloadedComments=mNetUtils.
223             parseCommentsOfRecipe(result);
224             if (downloadedComments==null) downloadedComments=new
225             ArrayList<>();
226             List<Comment> recipeComments=r.getComments();
227             if (recipeComments==null) recipeComments=new ArrayList<>();
228             //----- boucle local
229             List<Comment> cloc= new ArrayList<>();
230             Comment c,ci;
231             if (!recipeComments.isEmpty()){
232                 for (int i = 0; i < recipeComments.size(); i++){
233                     ci=recipeComments.get(i);
234                     c=new Comment(ci.getText(),ci.getUser(),ci.getDate());
235                     if (downloadedComments.isEmpty()) {cloc.add(c);} else
236                     {
237                         if (downloadedComments.indexOf(c)==-1) cloc.add(c);
238                     }
239                 }
240             //----- boucle serveur
241             List<Comment> cser= new ArrayList<>();
242             if (!downloadedComments.isEmpty()){
243                 for (int i = 0; i < downloadedComments.size(); i++){
244                     ci=downloadedComments.get(i);
245                     c=new Comment(ci.getText(),ci.getUser(),ci.getDate());
246                     if (recipeComments.isEmpty()) {cser.add(c);} else {

```

```

243             if (recipeComments.indexOf(c)==-1) cser.add(c); }
244         }
245     }
246     if (!cser.isEmpty()){
247         for (int i = 0; i < cser.size(); i++){
248             r.addComment(cser.get(i));
249         }
250         if (cser.size()>0) {
251             mCookbook.updateRecipe(r);
252             ret=true;
253         }
254     }
255     if (!cloc.isEmpty()) {
256         if (!uploadComments(r,cloc)) {ret=false;}
257         else {ret=true;}
258     }
259     return ret;
260 }
261
262 private Boolean uploadComments(Recipe r, List<Comment> cs){
263     if (cs==null) return false;
264     if (cs.size()==0) return true;
265     HashMap<String, String> data = new HashMap<>();
266     DateFormat dateFormat = new SimpleDateFormat(MYSQLDATEFORMAT)
267 ;
268     String s1;
269     boolean b=true;
270     for (Comment c:cs) {
271         data.clear();
272         data.put("idrecipe", r.getId().toString());
273         data.put("idfrom", c.getUser().getId().toString());
274         data.put("comment", c.getText());
275         s1 = dateFormat.format(c.getDate());
276         data.put("date",s1 );
277         String result = mNetUtils.sendPostRequestJson(mSession.
278             getURLPath() + PHPADDCOMMENTTORECIPE, data);
279         if (result==null) b=false;
280         if (!result.equals("1")) {
281             deBugShow( "Retour de "+ PHPADDCOMMENTTORECIPE+" = "+
282             result);
283             b=false;
284         }
285     }
286     return b;
287 }
288 private Boolean syncNotesRecipe(Recipe r) {
289     boolean ret=false;
290     HashMap<String, String> data = new HashMap<>();
291     data.put("idrecipe", r.getId().toString());
292     String result = mNetUtils.sendPostRequestJson(mSession.
293         getURLPath() + PHPGETNOTESOFREREIPE, data);
294     List<Note> downloadedNotes=mNetUtils.parseNotesOfRecipe(
295     result);
296     if (downloadedNotes==null) downloadedNotes=new ArrayList<>();
297     List<Note> recipeNotes=r.getNotes();

```

```

292         if (recipeNotes==null) recipeNotes=new ArrayList<>();
293         //----- boucle local
294         List<Note> cloc= new ArrayList<>();
295         Note c,ci;
296         if (!recipeNotes.isEmpty()){
297             for (int i = 0; i < recipeNotes.size(); i++){
298                 ci=recipeNotes.get(i);
299                 c=new Note(ci.getNote(),ci.getUser(),ci.getDate());
300                 if (downloadedNotes.isEmpty()) {
301                     cloc.add(c);
302                 } else {
303                     if (downloadedNotes.indexOf(c)==-1) cloc.add(c);
304                 }
305             }
306             //----- boucle serveur
307             List<Note> cser= new ArrayList<>();
308             if (!downloadedNotes.isEmpty()){
309                 for (int i = 0; i < downloadedNotes.size(); i++){
310                     ci=downloadedNotes.get(i);
311                     c=new Note(ci.getNote(),ci.getUser(),ci.getDate());
312                     if (recipeNotes.isEmpty()){
313                         cser.add(c);
314                     } else{
315                         if (recipeNotes.indexOf(c)==-1) cser.add(c);
316                     }
317                 }
318                 if (!cser.isEmpty()){
319                     for (int i = 0; i < cser.size(); i++){
320                         r.addNote(cser.get(i));
321                     }
322                     if (cser.size()>0) {
323                         mCookbook.updateRecipe(r);
324                         ret=true;
325                     }
326                 }
327                 if (!cloc.isEmpty()) {
328                     if (!uploadNotes(r,cloc)) {ret=false;}
329                     else {ret=true;}
330                 }
331             return ret;
332         }
333         private Boolean uploadNotes(Recipe r, List<Note> cs){
334             if (cs==null) return false;
335             if (cs.size()==0) return true;
336             HashMap<String, String> data = new HashMap<>();
337             DateFormat dateFormat = new SimpleDateFormat(MYSQLDATEFORMAT)
338 ;
339             DecimalFormat formatter = new DecimalFormat("00");
340             String sl;
341             boolean b=true;
342             for (Note c:cs) {
343                 data.clear();
344                 data.put("idrecipe", r.getId().toString());
345                 data.put("idfrom", c.getUser().getId().toString());
346

```

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

```

388                     if (updateRecipe(rloc, withphoto)) {
389                         mCookbook.updateRecipe(rloc);
390                         deBugShow( "Recette "+ rloc.getTitle()+""
391                                     updateée (with photo :"+withphoto+"));
392                                     ret=true;
393                                 }
394                                 else continue;
395                             }
396                         }
397                     }
398                     return ret;
399                 }
400             private boolean IsAfterAndNotNull(Date ds, Date dl) {
401                 Calendar c=Calendar.getInstance();
402                 c.set(2000,0,1,0, 0);
403                 Date d0=c.getTime();
404                 boolean morerecent=(ds.compareTo(dl)==1);
405                 boolean isnotnull=(ds.compareTo(d0)==1);
406                 return morerecent && isnotnull;
407             }
408
409             private Recipe downloadRecipe(Recipe ref){
410                 if (ref==null) return null;
411                 HashMap<String, String> data = new HashMap<>();
412                 data.put("idrecipe", ref.getId().toString().trim());
413                 data.put("iduser", mSession.getUser().getId().toString().trim()
414 ());
414                 String result = mNetUtils.sendPostRequestJson(mSession.
415 getURLPath()+PHPGETRECIPEFROMCBWITHPHOTO,data);
416                 Recipe r=new Recipe();
417                 try {
418                     JSONArray jarr1 = new JSONArray(result);
419                     if (jarr1.length()==0){
420                         deBugShow( " No json objects from download <"+ref.
421 getId()+">");
422                         return null;
423                     } else {
424                         if (jarr1.length()>1) deBugShow( " Recette non unique
425 dans cookbook : <"+ref.getId()+">");
426                         JSONObject obj = jarr1.getJSONObject(0);
427                         r = new Recipe(UUID.fromString(obj.getString("id_recipe")));
428                         if (!mNetUtils.parseObjectRecipe(r,obj, true, true))
429                             return null;
430                         }
431                     } catch (Exception e) {
432                         deBugShow( " Error parsing CB in downloadRecipe" + e);
433                     }
434                     return r;
435                 }
436             private Boolean updateRecipe(Recipe ref, boolean withphoto){
437                 if (ref==null) return null;
438                 HashMap<String, String> data = new HashMap<>();

```

```
435         data.put("idrecipe", ref.getId().toString().trim());
436         data.put("withphoto", (withphoto)?"1":"0");
437         String result = mNetUtils.sendPostRequestJson(mSession.
        getURLPath()+ PHPGETRECIPEFROMCB,data);
438         Recipe r=new Recipe();
439         try {
440             JSONArray jarr1 = new JSONArray(result);
441             if (jarr1.length()!=1){
442                 deBugShow( " Number of json objects from
        downloadRecipes =" + jarr1.length()+" !");
443                 return null;
444             } else {
445                 JSONObject obj = jarr1.getJSONObject(0);
446                 if (!mNetUtils.parseObjectRecipe(ref,obj, withphoto,
        false)) {
447                     deBugShow( " Null recipe from JSON object" +
        result);
448                     return false;
449                 }
450             }
451         } catch (Exception e) {
452             deBugShow( " Error parsing CB in downloadRecipe" + e);
453             return false;
454         }
455         return true;
456     }

457     private Boolean recipeAccepted(Recipe r){
458         if (r==null) return null;
459         HashMap<String, String> data = new HashMap<>();
460         data.put("idrecipe", r.getId().toString().trim());
461         data.put("iduser", mSession.getUser().getId().toString());
462         String result = mNetUtils.sendPostRequestJson(mSession.
        getURLPath()+ PHPACCEPTRECIPE,data);
463         if (!result.equals("1")) {
464             deBugShow( "Retour de "+ PHPACCEPTRECIPE+" = "+result);
465             return false;
466         }
467         return true;
468     }
469 }
470 }
```

```
1 package com.fdx.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.fdx.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.fdx.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 TYPE="type";
26            public static final String COMMENTS="comments";
27            public static final String STATUS="status";
28            public static final String NOTES="notes";
29            public static final String MESSAGE="message";
30            public static final String MESSAGE_FROM="messagefrom";
31            public static final String TS_RECIPE="tsrecipe";
32            public static final String TS_PHOTO="tsphoto";
33            public static final String TS_COMMENT="tscomment";
34            public static final String TS_NOTE="tsnote";
35        }
36    }
37 }
```

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

```

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

```

```

98         mMoto=(TextView) findViewById(R.id.splash_moto);
99         mMoto.setText(R.string.PO_moto);
100        mProgressBar=(ProgressBar) findViewById(R.id.splash_progBar);
101        mProgressBar.setProgress(0);
102        mEnterMessage=(TextView) findViewById(R.id.
103           splash_edit_message);
103        mEnterMessage.setText("");
104        mEnterFamilyLbl=(TextView) findViewById(R.id.
105           splash_edit_family_lbl);
105        mEnterFamilyLbl.setText(R.string.POLF);
106        mEnterFamily=(EditText) findViewById(R.id.splash_edit_family)
107 ;
107        mEnterMemberLbl=(TextView) findViewById(R.id.
108           splash_edit_member_lbl);
108        mEnterMemberLbl.setText(R.string.POLM);
109        mEnterMember=(EditText) findViewById(R.id.splash_edit_member)
109 ;
110        mEnterPwdLbl=(TextView) findViewById(R.id.splash_edit_pwd_lbl)
110 ;
111        mEnterPwd=(EditText) findViewById(R.id.splash_edit_pwd);
112        mEnterPwdLbl.setText(R.string.PO LP);
113        mNewSession=(Button) findViewById(R.id.splash_button_session)
113 ;
114        mNewMember=(Button) findViewById(R.id.splash_button_member);
115        mNewFamily=(Button) findViewById(R.id.splash_button_family);
116        if (mSession.IsReqNewSession()){
117            mFamilyEntered=mSession.getUser().getFamily();
118            mEnterFamily.setText(mFamilyEntered);
119            mMemberEntered=mSession.getUser().getName();
120            mEnterMember.setText(mMemberEntered);
121            mPwdEntered="";
122            mEnterPwd.setText(mPwdEntered);
123        } else {
124            mFamilyEntered="";
125            mEnterFamily.setText(mFamilyEntered);
126            mEnterFamily.setHint(R.string.PO HF);
127            mMemberEntered="";
128            mEnterMember.setText(mMemberEntered);
129            mEnterMember.setHint(R.string.PO HM);
130            mPwdEntered="";
131            mEnterPwd.setText(mPwdEntered);
132            mEnterPwd.setHint(R.string.PO HP);
133        }
134        mEnterMessage.setText("");
135        mNewSession.setText(R.string.PO BP);
136        mNewMember.setText(R.string.PO BM);
137        mNewFamily.setText(R.string.PO BF);
138        //updateTop();
139        mNetAnim=(ImageView) findViewById(R.id.net_anim);
140        mNetAnim.setBackgroundResource(R.drawable.network_animation);
141        mNetAnim.setVisibility(View.INVISIBLE);
142        frameNetAnim = (AnimationDrawable) mNetAnim.getBackground();
143        updateDisplayOnAsync(false);
144

```

