

```
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(){
21        mFamily="not found";
22        mName="not found";
23        mId =UUID.randomUUID();
24        mDate=new Date();
25    }
26    public User(UUID uuid){
27        mId =uuid;
28        // waiting for user database
29        //todo erase !
30        switch(mId.toString()){
31            case "c81d4e2e-bcf2-11e6-869b-7df92533d2db":
32                mFamily="Devaux_Lion de ML";
33                mName="Fabrice";
34                return;
35            case "c81d4e2e-bcf2-11e7-869b-7df92533d2db":
36                mFamily="Devaux_Lion de ML";
37                mName="Lucile";
38                return;
39            case "c81d4e2e-bcf3-11e6-869b-7df92533d2db":
40                mFamily="Devaux_Lion de ML";
41                mName="Véronique";
42                return;
43            default:
44                mFamily="not found";
45                mName="not found";
46        }
47    }
48
49    public UUID getId() {
50        return mId;
51    }
52
53    public void setId(UUID id) {
54        this.mId = id;
55    }
56
57    public String getFamily() {

```

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

```

1 package com.fdx.cookbook;
2
3 import android.graphics.Bitmap;
4
5 import com.google.gson.Gson;
6 import com.google.gson.reflect.TypeToken;
7
8 import java.lang.reflect.Type;
9 import java.net.MalformedURLException;
10 import java.net.URL;
11 import java.util.ArrayList;
12 import java.util.Calendar;
13 import java.util.Date;
14 import java.util.UUID;
15
16
17 enum StatusRecipe {Submitted,Visible, Deleted }
18 public class Recipe {
19     private UUID mId;
20     private User mOwner;
21     private Date mLastUpdateRecipe;
22     private Date mLastUpdatePhoto;
23     private String mTitle;
24     private String mSource;
25     private URL mSource_url;
26     private int mNbPers;
27     private String[] mSteps;
28     private double mNoteAvg;
29     private ArrayList<Note> mNotes;
30     private ArrayList<Comment> mComments;
31     private RecipeSeason mSeason;
32     private RecipeType mType;
33     private RecipeDifficulty mDifficulty;
34     private String[] mIngredients;
35     private StatusRecipe mStatus;
36     private String mMessage;
37     private User mIdFrom;
38     private Boolean mTS_recipe;
39     private Boolean mTS_photo;
40     private Boolean mTS_comment;
41     private Boolean mTS_note;
42     private Bitmap mImage;
43
44     private static final int NBSTEP_MAX=9;
45     private static final int NBING_MAX=15;
46     private static final int NBCOM_MAX=20;
47     private String TAG="CB_Recipe";
48     private String DEFAULT_URL="https://www.cookbookfamily.com";
49     private String UUIDNULL="00000000-0000-0000-0000-000000000000";
50
51
52
53     public Recipe() {
54         this(UUID.randomUUID());
55     }
56
57     public Recipe( UUID id){

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58         mId=id;
59         mTitle="";
60         mLastUpdateRecipe =new Date();
61         Calendar c=Calendar.getInstance();
62         c.set(2000,0,1,0,0, 0);
63         mLastUpdateRecipe=c.getTime();
64         mLastUpdatePhoto=c.getTime();
65         mSteps = new String[NBSTEP_MAX];
66         mIngredients= new String[NBING_MAX];
67         for(int i=0;i<NBSTEP_MAX;i++){mSteps[i]="";}
68         for(int i=0;i<NBING_MAX;i++){mIngredients[i]="";}
69         mNbPers=4;
70         mSeason=RecipeSeason.ALLYEAR;
71         mType=RecipeType.MAIN;
72         mDifficulty=RecipeDifficulty.UNDEFINED;
73         mStatus=StatusRecipe.Visible;
74         mComments=new ArrayList<Comment>();
75         mNotes=new ArrayList<Note>();
76         mSource="";
77         mIdFrom=new User(UUID.fromString( UUIDNULL));
78         try {mSource_url=new URL(DEFAULT_URL);
79     } catch (MalformedURLException e) {}
80         mTS_recipe=false;
81         mTS_photo=false;
82         mTS_comment=false;
83         mTS_note=false;
84     }
85
86     public Date getDate() {
87         return mLastUpdateRecipe;
88     }
89
90     public Date getDatePhoto() {
91         return mLastUpdatePhoto;
92     }
93
94     public String getTitle() {
95         return mTitle;
96     }
97
98     public void setDate(Date date) {mLastUpdateRecipe = date;}
99
100    public void setDatePhoto(Date date) {mLastUpdatePhoto = date;}
101
102    public void setTitle(String title) {
103        mTitle = title;
104    }
105
106    public int getNbPers() {
107        return mNbPers;
108    }
109
110    public void setNbPers(int nbPers) {
111        mNbPers = nbPers;
112    }
113
114    public String getMessage() {

```

```

115     return mMessage;
116 }
117
118 public void setMessage(String message) {
119     mMessage=message;
120 }
121
122
123 // -----STEP-----
124 public void setStep(Integer i, String step) {
125     if ((i > 0) && (i <= NBSTEP_MAX)) {
126         mSteps[i - 1] = step;
127     }
128 }
129
130 public String getStep(Integer i){
131     if ((i>0)&&(i<=NBSTEP_MAX)) {return mSteps[i-1];}
132     else{ return "";}
133 }
134
135 public int getNbStep(){
136     int j=0;
137     for(int i=NBSTEP_MAX; i>0; i--){
138         if (!mSteps[i-1].isEmpty()) {j=i; break;}
139     }
140 }
141
142 public int getNbStepMax(){return NBSTEP_MAX;}
143
144 //-----Ingredients-----
145 public void setIngredient(Integer i, String ing) {
146     if ((i > 0) && (i <= NBING_MAX)) {
147         mIngredients[i-1] = ing;
148     }
149 }
150
151 public String getIngredient(Integer i){
152     if ((i>0)&&(i<=NBING_MAX)) {return mIngredients[i-1];}
153     else{ return "";}
154 }
155 public int getNbIng(){
156     int j=0;
157     for(int i=NBING_MAX; i>0; i--){
158         if (!mIngredients[i-1].isEmpty()) {j=i; break;}
159     }
160 }
161
162 public int getNbIngMax(){return NBING_MAX;}
163
164 //----- Users -----
165 public UUID getId() {
166     return mId;
167 }
168
169 public User getUserFrom() {
170     return mIdFrom;
171 }

```

```

172
173     public void setUserFrom(User idFrom) {
174         mIdFrom = idFrom;
175     }
176
177     public void setId(UUID id) {mId = id; }
178
179     public User getOwner() {
180         return mOwner;
181     }
182
183     public String getOwnerIdString() {
184         return mOwner.getId().toString();
185     }
186
187     public void setOwner(User owner) {
188         mOwner = owner;
189     }
190
191     //----- Source -----
192     public String getSource() {
193         if (mSource==null) return "";
194         return mSource;
195     }
196     public void setSource(String source) {
197         mSource = source;
198     }
199     public URL getSource_url() {
200         return mSource_url;
201     }
202
203     public String getSource_url_name() {
204         String ret=mSource_url.toString();
205         if (ret.equals("https:") || ret.equals("http:")){ret="";}
206         return ret;
207     }
208
209     public void setSource_url(URL source_url) {
210         mSource_url = source_url;
211     }
212
213     // -----Enum -----
214
215     public RecipeSeason getSeason() {
216         return mSeason;
217     }
218
219     public void setSeason(RecipeSeason season) {
220         mSeason = season;
221     }
222
223     public boolean IsSummer(){
224         switch (mSeason) {
225             case SUMMER:
226                 return true;
227             case ALLYEAR:
228                 return true;

```

```

229         default:
230             return false;
231     }
232 }
233 public boolean IsWinter(){
234     switch (mSeason) {
235         case WINTER:
236             return true;
237         case ALLYEAR:
238             return true;
239         default:
240             return false;
241     }
242 }
243 public RecipeType getType() {
244     return mType;
245 }
246 public void setType(RecipeType type) {
247     mType = type;
248 }
249
250 public RecipeDifficulty getDifficulty() {
251     return mDifficulty;
252 }
253
254 public void setDifficulty(RecipeDifficulty difficulty) {
255     mDifficulty = difficulty;
256 }
257
258 public StatusRecipe getStatus() {return mStatus;}
259 public void setStatus(StatusRecipe s) {
260     mStatus = s;
261 }
262 public boolean IsVisible(){
263     if (mStatus==StatusRecipe.Visible) {return true;}
264     return false;
265 }
266 public boolean IsMessage(){
267     if (mStatus==StatusRecipe.Submitted) {return true;}
268     return false;
269 }
270 public boolean IsMarkedDeleted(){
271     if (mStatus==StatusRecipe.Deleted) {return true;}
272     return false;
273 }
274
275 public void updateTS(AsynCallFlag asyn, Boolean b){
276     switch(asyn){
277         case NEWRECIPE:{mTS_recipe=b;return;}
278         case NEWPHOTO:{mTS_photo=b;return;}
279         case NEWRATING:{mTS_note=b;return;}
280         case NEWCOMMENT:{mTS_comment=b;return;}
281     }
282     return;
283 }
284
285 public int getTS(AsynCallFlag asyn){