```

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

```

```

190         @Override
191         public void afterTextChanged(Editable s) {}
192     });
193     mNewSession.setOnClickListener(new View.OnClickListener() {
194         @Override
195         public void onClick(View v) {
196             if(testConnectStatus()){
197                 mState=NEW_SESSION;
198                 updateDisplayOnAsync(true);
199                 goAsyncTasks();
200             } else {
201                 tc.testGo();
202             }
203         });
204     mNewMember.setOnClickListener(new View.OnClickListener() {
205         @Override
206         public void onClick(View v) {
207             if(testConnectStatus()){
208                 mState=NEW_MEMBER;
209                 updateDisplayOnAsync(true);
210                 goAsyncTasks();
211             } else {
212                 tc.testGo();
213             }
214         });
215     mNewFamily.setOnClickListener(new View.OnClickListener() {
216         @Override
217         public void onClick(View v) {
218             if(testConnectStatus()){
219                 mState=NEW_FAMILY;
220                 updateDisplayOnAsync(true);
221                 goAsyncTasks();
222             } else {
223                 tc.testGo();
224             }
225         });
226     }
227
228     public void ShowHidePass(View view){
229         if(view.getId()==R.id.show_pass_btn){
230             if(mEnterPwd.getTransformationMethod().equals(
231                 PasswordTransformationMethod.getInstance())){
232                 ((ImageView)(view)).setImageResource(R.drawable.
233                     ic_pwd_no_vis);
234                 mEnterPwd.setTransformationMethod(
235                     HideReturnsTransformationMethod.getInstance());
236             } else{
237                 ((ImageView)(view)).setImageResource(R.drawable.
238                     ic_pwd_vis);
239                 mEnterPwd.setTransformationMethod(
240                     PasswordTransformationMethod.getInstance());
241             }
242         }
243     }

```

```

239         }
240     }
241     /*private void updateTop() {
242         mEnterFamilyLbl.setText(R.string.POLF);
243         mEnterFamily.setText(mFamilyEntered);
244         mEnterMemberLbl.setText(R.string.POLM);
245         mEnterMember.setText(mMemberEntered);
246         mEnterPwdLbl.setText(R.string.POLP);
247         mEnterPwd.setText(mPwdEntered);
248         mEnterMessage.setText("");
249         mNewSession.setText(R.string.POBP);
250         mNewMember.setText(R.string.POBM);
251         mNewFamily.setText(R.string.POBF);
252     }*/
253
254     private void updateDisplayOnAsync(Boolean b) {
255         int indNet,indClick;
256         if (b) {
257             indNet=View.VISIBLE;
258             indClick=View.INVISIBLE;
259             frameNetAnim.start();
260             mProgressBar.setProgress(1);
261         }
262         else {
263             indNet=View.INVISIBLE;
264             indClick=View.VISIBLE;
265             frameNetAnim.stop();
266             mProgressBar.setProgress(0);
267         }
268         mNetAnim.setVisibility(indNet);
269         mProgressBar.setVisibility(indNet);
270         mNewFamily.setVisibility(indClick);
271         mNewMember.setVisibility(indClick);
272         mNewSession.setVisibility(indClick);
273     }
274
275     private Boolean IsLenOK(String s, int min, int max) {
276         int l=s.length();
277         return ((l>min)&&(l<max));
278     }
279
280     private Integer getColorOnCondition(String z, Integer state) {
281         state=state-1;
282         int retDraw =0;
283         int TRUE=R.color.bg_enter_val;
284         int FALSE=R.color.light_red;
285         retDraw=((Pattern.matches(REGEX[state], z)&&(IsLenOK(z, MINMAX[state][0],MINMAX[state][1])))?
286                     TRUE : FALSE);
287         Integer err_mess[]={R.string.POERUF,R.string.PORUM,R.string.
288         PORUP};
289         if (retDraw==FALSE){
290             mEnterMessage.setText(getResources().getString(err_mess[state]
291             ,MINMAX[state][0],MINMAX[state][1]));
292         }

```

```

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

```

```

334                     Intent intent=new Intent(getApplicationContext(),  

335                         RecipeListActivity.class);  

336                     startActivity(intent);  

337                     finish();  

338                 }  

339             }  

340  

341             @Override  

342             protected Boolean doInBackground(Void... voids) {  

343                 CookBook cb=CookBook.get(getApplicationContext());  

344                 String s=getFamilyComp();  

345                 mProgressBar.setProgress(2);  

346                 if (s==null){  

347                     mEnterMessage.setText(R.string.POER_com);  

348                     return false; } else {  

349                         memberFamily=parseJsonFamily(s); }  

350                 mProgressBar.setProgress(5);  

351                 Integer cas=goFamilyGet();  

352                 if (cas==0) { return false; }  

353                 if ((cas==NEW_FAMILY)|| (cas==NEW_MEMBER)){  

354                     if (createMember(cas)){  

355                         mProgressBar.setProgress(10);  

356                         mEnterMessage.setText(getString(R.string.  

357                             POOKM));  

358                     } else {  

359                         mEnterMessage.setText(getString(R.string.  

360                             POERM_new));  

361                         return false; }  

362                     cb.clearCookBook();  

363                     s=downloadCB();  

364                     if (s==null){  

365                         //fdx Log(TAG, "download cookbook failed");  

366                         return false;  

367                     }  

368                     mProgressBar.setProgress(50);  

369                     mRecipes=parseJsonCB(s);  

370                     if (!downloadNotesAndParse()){  

371                         //fdx Log(TAG, "Failure in reading and parsing  

372                         Notes");  

373                         return false; }  

374                     mProgressBar.setProgress(70);  

375                     if (!downloadCommentsAndParse()){  

376                         //fdx Log(TAG, "Failure in reading and parsing  

377                         Comments");  

378                         return false; }  

379                     mProgressBar.setProgress(70);  

380                     cb.fillCookBook(mRecipes);  

381                     mProgressBar.setProgress(90);  

382                     return true; }  


```

```

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

```

```

434         String json = mNetUtils.sendPostRequestJson(mSession.
435             getURLPath() + PHPREQGETNOTES, data);
436         //User u;
437         //String s;
438         UUID uuid;
439         Note n;
440         try {
441             JSONArray jarr1=new JSONArray(json);
442             for (int i=0; i<jarr1.length(); i++){
443                 JSONObject obj = jarr1.getJSONObject(i);
444                 uuid=UUID.fromString(obj.getString("id_recipe"));
445                 n=mNetUtils.parseObjectNote(obj);
446                 for(Recipe r:mRecipes){
447                     if (r.getId().equals(uuid)){
448                         r.addNote(n);
449                         break;
450                     }
451                 }
452             }
453         } catch (Exception e){
454             //fdx Log(TAG, "Failure in parsing JSON Notes "+e);
455             return false;
456         }
457         return true;
458     }
459
460     private Boolean downloadCommentsAndParse(){
461         HashMap<String, String> data = new HashMap<>();
462         data.put("iduser", mUser.getId().toString().trim());
463         String json = mNetUtils.sendPostRequestJson(mSession.
464             getURLPath() + PHPREQGETCOMMENTS, data);
465         UUID uuid;
466         Comment c;
467         try {
468             JSONArray jarr1=new JSONArray(json);
469             for (int i=0; i<jarr1.length(); i++){
470                 JSONObject obj = jarr1.getJSONObject(i);
471                 c=mNetUtils.parseObjectComment(obj);
472                 uuid=UUID.fromString(obj.getString("id_recipe"));
473                 if (c!=null) {
474                     for(Recipe r:mRecipes){
475                         if (r.getId().equals(uuid)){
476                             r.addComment(c);
477                             break;
478                         }
479                     }
480                 }
481             }
482         } catch (Exception e){
483             //fdx Log(TAG, "Failure in parsing JSON Array Comments "+
484             e);
485             return false;
486         }

```

```

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

```

```

536                     mEnterFamily.setBackgroundColor(ContextCompat.
537                         getColor(getApplicationContext(), R.color.light_red));
538                     else {
539                         //mEnterMessage.setText(R.string.POOKF);
540                         User u= new User("", "");
541                         for(User user:memberFamily) {
542                             if (user.getName().equals(mMemberEntered)) {u=
543                                 user;
544                             }
545                             if (u.getName().equals("")) {
546                                 mEnterMessage.setText(R.string.POERF_nomem);
547                                 mEnterMember.setBackgroundColor(ContextCompat.
548                                     getColor(getApplicationContext(), R.color.light_red));
549                             } else {
550                                 if (!mPwdRead.equals(mPwdEntered.trim())) {
551                                     mEnterMessage.setText(R.string.
552                                         POERP_wrong);
553                                     mEnterPwd.setBackgroundColor(
554                                         ContextCompat.getColor(getApplicationContext(), R.color.light_red));
555                                 } else {
556                                     mUser=u;
557                                     mEnterMessage.setText(getString(R.string.
558                                         POOKP, u.getName()));
559                                     return NEW_SESSION;
560                                 }
561                             }
562                         break;
563                     }
564                     case NEW_FAMILY : {
565                         if (memberFamily.size()==0) {
566                             mEnterMessage.setText(R.string.POOK_done);
567                             return NEW_FAMILY;
568                         }
569                         else {
570                             mEnterMessage.setText(R.string.POERF_notnew);
571                             mEnterFamily.setBackgroundColor(ContextCompat.
572                                 getColor(getApplicationContext(), R.color.light_red));
573                         }
574                         break;
575                     }
576                     case NEW_MEMBER : {
577                         if (memberFamily.size()==0) {
578                             mEnterMessage.setText(R.string.POERM_nofam);
579                             mEnterFamily.setBackgroundColor(ContextCompat.
580                                 getColor(getApplicationContext(), R.color.light_red));
581                         }
582                         else {
583                             // family found
584                             User u= new User("", "");
585                             for(User user:memberFamily) {
586                                 if (user.getName().equals(mMemberEntered)) {u=
587                                     user;
588                                 }
589                                 if (u.getName().equals("")) {
590

```

```
581                     if (!mPwdRead.equals(mPwdEntered.trim())) {
582                         mEnterMessage.setText(R.string.
583                             POERP_wrong);
584                         mEnterPwd.setBackgroundColor(
585                             ContextCompat.getColor(getApplicationContext(), R.color.light_red));
586                         } else {
587                             mEnterMessage.setText(R.string.POOKM);
588                             return NEW_MEMBER;
589                         } else {
590                             mEnterMessage.setText(R.string.POERM_notnew);
591                             mEnterMember.setBackgroundColor(ContextCompat
592                             .getColor(getApplicationContext(), R.color.light_red));
593                         }
594                         break;
595                     default : {
596                         //fdx Log(TAG, "Switch case on mState anomaly : "+
597                         mState);
598                     }
599                 }
600             }
601 }
```

```

1 package com.fdx.cookbook;
2
3 import android.content.Context;
4 import android.os.AsyncTask;
5
6 import java.io.InputStream;
7 import java.net.HttpURLConnection;
8 import java.net.URL;
9
10 public class TestConnection {
11     private static String PHP204="return204.php";
12     private static final String TAG = "DebugTestConnection";
13     private SessionInfo mSession;
14
15     public void TestConnection() {
16         //
17     }
18     public void setTestConnexion(Context context) {
19         mSession = SessionInfo.get(context);
20     }
21
22     public void testGo(){
23
24         class testCon extends AsyncTask<Void, Void, Boolean> {
25
26             @Override
27             protected Boolean doInBackground(Void... voids) {
28                 try {
29                     URL url = new URL(mSession.getURLPath()+PHP204);
30                     HttpURLConnection conn = (HttpURLConnection) url.
31                     openConnection();
32                     conn.setConnectTimeout(mSession.getConnectTimeout(
33                         ));
34                     conn.setReadTimeout(mSession.getReadTimeout());
35                     conn.setRequestMethod("HEAD");
36                     InputStream in = conn.getInputStream();
37                     int status = conn.getResponseCode();
38                     in.close();
39                     conn.disconnect();
40                     if (status == HttpURLConnection.HTTP_NO_CONTENT) {
41                         //Log.d(TAG, "Test 204 : true ");
42                         return true;
43                     } else {return false;}
44                 } catch (Exception e) {return false;}
45             }
46
47             @Override
48             protected void onPostExecute(Boolean s) {
49                 super.onPostExecute(s);
50                 mSession.setConnection(s);
51             }
52         }
53         testCon test = new testCon();

```

```
53         test.execute();  
54     }  
55 }  
56
```

```

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

```

```
53      }
54
55      @Override
56      public void onUpgrade(SQLiteDatabase db, int oldVersion, int
newVersion) {
57
58      }
59 }
60
```

```
1 package com.fdx.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.fdx.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.view.LayoutInflater;
11 import android.view.View;
12 import android.widget.Button;
13 import android.widget.RatingBar;
14
15 import java.util.UUID;
16
17 public class RatePickerFragment extends DialogFragment {
18     public static final String EXTRA_RATE = "com.fdx.cookbook.rate";
19     private static final String ARG_ID= "recipeId";
20     private static final String TAG = "DebugRatePickerFragment";
21     private int mRate;
22     private UUID mUUID;
23     public static RatePickerFragment newInstance(UUID uuid) {
24         Bundle args = new Bundle();
25         args.putSerializable(ARG_ID, uuid);
26         RatePickerFragment fragment = new RatePickerFragment();
27         fragment.setArguments(args);
28         return fragment;
29     }
30
31     @Override
32     public Dialog onCreateDialog(Bundle savedInstanceState) {
33         mUUID = (UUID) getArguments().getSerializable(ARG_ID);
34         View v= LayoutInflater.from(getActivity())
35             .inflate(R.layout.rank_dialog, null);
36         RatingBar ratingBar = (RatingBar)v.findViewById(R.id.
dialog_ratingbar);
37         ratingBar.setRating(4);
38         AlertDialog.Builder dialog= new AlertDialog.Builder(
39             getActivity())
40             .setView(v)
41             .setTitle(R.string.DS_title)
42             .setPositiveButton(android.R.string.ok,
43                 new DialogInterface.OnClickListener() {
44                     @Override
45                     public void onClick(DialogInterface dialog
46 , int which) {
47                         mRate=(int) ratingBar.getRating();
48                         addNotetoRecipe();
49                         sendResult(Activity.RESULT_OK, mRate);
50                     }
51                 });
52         dialog.setNegativeButton("Cancel",
53             new DialogInterface.OnClickListener() {

```

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

```

1 package com.fdx.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.graphics.BitmapFactory;
9 import android.net.Uri;
10 import android.os.Bundle;
11 import android.provider.MediaStore;
12 import android.support.v4.app.Fragment;
13 import android.support.v4.content.FileProvider;
14 import android.text.Editable;
15 import android.text.TextWatcher;
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.File;
33 import java.io.FileOutputStream;
34 import java.io.IOException;
35 import java.io.InputStream;
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 int PICK_IMAGE= 3;
46     private static final String TAG = "CB_EditFrag";
47     private static final String FPROVIDER="com.fdx.cookbook.
fileprovider";
48     private static final String UUIDNULL="00000000-0000-0000-0000-
000000000000";
49     private Recipe mRecipe;
50     private Recipe mRecipeInit;
51     private UUID mRecipeId;
52     private File mPhotoFile;

```

```

53     private EditText mTitleField;
54     private EditText mSourceField;
55     private EditText mSourceUrl;
56     private EditText mNbPersField;
57     private TextView[] mStepTextNum;
58     private EditText[] mStepTextEdit;
59     private ImageButton mStepInc;
60     private int mStepNb;
61     private int mStepNbDisplay;
62     private TextView[] mIngTextNum;
63     private EditText[] mIngTextEdit;
64     private ImageButton mIngInc;
65     private int mIngNb;
66     private int mIngNbDisplay;
67     private Spinner mSeasonSpinner;
68     private Spinner mTypeSpinner;
69     private Spinner mDifficultySpinner;
70     private ScrollView mScroll;
71     private ImageView mPhotoView;
72     private Bitmap mBmp;
73
74     public static RecipeEditFragment newInstance(UUID recipeId) {
75         Bundle args=new Bundle();
76         args.putSerializable(ARG_RECIPE_ID, recipeId);
77         RecipeEditFragment fragment=new RecipeEditFragment();
78         fragment.setArguments(args);
79         return fragment;
80     }
81
82     @Override
83     public void onCreate(Bundle savedInstanceState) {
84         super.onCreate(savedInstanceState);
85         mRecipe=new Recipe();
86         mRecipeInit=new Recipe();
87         mRecipeId=(UUID) getArguments().getSerializable(ARG_RECIPE_ID)
88         );
89         setHasOptionsMenu(true);
90         SessionInfo session=SessionInfo.get(getActivity());
91         if (!IsRecipeNew(mRecipeId)) {
92             mRecipe=CookBook.get(getActivity()).getRecipe(mRecipeId);
93             mRecipeInit=CookBook.get(getActivity()).getRecipe(
94                 mRecipeId);
95             mPhotoFile=CookBook.get(getActivity()).getPhotoFile(
96                 mRecipe);
97             } else {
98                 mRecipe.setOwner(session.getUser());
99                 mRecipeInit.setOwner(session.getUser());
100                mRecipeInit.setId(mRecipe.getId());
101            }
102        }
103    @Override

```

```

104     public void onPause() {
105         super.onPause();
106     }
107
108     @Override
109     public void onCreateOptionsMenu(Menu menu, MenuInflater inflater)
110     {
111         super.onCreateOptionsMenu(menu, inflater);
112         inflater.inflate(R.menu.fragment_recipe, menu);
113     }
114
115     @Override
116     public boolean onOptionsItemSelected(MenuItem item) {
117         switch (item.getItemId()) {
118             case R.id.recipe_menu_done:
119                 if (mRecipe.getTitle().length()>0){
120                     if (!mRecipe.hasNotChangedSince(mRecipeInit)){
121                         mRecipe.updateTS(AsynCallFlag.NEWRECIPE, true);
122                         mRecipe.setDate(new Date());
123                     }
124                     if (mBmp!=null){
125                         NetworkUtils networkutils=new NetworkUtils(
126                             getContext());
127                         networkutils.saveBmpInRecipe(mBmp, mRecipe);
128                         ResizePhoto(mRecipe);
129                         mRecipe.updateTS(AsynCallFlag.NEWPHOTO,true);
130                     }
131                     if (IsRecipeNew(mRecipeId)){
132                         CookBook.get(getActivity()).addRecipe(mRecipe
133                     );
134                     } else {
135                         CookBook.get(getActivity()).updateRecipe(
136                             mRecipe);
137                     }
138                     getActivity().onBackPressed();
139                     return true;
140                 case R.id.recipe_menu_delete:
141                     if (!IsRecipeNew(mRecipeId)){
142                         CookBook.get(getActivity()).markRecipeToDelete(
143                             mRecipe);
144                     }
145                     getActivity().onBackPressed();
146                     return true;
147                 default:
148                     return super.onOptionsItemSelected(item);
149     }
150     @Override
151     public View onCreateView(LayoutInflater inflater, ViewGroup
152     container, Bundle savedInstanceState){
153         final View v=inflater.inflate(R.layout.fragment_recipe_edit,

```

```

151 container, false);
152         mScrollView=(ScrollView) v.findViewById(R.id.
153             fragment_recipe_scroll);
153         /*PackageManager packageManager= getActivity()..
154             getPackageManager();
154             final Intent captureImage=new Intent(MediaStore.
155                 ACTION_IMAGE_CAPTURE);
155             boolean canTakePhoto=(mPhotoFile != null) &&
156                 (captureImage.resolveActivity(packageManager)!=
156                  null);*/
157             mPhotoView=(ImageView) v.findViewById(R.id.recipe_photo);
158             mPhotoView.setOnClickListener(new View.OnClickListener() {
159                 @Override
160                 public void onClick(View v) {
161                     Intent intent = new Intent();
162                     intent.setType("image/*");
163                     intent.setAction(Intent.ACTION_GET_CONTENT);
164                     startActivityForResult(Intent.createChooser(intent, "
164                         Select Picture"), PICK_IMAGE);
165                 }
166             });
167             updatePhotoView();
168             mTitleField= (EditText) v.findViewById(R.id.recipe_title);
169             mTitleField.setText(mRecipe.getTitle());
170             mTitleField.addTextChangedListener(new TextWatcher() {
171                 @Override
172                 public void beforeTextChanged(CharSequence s, int start,
173                     int count, int after) {
174
175                 @Override
176                 public void onTextChanged(CharSequence s, int start, int
176                     before, int count) {
177                     mRecipe.setTitle(s.toString());
178                 }
179
180                 @Override
181                 public void afterTextChanged(Editable s) {
182
183             });
184
185             mSourceField= (EditText) v.findViewById(R.id.recipe_source);
186             mSourceField.setText(mRecipe.getSource());
187             mSourceField.addTextChangedListener(new TextWatcher() {
188                 @Override
189                 public void beforeTextChanged(CharSequence s, int start,
189                     int count, int after) {
190
191                 @Override
192                 public void onTextChanged(CharSequence s, int start, int
192                     before, int count) {
193                     mRecipe.setSource(s.toString());
194
195             }

```

```

196
197         @Override
198         public void afterTextChanged(Editable s) {
199             }
200         });
201
202         mSourceUrl=(EditText) v.findViewById(R.id.recipe_source_url);
203         mSourceUrl.setText(mRecipe.getSource_url().toString());
204         mSourceUrl.addTextChangedListener(new TextWatcher() {
205             @Override
206             public void beforeTextChanged(CharSequence s, int start,
207               int count, int after) {
208                 }
209
210             @Override
211             public void onTextChanged(CharSequence s, int start, int
212               before, int count) {
213                 if (s.toString().equals("")) {} else {
214                     try {
215                         URL url=new URL(s.toString());
216                         mRecipe.setSource_url(url);
217                     } catch (MalformedURLException e) {
218                         //fdx Log(TAG, "onTextChanged de mSource_url
219                         >" +s.toString()+"< Failed >"+ e);
220                     }
221                 }
222             @Override
223             public void afterTextChanged(Editable s) {
224             }
225         });
226
227         mNbPersField= (EditText) v.findViewById(R.id.recipe_nbpers);
228         mNbPersField.setText(mRecipe.getNbPers()+"");
229         mNbPersField.addTextChangedListener(new TextWatcher() {
230             @Override
231             public void beforeTextChanged(CharSequence s, int start,
232               int count, int after) {
233                 }
234
235             @Override
236             public void onTextChanged(CharSequence s, int start, int
237               before, int count) {
238                 if (s.toString().equals("")) {} else {
239                     int nb_entered = Integer.parseInt(s.toString());
240                     if ((nb_entered > 0) && (nb_entered < 13)) {
241                         mRecipe.setNbPers(nb_entered);
242                     }
243                 }
244             }

```

```

245         @Override
246         public void afterTextChanged(Editable s) {
247             }
248         });
249
250
251         mSeasonSpinner= (Spinner) v.findViewById(R.id.recipe_season);
252         ArrayAdapter<CharSequence> adapterSeason = ArrayAdapter.
253             createFromResource(getContext(),
254                 R.array.recipe_season_array, R.layout.
255                 edit_spinner_item);
256         mSeasonSpinner.setAdapter(adapterSeason);
257         mSeasonSpinner.setSelection(RecipeSeason.getIndex(mRecipe.
258             getSeason()));
259         mSeasonSpinner.setOnItemSelectedListener(new AdapterView.
260             OnItemSelectedListener() {
261
262             @Override
263             public void onItemSelected(AdapterView<?> parent, View
264                 view, int position, long id) {
265
266                 mRecipe.setSeason(RecipeSeason.getSeason(position));
267             }
268
269             @Override
270             public void onNothingSelected(AdapterView<?> parent) {
271
272             }
273
274             mTypeSpinner= (Spinner) v.findViewById(R.id.recipe_type);
275             ArrayAdapter<CharSequence> adapterType = ArrayAdapter.
276                 createFromResource(getContext(),
277                     R.array.recipe_type_array, R.layout.edit_spinner_
278                     );
279             mTypeSpinner.setAdapter(adapterType);
280             mTypeSpinner.setSelection(RecipeType.getIndex(mRecipe.getType
281                     ()));
282             mTypeSpinner.setOnItemSelectedListener(new AdapterView.
283                 OnItemSelectedListener() {
284
285                 @Override
286                 public void onItemSelected(AdapterView<?> parent, View
287                     view, int position, long id) {
288
289                 mRecipe.setType(RecipeType.getType(position));
290             }
291
292             @Override
293             public void onNothingSelected(AdapterView<?> parent) {
294
295             }
296         });
297
298         mDifficultySpinner= (Spinner) v.findViewById(R.id.
299             recipe_difficulty);
300         ArrayAdapter<CharSequence> adapterDifficulty = ArrayAdapter.
301             createFromResource(getContext(),

```