```

```

286        Boolean b=false;
287        switch(asyn){
288            case NEWRECIPE:{b=mTS_recipe; break;}
289            case NEWPHOTO:{b=mTS_photo; break;}
290            case NEWRATING:{b=mTS_note; break;}
291            case NEWCOMMENT:{b=mTS_comment; break;}
292        }
293        return (b ? 1:0);
294    }
295
296    //----- photo filename-----
297    public String getPhotoFilename(){
298        return "IMG"+getId().toString() + ".jpg";
299    }
300
301    //----- ArrayList Comments et Notes
302
303    public void addComment(Comment c){ mComments.add(c);}
304
305    public ArrayList<Comment> getComments() {return mComments;}
306
307    public Comment getComment(int i){
308        if (i<mComments.size()){
309            return mComments.get(i);
310        } else {return null;}
311    }
312
313    public int getNbComMax(){return NBCOM_MAX;} // nb max affiché
314
315    public void addNote(Note note){ mNotes.add(note);}
316
317    public ArrayList<Note> getNotes() {return mNotes;}
318
319    public Note getNote(int i){
320        if (mNotes==null) return null;
321        if (i<mNotes.size()) { return mNotes.get(i);}
322        else {return null;}
323    }
324
325    public double getNoteAvg() {
326        mNoteAvg=0;
327        if (mNotes==null) return mNoteAvg;
328        if (mNotes.size()!=0) {
329            for(Note n:mNotes){mNoteAvg+=n.getNote();}
330            mNoteAvg=mNoteAvg/mNotes.size();
331        } else {mNoteAvg=0;}
332        return mNoteAvg;
333    }
334    public int getNbNotes() {
335        if (mNotes==null) return 0;
336        if (mNotes.isEmpty()) return 0;
337        return mNotes.size();
338    }
339
340    //----- Serialisation -----
341    public String getSerializedComments(){

```

```

342         Gson gson = new Gson();
343         return gson.toJson(mComments);
344     }
345
346     public void getCommentsDeserialised(String raw){
347         Gson gson=new Gson();
348         Type listOfNotesObject = new TypeToken<ArrayList<Comment>>()
349             >>() {}.getType();
350         mComments=gson.fromJson(raw, listOfNotesObject);
351     }
352     public String getSerializedOwner(){
353         Gson gson = new Gson();
354         return gson.toJson(mOwner);
355     }
356     public String getSerializedFrom(){
357         Gson gson = new Gson();
358         return gson.toJson(mIdFrom);
359     }
360     public void getOwnerDeserialized(String raw){
361         Gson gson=new Gson();
362         mOwner=gson.fromJson(raw, User.class);
363     }
364     public void getFromDeserialized(String raw){
365         Gson gson=new Gson();
366         mIdFrom=gson.fromJson(raw, User.class);
367     }
368     public String getSerializedNotes(){
369         Gson gson = new Gson();
370         return gson.toJson(mNotes);
371     }
372
373     public void getNotesDeserialised(String raw){
374         Gson gson=new Gson();
375         Type listOfNotesObject = new TypeToken<ArrayList<Note>>() {}.getType();
376         mNotes=gson.fromJson(raw, listOfNotesObject);
377     }
378
379     // ***** tests *****
380     public Boolean hasNotChangedSince(Recipe r){
381         if (!mId.toString().equals(r.getId().toString())) return
382             false;
383         if (!mOwner.getId().toString().equals(r.getOwner().getId().toString()))
384             return false;
385         if (!mTitle.equals(r.getTitle())) return false;
386         if (!mSource.equals(r.getSource())) return false;
387         if (!mSource_url.equals(r.getSource_url())) return false;
388         if (mNbPers!=r.getNbPers()) return false;
389         for (int i = 0; i < r.getNbStepMax(); i++) {
390             if (!mSteps[i].equals(r.getStep(i+1))) return false;
391         }
392         for (int i = 0; i < r.getNbIngMax(); i++) {
393             if (!mIngredients[i].equals(r.getIngredient(i + 1)))
394                 return false;
395         }
396         if (!mSeason.toString().equals(r.getSeason().toString()))

```

```
393     return false;
394     if (!mType.toString().equals(r.getType().toString())) return
395         false;
395     if (!mDifficulty.toString().equals(r.getDifficulty().toString()
396         )) return false;
396     return true;
397 }
398
399     public boolean containQuery(String s){ //for search request
400         if (sc(mTitle, s)) return true;
401         if (sc(mOwner.getFamily().toString(), s)) return true;
402         for(String sloop:mIngredients){
403             if (sloop==null) break;
404             if (sc(sloop, s)) return true;
405         }
406         for(String sloop:mSteps){
407             if (sloop==null) break;
408             if (sc(sloop, s)) return true;
409         }
410         for(Comment c:mComments){
411             if (c==null) break;
412             if (sc(c.getText(), s)) return true;
413         }
414     return false;
415 }
416
417     private boolean sc(String s1, String s2){
418         return s1.toLowerCase().contains(s2.toLowerCase());
419     }
420
421     public boolean isTheSame(Recipe rtotest){
422         return (rtotest.getId().toString().equals(mId.toString()));
423     }
424 // -----Image -----
425
426     public Bitmap getImage() {
427         return mImage;
428     }
429
430     public void setImage(Bitmap image) {
431         mImage = image;
432     }
433 }
434
```

```

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
```

```

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         ContentValues values=getContentValues(r);
50         mDatabase.update(RecipeDbSchema.RecipeTable.NAME, values,
51             RecipeDbSchema.RecipeTable.Cols.UUID+" =?",
52             new String[] {uuidString});
53     }
54
55     private RecipeCursorWrapper queryRecipes(String whereClause,
56     String[] whereArgs){
57         Cursor cursor=mDatabase.query(

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```

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

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112         values.put(RecipeDbSchema.RecipeTable.Cols.OWNER, recipe.
113             getSerializedOwner());
114         values.put(RecipeDbSchema.RecipeTable.Cols.TITLE, recipe.
115             getTitle());
116         values.put(RecipeDbSchema.RecipeTable.Cols.SOURCE, recipe.
117             getSource());
118         values.put(RecipeDbSchema.RecipeTable.Cols.SOURCE_URL, recipe
119             .getSource_url().toString());
120         values.put(RecipeDbSchema.RecipeTable.Cols.DATE, recipe.
121             getDate().getTime());
122         if (recipe.getDatePhoto()!=null){
123             values.put(RecipeDbSchema.RecipeTable.Cols.DATE_PHOTO, recipe
124                 .getDatePhoto().getTime());
125             values.put(RecipeDbSchema.RecipeTable.Cols.NBPERS, recipe.
126                 getNbPers());
127             for(int i=0;i<recipe.getNbStepMax();i++){
128                 values.put(RecipeDbSchema.RecipeTable.Cols.STEP[i],
129                     recipe.getStep(i+1));
130             }
131             for(int i=0;i<recipe.getNbIngMax();i++){
132                 values.put(RecipeDbSchema.RecipeTable.Cols.ING[i], recipe
133                     .getIngredient(i+1));
134             }
135             values.put(RecipeDbSchema.RecipeTable.Cols.SEASON, recipe.
136                 getSeason().name());
137             values.put(RecipeDbSchema.RecipeTable.Cols.DIFFICULTY, recipe
138                 .getDifficulty().name());
139             values.put(RecipeDbSchema.RecipeTable.Cols.TYPE, recipe.
140                 getType().name());
141             values.put(RecipeDbSchema.RecipeTable.Cols.COMMENTS, recipe.
142                 getSerializedComments());
143             values.put(RecipeDbSchema.RecipeTable.Cols.STATUS, recipe.
144                 getStatus().toString());
145             values.put(RecipeDbSchema.RecipeTable.Cols.NOTES, recipe.
146                 getSerializedNotes());
147             values.put(RecipeDbSchema.RecipeTable.Cols.MESSAGE, recipe.
148                 getMessage());
149             values.put(RecipeDbSchema.RecipeTable.Cols.MESSAGE_FROM,
150                 recipe.getSerializedFrom());
151             values.put(RecipeDbSchema.RecipeTable.Cols.TS_RECIPE, recipe.
152                 getTS(AsynCallFlag.NEWRECIPE));
153             values.put(RecipeDbSchema.RecipeTable.Cols.TS_PHOTO, recipe.
154                 getTS(AsynCallFlag.NEWPHOTO));
155             values.put(RecipeDbSchema.RecipeTable.Cols.TS_COMMENT, recipe
156                 .getTS(AsynCallFlag.NEWCOMMENT));
157             values.put(RecipeDbSchema.RecipeTable.Cols.TS_NOTE, recipe.
158                 getTS(AsynCallFlag.NEWRATING));
159         }
160     }
161     public File getPhotoFile(Recipe r){
162         if (r==null) {return null;}
163         File filesDir= mContext.getFilesDir();
164         return new File(filesDir, r.getPhotoFilename());
165     }
166     public Boolean deleteImage(Recipe r){