```

287             R.array.recipe_difficulty_array, R.layout.
288             edit_spinner_item);
289             mDifficultySpinner.setAdapter(adapterDifficulty);
290             mDifficultySpinner.setSelection(RecipeDifficulty.getIndex(
291               mRecipe.getDifficulty()));
292             mDifficultySpinner.setOnItemSelectedListener(new AdapterView.
293               OnItemSelectedListener() {
294                 @Override
295                 public void onItemSelected(AdapterView<?> parent, View
296                   view, int position, long id) {
297                     mRecipe.setDifficulty(RecipeDifficulty.getDifficulty(
298                       position));
299                 }
300               );
301             final int[] rID= {R.id.recipe_S1,R.id.recipe_S2,R.id.
302               recipe_S3,R.id.recipe_S4,
303               R.id.recipe_S5,R.id.recipe_S6,R.id.recipe_S7,R.id.
304               recipe_S8,R.id.recipe_S9};
305             final int[] rID_in= {R.id.recipe_S1_in,R.id.recipe_S2_in,R.id.
306               .recipe_S3_in,R.id.recipe_S4_in,
307               R.id.recipe_S5_in,R.id.recipe_S6_in,R.id.recipe_S7_in
308               ,R.id.recipe_S8_in,R.id.recipe_S9_in};
309             mStepTextNum= new TextView[mRecipe.getNbStepMax()];
310             mStepTextEdit=new EditText[mRecipe.getNbStepMax()];
311             for(int i=0;i<mRecipe.getNbStepMax();i++) {
312               mStepTextNum[i] = (TextView) v.findViewById(rID[i]);
313               mStepTextEdit[i] = (EditText) v.findViewById(rID_in[i]);
314             }
315             mStepInc=(ImageButton) v.findViewById(R.id.step_add);
316             updateListStep(v);

317             mStepTextEdit[0].addTextChangedListener(new TextWatcher() {
318               @Override
319               public void beforeTextChanged(CharSequence s, int start,
320                 int count, int after) { }
321               @Override
322               public void onTextChanged(CharSequence s, int start, int
323                 before, int count) {
324                 mRecipe.setStep(0+1, s.toString());
325               }
326               @Override
327               public void afterTextChanged(Editable s) {} });
328             mStepTextEdit[1].addTextChangedListener(new TextWatcher() {
329               @Override
330               public void beforeTextChanged(CharSequence s, int start,
331                 int count, int after) { }
332               @Override
333               public void onTextChanged(CharSequence s, int start, int
334                 count) {} });

```

```

328 before, int count) {
329             mRecipe.setStep(1+1, s.toString());
330         }
331     @Override
332         public void afterTextChanged(Editable s) {}
333     });
334     mStepTextEdit[2].addTextChangedListener(new TextWatcher() {
335         @Override
336         public void beforeTextChanged(CharSequence s, int start,
337             int count, int after) {}
338         @Override
339         public void onTextChanged(CharSequence s, int start, int
340             before, int count) {
341             mRecipe.setStep(2+1, s.toString());
342         }
343     });
344     mStepTextEdit[3].addTextChangedListener(new TextWatcher() {
345         @Override
346         public void beforeTextChanged(CharSequence s, int start,
347             int count, int after) {}
348         @Override
349         public void onTextChanged(CharSequence s, int start, int
350             before, int count) {
351             mRecipe.setStep(3+1, s.toString());
352         }
353     });
354     mStepTextEdit[4].addTextChangedListener(new TextWatcher() {
355         @Override
356         public void beforeTextChanged(CharSequence s, int start,
357             int count, int after) {}
358         @Override
359         public void onTextChanged(CharSequence s, int start, int
360             before, int count) {
361             mRecipe.setStep(4+1, s.toString());
362         }
363     });
364     mStepTextEdit[5].addTextChangedListener(new TextWatcher() {
365         @Override
366         public void beforeTextChanged(CharSequence s, int start,
367             int count, int after) {}
368         @Override
369         public void onTextChanged(CharSequence s, int start, int
370             before, int count) {
371             mRecipe.setStep(5+1, s.toString());
372         }
373     });

```

```

374         mStepTextEdit[6].addTextChangedListener(new TextWatcher() {
375             @Override
376             public void beforeTextChanged(CharSequence s, int start,
377                 int count, int after) { }
378             @Override
379             public void onTextChanged(CharSequence s, int start, int
380                 before, int count) {
381                 mRecipe.setStep(6+1, s.toString());
382             }
383             @Override
384             public void afterTextChanged(Editable s) {}
385         });
386         mStepTextEdit[7].addTextChangedListener(new TextWatcher() {
387             @Override
388             public void beforeTextChanged(CharSequence s, int start,
389                 int count, int after) { }
390             @Override
391             public void onTextChanged(CharSequence s, int start, int
392                 before, int count) {
393                 mRecipe.setStep(7+1, s.toString());
394             }
395             @Override
396             public void afterTextChanged(Editable s) {}
397         });
398         mStepTextEdit[8].addTextChangedListener(new TextWatcher() {
399             @Override
400             public void beforeTextChanged(CharSequence s, int start,
401                 int count, int after) { }
402             @Override
403             public void onTextChanged(CharSequence s, int start, int
404                 before, int count) {
405                 mRecipe.setStep(8+1, s.toString());
406             }
407             @Override
408             public void afterTextChanged(Editable s) {}
409         });
410
411         mStepInc.setOnClickListener(new View.OnClickListener() {
412             @Override
413             public void onClick(View v) {
414                 updateListStep(v);
415             }
416         });
417
418         final int[] rIngID= {R.id.recipe_I01,R.id.recipe_I02,R.id.
419             recipe_I03,R.id.recipe_I04,
420             R.id.recipe_I05,R.id.recipe_I06,R.id.recipe_I07,R.id.
421             recipe_I08,
422             R.id.recipe_I09,R.id.recipe_I10,R.id.recipe_I11,R.id.
423             recipe_I12,
424             R.id.recipe_I13,R.id.recipe_I14,R.id.recipe_I15};
425         final int[] rIngID_in= {R.id.recipe_I01_in,R.id.recipe_I02_in
426             ,R.id.recipe_I03_in,R.id.recipe_I04_in,
427             R.id.recipe_I05_in,R.id.recipe_I06_in,R.id.
428             recipe_I07_in,R.id.recipe_I08_in,R.id.recipe_I09_in,R.id.
429             recipe_I10_in,R.id.recipe_I11_in,R.id.recipe_I12_in,R.id.
430             recipe_I13_in,R.id.recipe_I14_in,R.id.recipe_I15_in};
431     }

```

```

417     recipe_I07_in,R.id.recipe_I08_in,
418             R.id.recipe_I09_in,R.id.recipe_I10_in,R.id.
419             recipe_I11_in,R.id.recipe_I12_in,
420             R.id.recipe_I13_in,R.id.recipe_I14_in,R.id.
421             recipe_I15_in};
422         mIngTextNum= new TextView[mRecipe.getNbIngMax()];
423         mIngTextEdit=new EditText[mRecipe.getNbIngMax()];
424         for(int i=0;i<mRecipe.getNbIngMax();i++) {
425             mIngTextNum[i] = (TextView) v.findViewById(rIngID[i]);
426             mIngTextEdit[i] = (EditText) v.findViewById(rIngID_in[i])
427 ;
428         }
429         mIngInc=(ImageButton) v.findViewById(R.id.ing_add);
430         mIngTextEdit[0].setText(mRecipe.getIngredient(0 + 1));
431         mIngTextEdit[1].setText(mRecipe.getIngredient(1 + 1));
432         mIngTextEdit[2].setText(mRecipe.getIngredient(2 + 1));
433         mIngInc=(ImageButton) v.findViewById(R.id.ing_add);
434         updateListIng(v);
435
436         mIngTextEdit[0].addTextChangedListener(new TextWatcher() {
437             @Override
438                 public void beforeTextChanged(CharSequence s, int start,
439                     int count, int after) { }
440             @Override
441                 public void onTextChanged(CharSequence s, int start, int
442                     before, int count) {
443                     mRecipe.setIngredient(0+1, s.toString());
444                 }
445             @Override
446                 public void afterTextChanged(Editable s) {}
447         });
448         mIngTextEdit[1].addTextChangedListener(new TextWatcher() {
449             @Override
450                 public void beforeTextChanged(CharSequence s, int start,
451                     int count, int after) { }
452             @Override
453                 public void onTextChanged(CharSequence s, int start, int
454                     before, int count) {
455                     mRecipe.setIngredient(1+1, s.toString());
456                 }
457             @Override
458                 public void afterTextChanged(Editable s) {}
459         });
460         mIngTextEdit[2].addTextChangedListener(new TextWatcher() {
461             @Override
462                 public void beforeTextChanged(CharSequence s, int start,
463                     int count, int after) { }
464             @Override
465                 public void onTextChanged(CharSequence s, int start, int
466                     before, int count) {
467                     mRecipe.setIngredient(2+1, s.toString());
468                 }
469             @Override
470                 public void afterTextChanged(Editable s) {}

```

```

462         });
463         mIngTextEdit[3].addTextChangedListener(new TextWatcher() {
464             @Override
465             public void beforeTextChanged(CharSequence s, int start,
466                 int count, int after) { }
467             @Override
468             public void onTextChanged(CharSequence s, int start, int
469                 before, int count) {
470                 mRecipe.setIngredient(3+1, s.toString());
471             }
472             @Override
473             public void afterTextChanged(Editable s) {}
474         });
475         mIngTextEdit[4].addTextChangedListener(new TextWatcher() {
476             @Override
477             public void beforeTextChanged(CharSequence s, int start,
478                 int count, int after) { }
479             @Override
480             public void onTextChanged(CharSequence s, int start, int
481                 before, int count) {
482                 mRecipe.setIngredient(4+1, s.toString());
483             }
484             @Override
485             public void afterTextChanged(Editable s) {}
486         });
487         mIngTextEdit[5].addTextChangedListener(new TextWatcher() {
488             @Override
489             public void beforeTextChanged(CharSequence s, int start,
490                 int count, int after) { }
491             @Override
492             public void onTextChanged(CharSequence s, int start, int
493                 before, int count) {
494                 mRecipe.setIngredient(5+1, s.toString());
495             }
496             @Override
497             public void afterTextChanged(Editable s) {}
498         });
499         mIngTextEdit[6].addTextChangedListener(new TextWatcher() {
500             @Override
501             public void beforeTextChanged(CharSequence s, int start,
502                 int count, int after) { }
503             @Override
504             public void onTextChanged(CharSequence s, int start, int
505                 before, int count) {
506                 mRecipe.setIngredient(6+1, s.toString());
507             }
508             @Override
509             public void afterTextChanged(Editable s) {}
510         });
511         mIngTextEdit[7].addTextChangedListener(new TextWatcher() {
512             @Override
513             public void beforeTextChanged(CharSequence s, int start,
514                 int count, int after) { }
515             @Override

```

```

507         public void onTextChanged(CharSequence s, int start, int
508             before, int count) {
509                 mRecipe.setIngredient(7+1, s.toString());
510             }
511             @Override
512                 public void afterTextChanged(Editable s) {}
513             });
514             mIngTextEdit[8].addTextChangedListener(new TextWatcher() {
515                 @Override
516                     public void beforeTextChanged(CharSequence s, int start,
517                         int count, int after) {}
518                     @Override
519                         public void onTextChanged(CharSequence s, int start, int
520                             before, int count) {
521                                 mRecipe.setIngredient(8+1, s.toString());
522                             }
523                             @Override
524                                 public void afterTextChanged(Editable s) {}
525                                 });
526                                 mIngTextEdit[9].addTextChangedListener(new TextWatcher() {
527                                     @Override
528                                         public void beforeTextChanged(CharSequence s, int start,
529                                         int count, int after) {}
530                                         @Override
531                                             public void onTextChanged(CharSequence s, int start, int
532                                                 before, int count) {
533                                                 mRecipe.setIngredient(9+1, s.toString());
534                                                 }
535                                                 @Override
536                                                     public void afterTextChanged(Editable s) {}
537                                                     });
538                                                     mIngTextEdit[10].addTextChangedListener(new TextWatcher() {
539                                                         @Override
540                                                             public void beforeTextChanged(CharSequence s, int start,
541                                                               int count, int after) {}
542                                                               @Override
543                                                               public void onTextChanged(CharSequence s, int start, int
544                                                               before, int count) {
545                                                               mRecipe.setIngredient(10+1, s.toString());
546                                                               }
547                                                               @Override
548                                                               public void afterTextChanged(Editable s) {}
549                                                               });
550                                                               mIngTextEdit[11].addTextChangedListener(new TextWatcher() {
551                                                                   @Override
552                                                                       public void beforeTextChanged(CharSequence s, int start,
553                                                                         int count, int after) {}
554                                                                         @Override
555                                                                             public void onTextChanged(CharSequence s, int start, int
556                                                                             before, int count) {
557                                                                             mRecipe.setIngredient(11+1, s.toString());
558                                                                             }
559                                                                             @Override
560                                                                             public void afterTextChanged(Editable s) {}}

```