```

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

```

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    }
60}

```

```

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.TR OFF;
94         }else{
95             UserState=u;
96             UserFiltered=true;
97             i=R.string.TR ON;
98         }
99         return i;
100    }
101
102    public Integer toggleSearch(String s){
103        Integer i;
104        if ((s==null)||(s.equals("")))
105        {IsSearched=false;
106            Query="";
107            i=R.string.TSEOFF;
108        } else {
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()==
163             RecipeSeason.WINTER);
164             if (SeasonState==RecipeSeason.WINTER) b=(r.getSeason()==
165             RecipeSeason.SUMMER);
166             if (b) return false;
167         }
168         if (DifficultyFiltered){
169             if (r.getDifficulty()!=DifficultyState) return false;
170         }
171         if (TypeFiltered){

```

```

170         if (r.getType()!=TypeState) return false;
171     }
172     if (UserFiltered){
173         if (!r.getOwner().IsEqual(UserState)) return false;
174     }
175     if (IsSearched){
176         if (!r.containQuery(Query)) return false;
177     }
178     return true;
179 }
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 import java.util.UUID;
4
5 public class MailCard {
6     private Boolean mIsReceived;
7     private Boolean mIsRequest;
8     private String mMessage;
9     private User mUser; // from or to
10    private Integer mStatus;
11    private Integer SUBMITTED=1;
12    private Integer ACCEPTED=2;
13    private Integer REFUSED=3;
14    private UUID mIdRecipe;
15    private Integer mRequestId;
16    private String mTitle;
17    private String UUIDNULL="00000000-0000-0000-0000-000000000000";
18
19
20    public MailCard(Recipe r){
21        this();
22        if ((r!=null)&&(r.IsMessage())){
23            mUser=r.getUserFrom();
24            mMessage=r.getMessage();
25            mStatus=SUBMITTED;
26            mIdRecipe=r.getId();
27            mTitle=r.getTitle();
28            mRequestId=0;
29        }
30    }
31
32    public MailCard(){
33        mUser=new User();
34        mIsReceived=true;
35        mIsRequest=false;
36        mMessage="";
37        mStatus=0;
38        mIdRecipe=UUID.fromString(UUIDNULL);
39        mTitle="";
40    }
41
42    public Boolean isReceived() {
43        return mIsReceived;
44    }
45    public Boolean isRequest() {
46        return mIsRequest;
47    }
48
49    public void setRequest() {
50        mIsRequest = true;
51        mIsReceived=false;
52    }
53
54    public UUID getRecipeId(){return mIdRecipe;}
55    public void setIdRecipe(UUID idRecipe) {
56        mIdRecipe = idRecipe;
57    }

```

```
58
59     public Boolean isSubmitted() {return mStatus==SUBMITTED;}
60     public void setSubmitted(){mStatus=SUBMITTED;}
61     public String getTitle() {
62         return mTitle;
63     }
64
65     public void setTitle(String title) {
66         mTitle = title;
67     }
68
69     public String getMessage() {
70         return mMessage;
71     }
72
73     public void setMessage(String message) {
74         mMessage = message;
75     }
76
77     public User getUser() {
78         return mUser;
79     }
80
81     public void setUser(User user) {
82         mUser = user;
83     }
84
85     public void setRefused() {mStatus=REFUSED;}
86     public void setAccepted() {mStatus=ACCEPTED;}
87
88     public Integer getRequestID() {
89         return mRequestId;
90     }
91
92     public void setRequestId(Integer requestId) {
93         mRequestId = requestId;
94     }
95
96     public Integer getStatus() {
97         return mStatus;
98     }
99 }
100
```

```
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 Boolean mIsRecipeRequest;
16     private String CB_FAMILY="family";
17     private String CB_NAME="name";
18     private String CB_ID="iduser";
19     private String NOT_FOUND="Not found";
20     private String mMaskSerialized;
21     private String mDevice;
22     private static final String TAG = "DebugSessionInfo";
23     private static String URLPATH="http://82.66.37.73:8085/cb/";
24     public static int CONNECT_TIMEOUT = 10000;
25     public static int READ_TIMEOUT = 10000;
26
27     public static SessionInfo get(Context context) {
28         if (ourInstance==null){
29             ourInstance= new SessionInfo(context);
30         }
31         return ourInstance;
32     }
33
34     private SessionInfo(Context context) {
35         mContext=context.getApplicationContext();
36         mIsConnected=false;
37         mReqNewSession=false;
38         mIsRecipeRequest=false;
39         mMaskSerialized="";
40         mDevice="Device " + android.os.Build.DEVICE+ " model "
41             +android.os.Build.MODEL + " ("+ android.os.Build.
PRODUCT + ")";
42         String sharedPref;
43         sharedPref= PreferenceManager.getDefaultSharedPreferences(
context)
44             .getString(CB_ID, NOT_FOUND);
45         if (sharedPref.equals(NOT_FOUND)){
46             mUser = new User(NOT_FOUND, NOT_FOUND);
47         } else {
48             mUser = new User(PreferenceManager.
getDefaultSharedPreferences(context)
49                 .getString(CB_FAMILY, NOT_FOUND),
PreferenceManager.getDefaultSharedPreferences(context)
50                     .getString(CB_NAME, NOT_FOUND));
51             mUser.setId(UUID.fromString(sharedPref));
52         }
53     }

```

```

54
55
56     public User getUser() {
57         return mUser;
58     }
59
60     public void setStoredUser(User user){
61         PreferenceManager.getDefaultSharedPreferences(mContext)
62             .edit()
63             .putString(CB_FAMILY, user.getFamily())
64             .putString(CB_NAME, user.getName())
65             .putString(CB_ID, user.getId().toString())
66             .apply();
67         mUser=user;
68     }
69     public void clearStoredUser(){
70         SharedPreference settings = mContext.getSharedPreferences("PreferencesName", Context.MODE_PRIVATE);
71         settings.edit().remove("CB_FAMILY").commit();
72         settings.edit().remove("CB_NAME").commit();
73         settings.edit().remove("CB_ID").commit();
74     }
75
76     public Boolean IsEmpty(){
77         if (mUser.getName().equals(NOT_FOUND)){return true;}
78         return false;
79     }
80
81     public Boolean IsReqNewSession() {
82         return mReqNewSession;
83     }
84
85     public void setReqNewSession(Boolean reqNewSession) {
86         mReqNewSession = reqNewSession;
87     }
88
89     public void setConnection(Boolean b){
90         mIsConnected=b;
91     }
92     public Boolean IsConnected(){
93         return mIsConnected;
94     }
95
96     public Context getContext(){return mContext;}
97
98     public String getURLPath(){return URLPATH;}
99     public int getConnectTimeout(){return CONNECT_TIMEOUT;}
100    public int getReadTimeout(){return READ_TIMEOUT;}
101    public String getListMask(){return mMaskSerialized;}
102    public void setListMask(String s){mMaskSerialized=s;}
103    public Boolean IsRecipeRequest(){return mIsRecipeRequest;}
104    public void setIsRecipeRequest(Boolean b){mIsRecipeRequest=b;}
105
106    public String getDevice() {
107        return mDevice;
108    }
109 }

```

```

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.InputStream;
16 import java.io.InputStreamReader;
17 import java.io.OutputStream;
18 import java.io.OutputStreamWriter;
19 import java.net.HttpURLConnection;
20 import java.net.MalformedURLException;
21 import java.net.URL;
22 import java.net.URLEncoder;
23 import java.text.DecimalFormat;
24 import java.text.SimpleDateFormat;
25 import java.util.ArrayList;
26 import java.util.Date;
27 import java.util.HashMap;
28 import java.util.List;
29 import java.util.Map;
30 import java.util.UUID;
31
32 public class NetworkUtils {
33     private SessionInfo mSession;
34     private static final String TAG = "CB_NetworkUtils";
35     private static final String MYSQLDATEFORMAT="yyyy-MM-dd HH:mm:ss";
36
37     public NetworkUtils(Context c){
38         mSession=SessionInfo.get(c);
39     }
40
41     public String sendPostRequestJson(String requestURL,
42                                     HashMap<String, String>
43                                     postDataParams) {
44
45         URL url;
46         try {
47             url = new URL(requestURL);
48             HttpURLConnection conn = (HttpURLConnection) url.
49             openConnection();
50             conn.setReadTimeout(mSession.getReadTimeout());
51             conn.setConnectTimeout(mSession.getConnectTimeout());
52             conn.setRequestMethod("POST");
53             conn.setDoInput(true);
54             conn.setDoOutput(true);
55             OutputStream os = conn.getOutputStream();
56             BufferedWriter writer = new BufferedWriter(
57                 new OutputStreamWriter(os, "UTF-8"));