```

552         });
553         mIngTextEdit[12].addTextChangedListener(new TextWatcher() {
554             @Override
555             public void beforeTextChanged(CharSequence s, int start,
556                 int count, int after) { }
557             @Override
558             public void onTextChanged(CharSequence s, int start, int
559                 before, int count) {
560                 mRecipe.setIngredient(12+1, s.toString());
561             }
562             @Override
563             public void afterTextChanged(Editable s) {}
564         });
565         mIngTextEdit[13].addTextChangedListener(new TextWatcher() {
566             @Override
567             public void beforeTextChanged(CharSequence s, int start,
568                 int count, int after) { }
569             @Override
570             public void onTextChanged(CharSequence s, int start, int
571                 before, int count) {
572                 mRecipe.setIngredient(13+1, s.toString());
573             }
574             @Override
575             public void afterTextChanged(Editable s) {}
576         });
577         mIngTextEdit[14].addTextChangedListener(new TextWatcher() {
578             @Override
579             public void beforeTextChanged(CharSequence s, int start,
580                 int count, int after) { }
581             @Override
582             public void onTextChanged(CharSequence s, int start, int
583                 before, int count) {
584                 mRecipe.setIngredient(14+1, s.toString());
585             }
586             @Override
587             public void afterTextChanged(Editable s) {}
588         });
589
590         return v;
591     }
592
593
594     @Override
595     public void onActivityResult(int requestCode, int resultCode,
596         Intent data) {
597         if (resultCode != Activity.RESULT_OK) {
598             return;
599         }

```

```

599         if (requestCode==PICK_IMAGE) {
600             if (data == null) return ;
601             try{
602                 InputStream inputStream = getContext().getContentResolver()
603                     .openInputStream(data.getData());
604                 mBmp= BitmapFactory.decodeStream(inputStream);
605                 mPhotoView.setImageBitmap(mBmp);
606             } catch(Exception e) {
607                 deBug("recover data error:"+e);
608             }
609         }
610
611     private void updatePhotoView(){
612         if (mPhotoFile==null || !mPhotoFile.exists()){
613             mPhotoView.setImageDrawable(getResources().getDrawable(R.
614         drawable.ic_recipe_camera));
615         } else {
616             Bitmap bitmap=PictureUtils.getScaledBitmap(mPhotoFile.
617             getPath(), getActivity());
618             mPhotoView.setImageBitmap(bitmap);
619         }
620     private void updateListStep(View v) {
621         String cas;
622         int i_cur=mRecipe.getNbStep();
623         int i_max=mRecipe.getNbStepMax();
624         for (int i=0;i<mRecipe.getNbStepMax();i++) {
625             cas = "NOTVISIBLE";
626             if (i == 0) cas = "FIRST";
627             if (i < i_cur) cas = "ACTIVE";
628             if ((i == i_cur)&&(i_cur< i_max)) cas = "EMPTY_READY";
629             if ((i == i_cur)&&(i_cur==i_max)) cas = "ACTIVE";
630             switch (cas) {
631                 case "FIRST":
632                     if (mRecipe.getNbStep() == 0) {
633                         mStepTextEdit[i].setText("");
634                         mStepTextEdit[i].setHint(R.string.P3S1H);
635                     } else mStepTextEdit[i].setText(mRecipe.getStep(i +
636
637                     break;
638                 case "ACTIVE":
639                     mStepTextNum[i].setVisibility(View.VISIBLE);
640                     mStepTextEdit[i].setVisibility(View.VISIBLE);
641                     mStepTextEdit[i].setText(mRecipe.getStep(i + 1));
642                     mStepTextEdit[i].setHint("");
643                     break;
644                 case "EMPTY_READY":
645                     mStepTextNum[i].setVisibility(View.VISIBLE);
646                     mStepTextEdit[i].setVisibility(View.VISIBLE);
647                     mStepTextEdit[i].setText("");
648                     mStepTextEdit[i].setHint(R.string.P3S1H);
649                     break;

```

```

649             case "NOTVISIBLE":
650                 mStepTextNum[i].setVisibility(View.GONE);
651                 mStepTextEdit[i].setVisibility(View.GONE);
652                 mStepTextEdit[i].setText("");
653                 mStepTextEdit[i].setHint("");
654             }
655         }
656     }
657
658     private void updateListIng(View v) {
659         String cas;
660         int i_cur=mRecipe.getNbIng();
661         int i_max=mRecipe.getNbIngMax();
662         for (int i=0;i<mRecipe.getNbIngMax();i++) {
663             cas = "NOTVISIBLE";
664             if (i == 0) cas = "FIRST";
665             if (i < i_cur) cas = "ACTIVE";
666             if ((i == i_cur)&&(i_cur< i_max)) cas = "EMPTY_READY";
667             if ((i == i_cur)&&(i_cur==i_max)) cas = "ACTIVE";
668             switch (cas) {
669                 case "FIRST":
670                     if (mRecipe.getNbIng() == 0) {
671                         mIngTextEdit[i].setText("");
672                         mIngTextEdit[i].setHint(R.string.P3IT); }
673                     else mIngTextEdit[i].setText(mRecipe.
674                         getIngredient(i + 1));
675                     break;
676                 case "ACTIVE":
677                     mIngTextNum[i].setVisibility(View.VISIBLE);
678                     mIngTextEdit[i].setVisibility(View.VISIBLE);
679                     mIngTextEdit[i].setText(mRecipe.getIngredient(i +
680                         1));
681                     mIngTextEdit[i].setHint("");
682                     break;
683                 case "EMPTY_READY":
684                     mIngTextNum[i].setVisibility(View.VISIBLE);
685                     mIngTextEdit[i].setVisibility(View.VISIBLE);
686                     mIngTextEdit[i].setText("");
687                     mIngTextEdit[i].setHint(R.string.P3IT);
688                     break;
689                 case "NOTVISIBLE":
690                     mIngTextNum[i].setVisibility(View.GONE);
691                     mIngTextEdit[i].setVisibility(View.GONE);
692                     mIngTextEdit[i].setText("");
693                     mIngTextEdit[i].setHint("");
694             }
695
696         private Boolean IsRecipeNew(UUID uuid){
697             return uuid.toString().equals(UUIDNULL);
698         }
699
700         private Boolean ResizePhoto(Recipe r) {

```

```
701         File f = CookBook.get(getActivity()).getPhotoFile(r);
702         if (f==null || !f.exists()){
703             deBug( "No file from Cookbook for this recipe :" + r.
    getTitle()+" Error CB004");
704             return false;
705         } else {
706             Bitmap bitmap=PictureUtils.getScaledBitmap(mPhotoFile.
    getPath(), getActivity(), 600);
707             f.delete();
708             try {
709                 if(!f.createNewFile()) {
710                     deBug("File not deleted ! Error CB001");
711                     return false;
712                 }
713             } catch (IOException e) {
714                 deBug("Error in creating new file : "+e+" Error CB002
");
715                 return false;
716             }
717             try {
718
719                 FileOutputStream fOut = new FileOutputStream(f);
720                 bitmap.compress(Bitmap.CompressFormat.JPEG, 100, fOut
);
721                 fOut.flush();
722                 fOut.close();
723                 return true;
724             } catch (IOException e) {
725                 deBug("Error in reducing and saving file "+" Error
CB003");
726                 return false;
727             }
728         }
729     }
730     private void deBug(String s){
731         // Log(TAG, s);
732     }
733 }
734
```

```
1 package com.fdx.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.fdx.cookbook;
2
3 import android.app.Activity;
4 import android.content.Intent;
5 import android.graphics.Bitmap;
6 import android.net.Uri;
7 import android.os.AsyncTask;
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.v4.view.MenuCompat;
13 import android.support.v7.app.AppCompatActivity;
14 import android.support.v7.widget.LinearLayoutManager;
15 import android.support.v7.widget.RecyclerView;
16 import android.support.v7.widget.SearchView;
17 import android.util.Log;
18 import android.view.LayoutInflater;
19 import android.view.Menu;
20 import android.view.MenuInflater;
21 import android.view.MenuItem;
22 import android.view.View;
23 import android.view.ViewGroup;
24 import android.widget.ImageView;
25 import android.widget.RatingBar;
26
27 import android.widget.TextView;
28 import android.widget.Toast;
29
30 import java.io.File;
31 import java.text.DecimalFormat;
32 import java.util.ArrayList;
33 import java.util.Collections;
34 import java.util.List;
35 import java.util.UUID;
36
37 public class RecipeListFragment extends Fragment {
38     private RecyclerView mRecipeRecyclerView;
39     private RecipeAdapter mAdapter;
40     private SessionInfo mSession;
41     private Recipe mRecipeInit;
42     private MenuItem mMessageItem;
43     private static final String SAVED_SORT_STATUS="sort";
44     private AsyncCallClass mInstanceAsync;
45     private ListMask mListMask;
46     private static final String TAG = "CB_ListFra";
47     private static final String DIALOG_RATE = "DialogRate";
48     private static final int REQUEST_RATE = 0;
49     private static final String UUDIUNULL="00000000-0000-0000-0000-
000000000000";
50
51     @Override
52     public void onCreate(Bundle savedInstanceState) {
53         super.onCreate(savedInstanceState);
```

```

54         setHasOptionsMenu(true);
55         mSession= SessionInfo.get(getActivity());
56         mRecipeInit=new Recipe();
57         AppCompatActivity activity = (AppCompatActivity) getActivity();
58     );
59         User u=mSession.getUser();
60         //String nameInSubtitle=getString(R.string.P2U_txt,u.getName()
61         //(),u.getFamily());
62         String nameInSubtitle=u.getName();
63         activity.getSupportActionBar().setSubtitle(nameInSubtitle);
64         mInstanceAsync = new AsyncCallClass(getApplicationContext());
65         startSync();
66         mListMask=new ListMask(mSession.getUser());
67         String mask=mSession.getListMask();
68         if ((!mask.equals(""))&&(mask!=null)) mListMask.
69             updateFromString(mask);
70     }
71
72     @Override
73     public void onActivityResult(int requestCode, int resultCode,
74     Intent data) {
75         if (resultCode != Activity.RESULT_OK) {
76             return;
77         }
78     }
79     @Override
80     public View onCreateView(LayoutInflater inflater, ViewGroup
81     container,
82                     Bundle savedInstanceState) {
83         View view = inflater.inflate(R.layout.fragment_recipe_list,
84         container, false);
85         mRecipeRecyclerView = (RecyclerView) view.findViewById(R.id.
86         recipe_recycler_view);
87         mRecipeRecyclerView.setLayoutManager(new LinearLayoutManager(
88         getActivity()));
89         if (savedInstanceState!=null){
90             mListMask.updateFromString(savedInstanceState.getString(
91             SAVED_SORT_STATUS));
92         }
93         updateUI();
94         return view;
95     }
96
97     @Override

```

```

98     public void onPause() {
99         super.onPause();
100        mListMask.setListMask(mSession.getListMask().convertToString());
101    }
102
103    @Override
104    public void onSaveInstanceState(Bundle outState) {
105        super.onSaveInstanceState(outState);
106        outState.putString(AVED_SORT_STATUS, mListMask.
107            convertToString());
108    }
109
110    @Override
111    public void onCreateOptionsMenu(Menu menu, MenuInflater inflater)
112    {
113        super.onCreateOptionsMenu(menu, inflater);
114        inflater.inflate(R.menu.fragment_recipe_list, menu);
115        mMessageItem = menu.findItem(R.id.new_mail);
116        CookBook cookbook=CookBook.get(getActivity());
117        mMessageItem.setVisible(cookbook.isThereMail());
118        MenuItem searchItem = menu.findItem(R.id.menu_item_search);
119        final SearchView searchView = (SearchView) searchItem.
120            getActionView();
121        searchView.setOnQueryTextListener(new SearchView.
122            OnQueryTextListener() {
123            @Override
124            public boolean onQueryTextSubmit(String s) {
125                Toast.makeText(getContext(), getString(mListMask.
126                    toggleSearch(s)),
127                                Toast.LENGTH_SHORT).show();
128                updateUI();
129                return true;
130            }
131            @Override
132            public boolean onQueryTextChange(String s) {
133                if (s.equals("")) {
134                    Toast.makeText(getContext(), getString(mListMask.
135                    toggleSearch(s)),
136                                Toast.LENGTH_SHORT).show();
137                updateUI();
138            }
139            @Override
140            public boolean onOptionsItemSelected(MenuItem item) {
141                switch (item.getItemId()) {
142                    case R.id.new_recipe:
143                        Intent intent= RecipeActivity.newIntent(getActivity()
144                            , UUID.fromString(UUIDNULL));
145                        startActivity(intent);

```