```

```

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

```

```

108     try {
109         UUID uuid=UUID.fromString(obj.getString("id_user"));
110         User u=new User(obj.getString("family"), obj.getString("name")
111 ) );
112         u.setId(uuid);
113         String s=obj.getString("date_comment");
114         Date date=new SimpleDateFormat(MYSQLDATEFORMAT).parse(s);
115         return new Comment(obj.getString("comment"),u,date);}
116         catch (Exception e){
117             deBugShow("Failure in parsing JSONObject Comments "+e);
118             return null;
119         }
120     public List<Note> parseNotesOfRecipe(String json){
121         Note n;
122         List<Note> ns=new ArrayList<>();
123         if ((json==null)|| (json.equals("")))
124             return null;
125         try {
126             JSONArray jarr1=new JSONArray(json);
127             for (int i=0; i<jarr1.length(); i++){
128                 JSONObject obj = jarr1.getJSONObject(i);
129                 n=parseObjectNote(obj);
130                 if (n!=null) ns.add(n);
131             }
132         } catch (Exception e){
133             deBugShow("Failure in parsing JSON Array Comments "+e);
134             return null;
135         }
136         return ns;
137     }
138     public Note parseObjectNote(JSONObject obj){
139         try {
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             deBugShow("Failure in parsing JSONObject Note : "+e);
148             return null;
149         }
150     }
151     public Recipe parseObjectRecipeStamp(JSONObject obj){
152         try {
153             //----- uid 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             return r;
186         }
187     }
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         deBugShow( "Failure in parsing JSON Array Comments "+e);
203         return null;
204     }
205     return rs;
206 }
207
208 public boolean parseObjectRecipe(Recipe r, JSONObject obj,
209     boolean withphoto, boolean full){
210     try {
211         UUID uuid;
212         String s1, s2;
213         User u;
214         if (full) {
215             uuid = UUID.fromString(obj.getString("id_owner"));

```

```

215             s1 = obj.getString("owner_family");
216             s2 = obj.getString("owner_name");
217             u = new User(s1, s2);
218             u.setId(uuid);
219             r.setOwner(u);
220             s1=obj.getString("message");
221             if ((s1==null)||s1.equals("null")) s1="";
222             r.setMessage(s1);
223             r.setStatus(StatusRecipe.valueOf(obj.getString("status")));
224             s1 = obj.getString("id_from");
225             if ((!s1.equals("null"))&&(s1.length()>5)&&(s1!=null))
226             {
227                 uuid = UUID.fromString(s1);
228                 s1 = obj.getString("from_family");
229                 s2 = obj.getString("from_name");
230                 u = new User(s1, s2);
231                 u.setId(uuid);
232                 r.setUserFrom(u);
233             }
234             //----- dates
235             Date date;
236             s1 = obj.getString("lastupdate_recipe");
237             if (!s1.equals("null")&&(s1.length()>5)&&(s1!=null)) {
238                 date = new SimpleDateFormat(MYSQLDATEFORMAT).parse(s1);
239                 r.setDate(date);
240             } else {return false;}
241             s1 = obj.getString("lastupdate_photo");
242             if (!s1.equals("null")&&(s1.length()>5)&&(s1!=null)) {
243                 date = new SimpleDateFormat(MYSQLDATEFORMAT).parse(s1);
244                 r.setDatePhoto(date);
245             }
246             //----- titre, source x2, nbpers
247             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                     deBugShow("getURL from cookbook download failed
in parse recipe "+e);
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         ) {
290             Bitmap bm=PictureUtils.getBitmapFromString(s1);
291             if (f.exists()){
292                 deBugShow( "file " + f.toString()+" ecrasée
293 dans parsing recipe !");
294                 f.delete();
295             }
296             try {
297                 if(!f.createNewFile()) {
298                     deBugShow( "Error in creating file "+f.
299 toString());
299                 }
300             } catch (IOException e) {
301                 deBugShow( "Error in creating file "+f.
302 toString()+": " +e);
303             }
304             try {
305                 FileOutputStream out = new FileOutputStream(f
306 );
306                 bm.compress(Bitmap.CompressFormat.JPEG, 100,
307                 out);
308                 out.flush();
309                 out.close();
310             } catch (Exception e) {
311                 deBugShow("Storing bitmap error " + e);
312             }
313             return true;
314         }
315         catch (Exception e){