```

145             return true;
146         case R.id.list_logout:
147             mSession.setReqNewSession(true);
148             Intent intent2=new Intent(getActivity() .
149                 getApplicationContext(), SplashActivity.class);
150             startActivity(intent2);
151             return true;
152         case R.id.list_sync:
153             startSync();
154             return true;
155         case R.id.new_mail:
156             CookBook cookbook=CookBook.get(getActivity());
157             if (cookbook.isThereMail()) {
158                 Intent intent3= RecipeMailDisplayActivity.newIntent(
159                     getActivity());
160                 startActivity(intent3); } else {
161                 mMessageItem.setVisible(cookbook.isThereMail()); }
162                 return true;
163             case R.id.list_filter:
164                 mListMask.reset();
165                 updateUI();
166                 return true;
167             case R.id.feedback:
168                 Intent intent3 = new Intent(Intent.ACTION_SENDTO);
169                 intent3.putExtra(Intent.EXTRA_SUBJECT, "Feedback on
application");
170                 intent3.putExtra(Intent.EXTRA_TEXT, "Your comment");
171                 intent3.setData(Uri.parse("mailto:cookbookfamily.
founder@gmail.com"));
172                 intent3.addFlags(Intent.FLAG_ACTIVITY_NEW_TASK);
173                 startActivity(intent3);
174                 return true;
175             default:
176                 return super.onOptionsItemSelected(item);
177             }
178         private void startSync(){
179             AsyncTask.Status as=mInstanceAsync.getStatus();
180             if (as== AsyncTask.Status.RUNNING){
181             }
182             if (as== AsyncTask.Status.PENDING){
183                 mInstanceAsync.execute();
184             }
185             if (as== AsyncTask.Status.FINISHED){
186                 mInstanceAsync=new AsyncCallClass(getContext());
187                 mInstanceAsync.execute();
188             }
189         }
190         private void updateUI() {
191             CookBook cookbook=CookBook.get(getActivity());
192             List<Recipe> recipes_in=cookbook.getRecipes();
193             List<Recipe> recipes=new ArrayList<>();

```

```

195         recipes.addAll(recipes_in);
196         for(Recipe r:recipes_in){
197             if (!mListMask.isRecipeSelected(r)) recipes.remove(r);
198         }
199         if (recipes.isEmpty()){
200             Integer message;
201             if (cookbook.getRecipesVisibles().isEmpty())
202                 message = (cookbook.isThereMail() ? R.string.TEW : R.
203                 string.TEZ);
204             else message=R.string.TEY;
205             Toast.makeText(getContext(), getString(message), Toast.
206             LENGTH_LONG).show();
207         } else {
208             if (mListMask.isTitleSorted()) {
209                 Collections.sort(recipes,
210                     (r1, r2) -> {
211                         return (r1.getTitle()).compareTo(r2.
212                             getTitle());
213                     });
214             } else {
215                 Collections.sort(recipes,
216                     (r1, r2) -> {
217                         return (r2.getDate()).compareTo(r1.getDate()
218                             ()) );
219                     });
220             }
221         }
222     }
223     if (mAdapter==null){
224         mAdapter=new RecipeAdapter(recipes);
225         mRecipeRecyclerView.setAdapter(mAdapter);
226     } else {
227         mAdapter.setRecipes(recipes);
228         mAdapter.notifyDataSetChanged();
229     }
230 }
231 }
232
233 private class RecipeHolder extends RecyclerView.ViewHolder
234             implements View.OnClickListener {
235     private TextView mTitleTextView;
236     private TextView mSourceTextView;
237     private TextView mNoteTextView;
238     private TextView mRatingTextView;
239     private TextView mDifficulty;
240     private TextView mType;
241     private ImageView mEditIcon;
242     private ImageView mPhotoView;
243     private ImageView mSunIcon;

```

```

244     private ImageView mIceIcon;
245     private File mPhotoFile;
246     private Recipe mRecipe;
247     private RatingBar mRating;
248     public RecipeHolder(LayoutInflater inflater, ViewGroup parent)
249     {
250         super(inflater.inflate(R.layout.list_item_recipe, parent,
251             false));
252         itemView.setOnClickListener(this);
253         mTitleTextView= (TextView) itemView.findViewById(R.id.
254             recipe_title);
255         mSourceTextView= (TextView) itemView.findViewById(R.id.
256             recipe_source);
257         mNoteTextView= (TextView) itemView.findViewById(R.id.
258             recipe_note);
259         mNoteTextView= (TextView) itemView.findViewById(R.id.
260             recipe_edit);
261         mEditIcon=(ImageView) itemView.findViewById(R.id.
262             recipe_img_sun);
263         mIceIcon=(ImageView) itemView.findViewById(R.id.
264             recipe_img_ice);
265         mDifficulty=(TextView) itemView.findViewById(R.id.
266             recipe_difficulty);
267         mType=(TextView) itemView.findViewById(R.id.recipe_type);
268         mPhotoView=(ImageView) itemView.findViewById(R.id.
269             recipe_photo);
270         mPhotoFile=CookBook.get(getActivity()).getPhotoFile(
271             mRecipe);
272         mRating=(RatingBar) itemView.findViewById(R.id.
273             recipe_list_ratingBar);
274         mRatingTextView= (TextView) itemView.findViewById(R.id.
275             textEmpty);
276         mRatingTextView.setOnClickListener(new View.
277             OnClickListener() {
278             @Override
279             public void onClick(View v) {
280                 FragmentManager manager = getFragmentManager();
281                 RatePickerFragment dialog = RatePickerFragment.
282                     newInstance(mRecipe.getId());
283                 dialog.setTargetFragment(RecipeListFragment.this,
284                     REQUEST_RATE);
285                 dialog.show(manager, DIALOG_RATE);
286             }
287         });
288         mTitleTextView.setOnClickListener(new View.
289             OnClickListener() {
290             @Override
291             public void onClick(View v) {
292                 Toast.makeText(getContext(),
293                     getString(mListMask.toggleTitle()),
294                     Toast.LENGTH_SHORT ).show();
295             updateUI();
296         }
297     }
298 }

```

```

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306
307
308
309
310
311
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313
314
315
316
317
318
319
320
321
322
323
324
    }
} );
mNoteTextView.setOnClickListener(new View.OnClickListener()
{
    @Override
    public void onClick(View v)
    {
        Toast.makeText(getContext(), getString mListMask.
toggleSortNote()), Toast.LENGTH_SHORT ).show();
        updateUI();
    }
} );
mSourceTextView.setOnClickListener(new View.
OnClickListener() {
    @Override
    public void onClick(View v) {
        Toast.makeText(getContext(), getString mListMask.
toggleUser(mRecipe.getOwner()), mRecipe.getOwner().getName()), Toast.
LENGTH_SHORT ).show();
        updateUI();
    }
} );
mSunIcon.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        Toast.makeText(getContext(), getString mListMask.
toggleSun()), Toast.LENGTH_SHORT ).show();
        updateUI();
    }
} );
mIceIcon.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        Toast.makeText(getContext(), getString mListMask.
toggleWinter()), Toast.LENGTH_SHORT ).show();
        updateUI();
    }
} );
mDifficulty.setOnClickListener(new View.OnClickListener()
{
    @Override
    public void onClick(View v) {
        Toast.makeText(getContext(),
getString mListMask.toggleDifficulty(
mRecipe.getDifficulty())), Toast.LENGTH_SHORT ).show();
        updateUI();
    }
} );
mType.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {

```

```

325                     Toast.makeText(getApplicationContext(),
326                                     getString(mListMask.toggleType(mRecipe.
327                                         getType()))),
327                                     LENGTH_SHORT).show();
328                                     updateUI());
329                                 }
330                               });
331                         mEditIcon.setOnClickListener(new View.OnClickListener() {
332                           @Override
333                           public void onClick(View v) {
334                             Intent intent= RecipeActivity.newIntent(
335                               getActivity(),mRecipe.getId());
336                               startActivity(intent);
337                           }
338                         });
339                         mPhotoView.setOnClickListener(new View.OnClickListener()
340                           {
341                             @Override
342                             public void onClick(View v) {
343                               Intent intent=RecipeDisplayActivity.newIntent(
344                               getActivity(),mRecipe.getId());
345                               startActivity(intent);
346                           }
347                           });
348                           public void bind(Recipe recipe){
349                             mRecipe=recipe;
350                             mTitleTextView.setText(mRecipe.getTitle());
351                             mSourceTextView.setText(getString(R.string.P1_de, mRecipe
352                               .getOwner().getName()));
353                             //mSourceTextView.setText(mRecipe.getFlag()); // for
354                             debug
355                             mRating.setRating((float) mRecipe.getNoteAvg());
356                             DecimalFormat df = new DecimalFormat("#.#");
357                             mNoteTextView.setText(df.format(mRecipe.getNoteAvg())+
358                               " ("+mRecipe.getNbNotes()+"')");
359                             mPhotoFile=CookBook.get(getActivity()).getPhotoFile(
360                               mRecipe);
361                             int idff= RecipeDifficulty.getIndex(mRecipe.getDifficulty
362                               ());
363                             String[] stringArray = getResources().getStringArray(R.
364                               array.recipe_difficulty_array);
365                             mDifficulty.setText(stringArray[idff]);
366                             int ityp= RecipeType.getIndex(mRecipe.getType());
367                             String[] stringArrayTyp = getResources().getStringArray(R
368                               .array.recipe_type_array);
369                             mType.setText(stringArrayTyp[ityp]);
370                             if (mPhotoFile==null || !mPhotoFile.exists()){
371                               mPhotoView.setImageDrawable(getResources().
372                                 getDrawable(R.drawable.ic_recipe_see));
373                             } else {
374                               Bitmap bitmap=PictureUtils.getScaledBitmap(mPhotoFile
375                                 .getPath(), getActivity());
376                               mPhotoView.setImageBitmap(bitmap);

```

```
366             }
367             mIceIcon.setImageResource(mRecipe.IsWinter()) ? R.
368                 drawable.ic_recipe_ice : R.drawable.ic_recipe_ice_disabled);
368             mSunIcon.setImageResource(mRecipe.IsSummer()) ? R.
369                 drawable.ic_recipe_sun : R.drawable.ic_recipe_sun_disabled);
369             mEditIcon.setVisibility((mRecipe.getOwner().getId() .
370             equals(mSession.getUser().getId())) ? View.VISIBLE : View.GONE);
370         }
371
372     @Override
373     public void onClick(View v) {
374
375     }
376 }
377
378     private class RecipeAdapter extends RecyclerView.Adapter<
379     RecipeHolder> {
380         private List<Recipe> mRecipes;
380         public RecipeAdapter(List<Recipe> recipes) {
381             mRecipes=recipes;
382         }
383
384         @NonNull
385         @Override
386         public RecipeHolder onCreateViewHolder(@NonNull ViewGroup
386             parent, int viewType) {
387             LayoutInflator layoutInflater=LayoutInflator.from(
387             getActivity());
388             return new RecipeHolder(layoutInflater, parent);
389         }
390
391         @Override
392         public void onBindViewHolder(@NonNull RecipeHolder
392             recipeHolder, int i) {
393             Recipe recipe=mRecipes.get(i);
394             recipeHolder.bind(recipe);
395         }
396
397         @Override
398         public int getItemCount() {
399             return mRecipes.size();
400         }
401
402         public void setRecipes(List<Recipe> recipes){
403             mRecipes=recipes;
404         }
405     }
406 }
```

```

1 package com.fdx.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.fdx.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             //fdx Log(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++) {

```

```

49         ing[i]=getString(getColumnIndex(RecipeTable.Cols.ING[i]));
50     ;
51     r.setIngredient(i+1, ing[i]);
52     String season = getString(getColumnIndex(RecipeTable.Cols.
53     .SEASON));
54     r.setSeason(RecipeSeason.valueOf(season));
55     String difficulty = getString(getColumnIndex(RecipeTable.Cols.
56     .DIFFICULTY));
57     r.setDifficulty(RecipeDifficulty.valueOf(difficulty));
58     String type = getString(getColumnIndex(RecipeTable.Cols.TYPE));
59     r.setType(RecipeType.valueOf(type));
60     String comments = getString(getColumnIndex(RecipeTable.Cols.
61     .COMMENTS));
62     r.getCommentsDeserialised(comments);
63     String status = getString(getColumnIndex(RecipeTable.Cols.
64     .STATUS));
65     r.setStatus(StatusRecipe.valueOf(status));
66     String notes = getString(getColumnIndex(RecipeTable.Cols.
67     .NOTES));
68     r.getNotesDeserialised(notes);
69     String message = getString(getColumnIndex(RecipeTable.Cols.
70     .MESSAGE));
71     r.setMessage(message);
72     String fromString = getString(getColumnIndex(RecipeTable.Cols.
73     .MESSAGE_FROM));
74     r.getFromDeserialized(fromString);
75     int tsrecipe = getInt(getColumnIndex(RecipeTable.Cols.
76     .TS_RECIPE));
77     r.updateTS(AsynCallFlag.NEWRECIPE, (tsrecipe==1));
78     int tsphoto = getInt(getColumnIndex(RecipeTable.Cols.TS_PHOTO));
79     r.updateTS(AsynCallFlag.NEWPHOTO, (tsphoto==1));
80     int tscomment = getInt(getColumnIndex(RecipeTable.Cols.
81     .TS_COMMENT));
82     r.updateTS(AsynCallFlag.NEWCOMMENT, (tscomment==1));
83     int tsnote = getInt(getColumnIndex(RecipeTable.Cols.TS_NOTE));
84     ;
85     r.updateTS(AsynCallFlag.NEWRATING, (tsnote==1));
86     return r;
87 }
88 }
89

```

```
1 package com.fdx.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.fdx.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.fdx.cookbook;
2
3 import android.content.DialogInterface;
4 import android.content.Intent;
5 import android.graphics.Bitmap;
6 import android.os.AsyncTask;
7 import android.os.Bundle;
8 import android.support.v4.app.Fragment;
9 import android.support.v7.app.AlertDialog;
10 import android.text.Editable;
11 import android.text.TextWatcher;
12 import android.view.LayoutInflater;
13 import android.view.Menu;
14 import android.view.MenuInflater;
15 import android.view.MenuItem;
16 import android.view.View;
17 import android.view.ViewGroup;
18 import android.widget.EditText;
19 import android.widget.ImageView;
20 import android.widget.LinearLayout;
21 import android.widget.RatingBar;
22 import android.widget ScrollView;
23 import android.widget.TextView;
24 import android.widget.Toast;
25
26 import java.io.File;
27 import java.io.InputStream;
28 import java.net.HttpURLConnection;
29 import java.net.URL;
30 import java.text.DecimalFormat;
31 import java.util.HashMap;
32 import java.util.UUID;
33 import java.util.regex.Pattern;
34
35 public class RecipeDisplayFragment extends Fragment {
36     private static final String ARG_RECIPE_ID="recipe_id";
37     private static final String TAG = "CB_RecipeDisplayFrag";
38     private Recipe mRecipe;
39     private File mPhotoFile;
40     private int mStepNb;
41     private int mIngNb;
42     private String newcomment;
43     private String DEFAULT_URL="https://www.cookbookfamily.com";
44     private SessionInfo mSession;
45     private ImageView mDPhotoView;
46     private TextView mDTitleText;
47     private RatingBar mDRatingBar;
48     private TextView mDRatingBarText;
49     private TextView mDAuthorText;
50     private TextView mDDifficulty;
51     private TextView mDType;
52     private ImageView mSunIcon;
53     private ImageView mIceIcon;
54     private TextView mDSourceText;
```

```

55     private TextView mDSourceUrl;
56     private TextView mDIngTitle;
57     private TextView mDStepTitle;
58     private TextView mDSourceTitle;
59     private TextView mDComTitle;
60     private String mToFamily;
61     private String mToMember;
62     private String mToMessage;
63     private TextView[] mDStepText;
64     private TextView[] mDIngText;
65     private TextView[] mDComText;
66     private EditText mDNexComment;
67     private ImageView mDEnterComment;
68     private ScrollView mScroll;
69     private final static Integer MINMAX[][]={{8,45},{1,25},{3,25}};
    // min max pour family, member, pwd strings
70     private static final String REGEX_FAMILY="[-_!?\w\p{javaLowerCase}\p{javaUpperCase}()\\p{Space}]*";
71     private static final String REGEX_MEMBER="[_\\w\p{javaLowerCase}\p{javaUpperCase}]*";
72
73     public static RecipeDisplayFragment newInstance(UUID recipeId) {
74         Bundle args=new Bundle();
75         args.putSerializable(ARG_RECIPE_ID, recipeId);
76         RecipeDisplayFragment fragment=new RecipeDisplayFragment();
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         UUID recipeId=(UUID) getArguments().getSerializable(
86             ARG_RECIPE_ID);
87         mRecipe=CookBook.get(getActivity()).getRecipe(recipeId);
88         mPhotoFile=CookBook.get(getActivity()).getPhotoFile(mRecipe);
89         mSession= SessionInfo.get(getActivity());
90         setHasOptionsMenu(true);
91         mStepNb=mRecipe.getNbStep();
92         mIngNb=mRecipe.getNbIng();
93         mToFamily="";
94         mToMember="";
95     }
96     @Override
97     public void onPause(){
98         super.onPause();
99         CookBook.get(getActivity()).updateRecipe(mRecipe);
100    }
101    @Override
102    public void onCreateOptionsMenu(Menu menu, MenuInflater inflater)
103    {
104        super.onCreateOptionsMenu(menu, inflater);

```

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

```
104         inflater.inflate(R.menu.fragment_recipe_display, menu);
105         MenuItem menuItem = menu.findItem(R.id.recipe_menu_edit);
106         if(!mRecipe.getOwner().getId().equals(mSession.getUser().getId())){
107             menuItem.setVisible(false);
108         }
109     }
110
111     @Override
112     public boolean onOptionsItemSelected(MenuItem item) {
113         switch (item.getItemId()) {
114             case R.id.recipe_menu_report:
115                 Intent i=new Intent(Intent.ACTION_SEND);
116                 i.setType("text/plain");
117                 i.putExtra(Intent.EXTRA_TEXT, getRecipeReport());
118                 i.putExtra(Intent.EXTRA_SUBJECT, getString(R.string.
P2MU_send));
119                 startActivity(i);
120                 return true;
121             case R.id.recipe_menu_edit:
122                 Intent intent= RecipeActivity.newIntent(getActivity()
, mRecipe.getId());
123                 startActivity(intent);
124                 return true;
125             case R.id.recipe_mail:
126                 LinearLayout layout = new LinearLayout(getContext());
127                 layout.setOrientation(LinearLayout.VERTICAL);
128                 final EditText familyBox = new EditText(getContext());
129                 ;
130                 familyBox.setHint(getString(R.string.P0HF));
131                 layout.addView(familyBox);
132                 final EditText memberBox = new EditText(getContext());
133                 ;
134                 memberBox.setHint(getString(R.string.P0HM));
135                 layout.addView(memberBox);
136                 final EditText messageBox = new EditText(getContext());
137                 ;
138                 messageBox.setHint(getString(R.string.P4M_mes));
139                 layout.addView(messageBox);
140                 AlertDialog.Builder builder = new AlertDialog.Builder(
getContext());
141                 builder.setTitle(getString(R.string.P4M_title));
142                 builder.setView(layout);
143                 builder.setPositiveButton("OK", new DialogInterface.
OnClickListener() {
144                     @Override
145                     public void onClick(DialogInterface dialog, int
which) {
146                         mToFamily = familyBox.getText().toString();
147                         mToMember = memberBox.getText().toString();
148                         mToMessage = messageBox.getText().toString();
149                         Boolean b=(Pattern.matches(REGEX_FAMILY,
mToFamily));
150                         b=b&&(Pattern.matches(REGEX_MEMBER,mToMember));
151                         if(b)
152                             Toast.makeText(getApplicationContext(),
"Email sent successfully",Toast.LENGTH_SHORT).show();
153                         else
154                             Toast.makeText(getApplicationContext(),
"Email failed to send",Toast.LENGTH_SHORT).show();
155                     }
156                 });
157                 builder.show();
158             }
159         }
160     }
161 }
```

```

147 );
148             b=b&&(IsLenOK(mToFamily,MINMAX[0][0],MINMAX[0
149             ][1]));
150             b=b&&(IsLenOK(mToMember,MINMAX[1][0],MINMAX[1
151             ][1]));
152             b=b&&(Pattern.matches(REGEX_FAMILY,mToMessage
153             ));
154             if (b) {
155                 sendMailAsync sendmail = new sendMailAsync();
156                 sendmail.execute();
157             } else {
158                 Toast.makeText(getActivity(),getString(R.
159                     string.P4M_err),Toast.LENGTH_SHORT).show();
160             }
161         });
162         builder.setNegativeButton("Cancel", new
163             DialogInterface.OnClickListener() {
164                 @Override
165                 public void onClick(DialogInterface dialog, int
166                     which) {
167                     dialog.cancel();
168                 }
169             });
170         builder.show();
171         return true;
172     case R.id.recipe_menu_delete:
173         CookBook.get(getActivity()).markRecipeToDelete(
174             mRecipe);
175         getActivity().onBackPressed();
176     default:
177         return super.onOptionsItemSelected(item);
178     }
179 }
180
181     @Override
182     public View onCreateView(LayoutInflater inflater, ViewGroup
183         container, Bundle savedInstanceState){
184         final View v=inflater.inflate(R.layout.
185             fragment_display_recipe, container, false);
186         mScroll=(ScrollView) v.findViewById(R.id.
187             fragment_recipe_scroll);
188         mDTitleText =(TextView) v.findViewById(R.id.
189             recipe_display_title);
190         mDPhotoView=(ImageView) v.findViewById(R.id.
191             recipe_display_photo);
192         updatePhotoView();
193         mDRatingBar=(RatingBar) v.findViewById(R.id.
194             recipe_display_ratingBar);
195         mDRatingBarText=(TextView) v.findViewById(R.id.
196             recipe_display_ratingBar_txt);
197         mDDifficulty=(TextView) v.findViewById(R.id.
198             recipe_display_difficulty);
199         mDType=(TextView) v.findViewById(R.id.recipe_display_type);

```

```

186         mSunIcon=(ImageView) v.findViewById(R.id.recipe_img_sun) ;
187         mIceIcon=(ImageView) v.findViewById(R.id.recipe_img_ice) ;
188         mDAuthorText=(TextView) v.findViewById(R.id.
189             recipe_display_author);
190         mDSourceText=(TextView) v.findViewById(R.id.
191             recipe_display_source);
192         mDSourceUrl=(TextView) v.findViewById(R.id.
193             recipe_display_source_url);
194         mDIIngTitle=(TextView) v.findViewById(R.id.
195             recipe_display_title_ing);
196         mDStepTitle=(TextView) v.findViewById(R.id.
197             recipe_display_title_step);
198         mDSourceTitle=(TextView) v.findViewById(R.id.
199             recipe_display_source_title);
200         mDComTitle=(TextView)v.findViewById(R.id.
201             recipe_display_comment_title);
202         final int[] rIngID= {R.id.recipe_display_I01,R.id.
203             recipe_display_I02,R.id.recipe_display_I03,
204                 R.id.recipe_display_I04,R.id.recipe_display_I05,R.id.
205                 recipe_display_I06,
206                     R.id.recipe_display_I07,R.id.recipe_display_I08,R.id.
207                 recipe_display_I09,
208                     R.id.recipe_display_I10,R.id.recipe_display_I11,R.id.
209                 recipe_display_I12,
210                     R.id.recipe_display_I13,R.id.recipe_display_I14,R.id.
211                 recipe_display_I15};
212         mDIIngText= new TextView[mRecipe.getNbIngMax()];
213         for(int i=0;i<mRecipe.getNbIngMax();i++) {
214             mDIIngText[i] = (TextView) v.findViewById(rIngID[i]);
215         }
216         final int[] rID= {R.id.recipe_display_S1,R.id.
217             recipe_display_S2,R.id.recipe_display_S3,
218                 R.id.recipe_display_S4,R.id.recipe_display_S5,R.id.
219                 recipe_display_S6,
220                     R.id.recipe_display_S7,R.id.recipe_display_S8,R.id.
221                 recipe_display_S9};
222         mDStepText=new TextView[mRecipe.getNbStepMax()];
223         for(int i=0;i<mRecipe.getNbStepMax();i++) {
224             mDStepText[i] = (TextView) v.findViewById(rID[i]);
225         }
226         final int[] rComID= {R.id.recipe_display_C01,R.id.
227             recipe_display_C02,R.id.recipe_display_C03,
228                 R.id.recipe_display_C04,R.id.recipe_display_C05,R.id.
229                 recipe_display_C06,
230                     R.id.recipe_display_C07,R.id.recipe_display_C08,R.id.
231                 recipe_display_C09,
232                     R.id.recipe_display_C10,R.id.recipe_display_C11,R.id.
233                 recipe_display_C12,
234                     R.id.recipe_display_C13,R.id.recipe_display_C14,R.id.
235                 recipe_display_C15,
236                     R.id.recipe_display_C16,R.id.recipe_display_C17,R.id.
237                 recipe_display_C18,
238                     R.id.recipe_display_C19,R.id.recipe_display_C20};
239         mDComText=new TextView[mRecipe.getNbComMax()];

```

```

219         for(int i=0;i<mRecipe.getNbComMax();i++) {
220             mDComText[i] = (TextView) v.findViewById(rComID[i]);
221         }
222         updateUI();
223         mDNexComment=(EditText) v.findViewById(R.id.
224             recipe_display_enter_comment);
224         mDNexComment.setText("");
225         mDNexComment.setHint(getString(R.string.P2C_hint));
226         //todo test comment versus pattern
227         mDNexComment.addTextChangedListener(new TextWatcher() {
228             @Override
229             public void beforeTextChanged(CharSequence s, int start,
230                 int count, int after) {
230
231             }
232
233             @Override
234             public void onTextChanged(CharSequence s, int start, int
234                 before, int count) {
235                 newcomment=s.toString();
236             }
237
238             @Override
239             public void afterTextChanged(Editable s) {
240
241             }
242         });
243         mDEnterComment=(ImageView) v.findViewById(R.id.
244             recipe_img_enter);
244         mDEnterComment.setOnClickListener(new View.OnClickListener()
245         {
246             @Override
247             public void onClick(View v) {
247                 mRecipe.addComment(new Comment(newcomment, mSession.
248                     getUser()));
248                 mRecipe.updateTS(AsynCallFlag.NEWCOMMENT,true);
249                 mDNexComment.setText("...");
250                 updateUI();
251             }
252         });
253         return v;
254     }
255     private void updatePhotoView(){
256         if (mPhotoFile==null || !mPhotoFile.exists()){
257             mDPhotoView.setImageDrawable(getResources().getDrawable(R
257                 .drawable.ic_recipe_camera));
258         } else {
259             Bitmap bitmap=PictureUtils.getScaledBitmap(mPhotoFile.
259                 getPath(), getActivity());
260             mDPhotoView.setImageBitmap(bitmap);
261         }
262     }
263     private void updateUI(){
264         String s,s2;

```

```

265         User u=mRecipe.getOwner();
266         int ingMax=mRecipe.getNbIngMax();
267         int stepMax=mRecipe.getNbStepMax();
268         int comMax=mRecipe.getNbComMax();
269         int NbCom=mRecipe.getComments().size();
270         int gone=View.GONE, visible=View.VISIBLE;
271         DecimalFormat df = new DecimalFormat("#.#");
272         mDTitleText.setText(mRecipe.getTitle());
273         mDRatingBar.setRating((float) mRecipe.getNoteAvg());
274         mDRatingBarText.setText(df.format(mRecipe.getNoteAvg())+" ("+
275             + mRecipe.getNotes().size()+""));
276         s=getString(R.string.P2U_txt,u.getName(),u.getFamily());
277         int idiff= RecipeDifficulty.getIndex(mRecipe.getDifficulty());
278 ;
279         String[] stringArrayDiff = getResources().getStringArray(R.
280             array.recipe_difficulty_array);
281         mDDifficulty.setText(stringArrayDiff[idiff]);
282         int ityp= RecipeType.getIndex(mRecipe.getType());
283         String[] stringArrayTyp = getResources().getStringArray(R.
284             array.recipe_type_array);
285         mDType.setText(stringArrayTyp[ityp]);
286         mSunIcon.setImageResource(mRecipe.IsSummer() ? R.drawable.
287             ic_recipe_sun : R.drawable.ic_recipe_sun_disabled);
288         mIceIcon.setImageResource(mRecipe.IsWinter() ? R.drawable.
289             ic_recipe_ice : R.drawable.ic_recipe_ice_disabled);
290         mDAuthorText.setText(s);
291         // source
292         s=mRecipe.getSource();
293         s2=mRecipe.getSource_url_name();
294         if (s.equals("")) mDSourceText.setVisibility(gone);
295         else mDSourceText.setText(s);
296         if ((s2.equals(DEFAULT_URL)) || (s2.equals(""))) {
297             mDSourceUrl.setVisibility(gone);
298             if (s.equals("")) mDSourceTitle.setVisibility(gone);
299         }
300         else mDSourceUrl.setText(s2);
301         // ingredients
302         s=getString(R.string.P2IT, ""+mRecipe.getNbPers());
303         if (mRecipe.getNbIng()>0) mDIngTitle.setText(s); else
304             mDIngTitle.setVisibility(gone);
305         for(int i=0;i<ingMax;i++){
306             if (mIngNb>0){mDIngText[i].setText("- "+mRecipe.
307                 getIngredient(i+1));}
308             if (i>=0){mDIngText[i].setVisibility((mIngNb>i)? visible:
309                 gone);}
310         }
311         // steps
312         if (mRecipe.getNbStep()==0) mDStepTitle.setVisibility(gone);
313         for(int i=0;i<stepMax;i++){
314             if (mStepNb>0){mDStepText[i].setText((i+1)+"." "+mRecipe.
315                 getStep(i+1));}
316             if (i>=0){mDStepText[i].setVisibility((mStepNb>i)? visible:
317                 gone);}
318         }

```

```

308         // comments
309         s=getString(R.string.P2CT, ""+mRecipe.getComments().size());
310         mDComTitle.setText(s);
311         for(int i=0;i<comMax;i++) {
312             if (NbCom>0){
313                 if (i<NbCom) {mDComText[i].setText("- "+mRecipe.
314                     getComment(NbCom-i-1).toTxt());}
315                 else {mDComText[i].setText("");}
316             if (i>=0){mDComText[i].setVisibility((NbCom>i)? visible:
317                 gone);}
318         }
319         private Boolean IsLenOK(String s, int min, int max) {
320             int l=s.length();
321             return ((l>min)&&(l<max));
322         }
323         private String getRecipeReport() {
324             String report;
325             Integer iplus;
326             report =getString(R.string.P2RE_title, mRecipe.getTitle())+"\\
327             \n";
328             report +=getString(R.string.P2RE_user,mRecipe.getOwner()).
329             getNameComplete()+"\n";
330             if(!mRecipe.getSource().equals("")){
331                 report += getString(R.string.P2RE_src, mRecipe.getSource
332             ()+"\n");
333             }
334             if (mRecipe.getNbIng()>0){
335                 report +=getString(R.string.P1R_ing)+"\n";
336                 for(int i=0;i<mRecipe.getNbIng();i++){
337                     report += getString(R.string.P2RE_ing, mRecipe.
338                     getIngredient(i+1))+"\n";
339                 }
340                 if (mRecipe.getNbStep()>0) {
341                     report +=getString(R.string.P1R_step)+"\n";
342                     for (int i = 0; i < mRecipe.getNbStep(); i++) {
343                         iplus = i + 1;
344                         report += getString(R.string.P2RE_step, iplus + "",

345                         mRecipe.getStep(i + 1)) + "\n";
346                     }
347                 }
348                 report +=getString(R.string.P2RE_end);
349             return report;
350         }
351
352     /**
353     ****
354     ****

```

```

353     *
354     * ASYNC
355     *
356
357     class sendMailAsync extends AsyncTask<Void, Void, Boolean> {
358         private static final String PHP204 = "return204.php";
359         private static final String MYSQLDATEFORMAT="yyyy-MM-dd HH:mm
:ss";
360         private static final String PHPSENDMAIL = "sendmail.php";
361         @Override
362         protected void onPreExecute() {
363             super.onPreExecute();
364             Toast.makeText(getActivity(), getString(R.string.P4_start)
, Toast.LENGTH_SHORT).show();
365         }
366
367         @Override
368         protected void onPostExecute(Boolean b) {
369             super.onPostExecute(b);
370             if (b) {
371                 Toast.makeText(getActivity(), getString(R.string.
P4_OK,mToMember,mToFamily), Toast.LENGTH_LONG).show();
372             }
373             else {
374                 Toast.makeText(getActivity(), getString(R.string.
P4_fail), Toast.LENGTH_LONG).show();
375             }
376         }
377
378         @Override
379         protected Boolean doInBackground(Void... voids) {
380             NetworkUtils mNetUtils = new NetworkUtils(getApplicationContext());
381             if (!test204()) {
382                 return false;
383             }
384             HashMap<String, String> data = new HashMap<>();
385             data.put("idrecipe", mRecipe.getId().toString());
386             if ((mToFamily==null) || (mToFamily.length()<5)) return
false;
387             data.put("family",mToFamily.trim());
388             if ((mToMember==null) || (mToMember.length()<5)) return
false;
389             data.put("membre", mToMember.trim());
390             data.put("idfrom", mSession.getUser().getId().toString())
;
391             if (mToMessage==null) return false;
392             data.put("message", mToMessage.trim());
393             String result = mNetUtils.sendPostRequestJson(mSession.
getURLPath() + PHPSENDMAIL, data);
394             if (result==null) return false;
395             if (!result.trim().equals("1")) {

```

```
396             //fdx Log(TAG, "Retour de "+PHPSENDMAIL+" =>" + result  
397             +"<" );  
398             return false;  
399         return true;  
400     }  
401     private Boolean test204() {  
402         try {  
403             URL url = new URL(mSession.getURLPath() + PHP204);  
404             HttpURLConnection conn = (HttpURLConnection) url.  
openConnection();  
405             conn.setConnectTimeout(mSession.getConnectTimeout());  
406             conn.setReadTimeout(mSession.getReadTimeout());  
407             conn.setRequestMethod("HEAD");  
408             InputStream in = conn.getInputStream();  
409             int status = conn.getResponseCode();  
410             in.close();  
411             conn.disconnect();  
412             return (status == HttpURLConnection.HTTP_NO_CONTENT);  
413         } catch (Exception e) {  
414             //fdx Log(TAG, "Test 204 : " + e);  
415             return false;  
416         }  
417     }  
418 }  
419 }  
420 }  
421 }
```

```
1 package com.fdx.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 import com.fdx.cookbook.R;
9
10 public abstract class SingleFragmentActivity extends AppCompatActivity
11 {
12     protected abstract Fragment createFragment();
13     @Override
14     protected void onCreate(Bundle savedInstanceState) {
15         super.onCreate(savedInstanceState);
16         setContentView(R.layout.activity_fragment);
17         FragmentManager fm = getSupportFragmentManager();
18         Fragment fragment = fm.findFragmentById(R.id.
19             fragment_container);
20         if (fragment == null) {
21             fragment = createFragment();
22             fm.beginTransaction()
23                 .add(R.id.fragment_container, fragment)
24                 .commit();
25     }
26 }
```

```
1 package com.fdx.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.fdx.cookbook.
10     recipe_id";
11     public static Intent newIntent(Context packageContexte) {
12         Intent intent=new Intent(packageContexte,
13         RecipeMailDisplayActivity.class);
14         return intent;
15     }
16     @Override
17     protected Fragment createFragment() {
18         return RecipeMailDisplayFragment.newInstance();
19     }
20 }
```

```

1 package com.fdx.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.view.LayoutInflater;
10 import android.view.View;
11 import android.view.ViewGroup;
12 import android.widget.ImageView;
13 import android.widget.TextView;
14 import android.widget.Toast;
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         RecipeMailDisplayFragment fragment=new
28             RecipeMailDisplayFragment();
29         return fragment;
30     }
31
32     @Override
33     public void onCreate(Bundle savedInstanceState) {
34         super.onCreate(savedInstanceState);
35         setHasOptionsMenu(true);
36         mSession= SessionInfo.get(getActivity());
37     }
38
39     @Override
40     public View onCreateView(LayoutInflater inflater, ViewGroup
41         container,
42         Bundle savedInstanceState) {
43         View view = inflater.inflate(R.layout.fragment_recipe_list,
44             container, false);
45         mRecipeRecyclerView = (RecyclerView) view.findViewById(R.id.
46             recipe_recycler_view);
47         mRecipeRecyclerView.setLayoutManager(new LinearLayoutManager(
48             getActivity()));
49         updateUI();
50         return view;
51     }
52
53     @Override
54     public void onResume() {

```

```

50         super.onResume();
51         updateUI();
52     }
53
54     private void updateUI() {
55         CookBook cookbook=CookBook.get(getActivity());
56         List<Recipe> recipes_in=cookbook.getRecipes();
57         List<Recipe> recipes=new ArrayList<>();
58         for(Recipe r:recipes_in){
59             if (r.IsMessage()) recipes.add(r);
60         }
61         if (recipes.isEmpty()){
62             Toast.makeText(getContext(), getString(R.string.P4M0),
63             Toast.LENGTH_LONG).show();
64         }
65         if (mAdapter==null){
66             mAdapter=new RecipeMailDisplayFragment.RecipeAdapter(
67             recipes);
68             mRecipeRecyclerView.setAdapter(mAdapter);
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);
91             mMessage=(TextView) itemView.findViewById(R.id.
92             mail_display_message);
93             mFrom=(TextView) itemView.findViewById(R.id.
94             mail_display_author);
95             mDelete=(ImageView) itemView.findViewById(R.id.
96             mail_display_delete);
97             mAdd=(ImageView) itemView.findViewById(R.id.
98             mail_display_add);
99             mPhotoView=(ImageView) itemView.findViewById(R.id.
100            recipe_MD_photo);

```

```

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

```

```
140    onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {
141        LayoutInflator layoutInflater=LayoutInflator.from(
142            getActivity());
143        return new RecipeMailDisplayFragment.RecipeHolder(
144            layoutInflater, parent);
145    }
146
147    @Override
148    public void onBindViewHolder(@NonNull
149        RecipeMailDisplayFragment.RecipeHolder recipeHolder, int i) {
150        Recipe recipe=mRecipes.get(i);
151        recipeHolder.bind(recipe);
152    }
153
154    @Override
155    public int getItemCount() {
156        return mRecipes.size();
157    }
158
159    public void setRecipes(List<Recipe> recipes){
160        mRecipes=recipes;
161    }
162}
```