```

```

316         deBugShow( "Failure in parsing JSONObject Recette : "+e);
317         return false;
318     }
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         deBugShow( "Storing bitmap error " + e);
337         return false;
338     }
339 }
340
341 public List<Recipe> parseRecipesOfCommunity(String json, boolean
342 withphoto){
343     Recipe r;
344     List<Recipe> rs=new ArrayList<>();
345     if ((json==null)||!(json.equals("")))
346         return null;
347     try {
348         JSONArray jarr1=new JSONArray(json);
349         for (int i=0; i<jarr1.length(); i++){
350             JSONObject obj = jarr1.getJSONObject(i);
351             r=new Recipe();
352             if (!parseObjectRecipeShort(r,obj, withphoto)) {
353                 deBugShow("Error in parsing");
354                 return null;
355             }
356             if (r!=null) rs.add(r);
357         }
358     } catch (Exception e){
359         deBugShow("Failure in parsing JSON Array Recipes for
360 community "+e);
361         return null;
362     }
363     return rs;
364 }
365
366 public Boolean parseObjectRecipeShort(Recipe r,JSONObject obj,
367 boolean withphoto){
368     try {
369         UUID uuid;
370         String s1, s2;
371         User u;
372         uuid = UUID.fromString(obj.getString("id_recipe"));
373         r.setId(uuid);
374         uuid = UUID.fromString(obj.getString("id_user"));
375     }
376 }

```

```

369         s1 = obj.getString("family");
370         s2 = obj.getString("name");
371         u = new User(s1, s2);
372         u.setId(uuid);
373         r.setOwner(u);
374         //----- dates
375         Date date;
376         s1 = obj.getString("lastupdate_recipe");
377         if ((s1.equals("null"))&&(s1.length()>5)&&(s1!=null)) {
378             date = new SimpleDateFormat(MYSQLDATEFORMAT).parse(s1
379         );
380             r.setDate(date);
381         } else {return false;}
382         //----- titre, source x2, nbpers
383         s1 = obj.getString("title");
384         r.setTitle(s1);
385         //----- enum
386         r.setSeason(RecipeSeason.valueOf(obj.getString("season"
387         )));
388         r.setDifficulty(RecipeDifficulty.valueOf(obj.getString("
389 difficulty")));
390         r.setType(RecipeType.valueOf(obj.getString("type")));
391         // ----- photo
392         if (withphoto) {
393             s1 = obj.getString("photo");
394             if ((s1!=null)&&(!s1.equals(""))))
395                 r.setImage(PictureUtils.getBitmapFromString(s1));
396         }
397         return true;
398     }
399 }
400
401
402 public MailCard parseObjectRequest(JSONObject obj){
403     MailCard mc=new MailCard();
404     mc.setRequest();
405     String s1, s2;
406     User u;
407     Integer n;
408     try {
409         UUID uuid=UUID.fromString(obj.getString("id_recipe"));
410         mc.setIdRecipe(uuid);
411         uuid=UUID.fromString(obj.getString("id_from"));
412         s1 = obj.getString("family");
413         s2 = obj.getString("name");
414         u = new User(s1, s2);
415         u.setId(uuid);
416         mc.setUser(u);
417         s1 = obj.getString("message");
418         mc.setMessage(s1);
419         n=obj.getInt("pknum");
420         mc.setRequestId(n);
421         s1 = obj.getString("title");
422         mc.setTitle(s1);

```

```
423         s1 = obj.getString("status");
424         if (s1.equals("ISSUED")) mc.setSubmitted();
425         if (s1.equals("DENIED")) mc.setRefused();
426         if (s1.equals("ACCEPTED")) mc.setAccepted();
427         return mc;
428     }
429     catch (Exception e){
430         deBugShow( "Failure in parsing JSONObject Request : "+e);
431         return null;
432     }
433 }
434
435 public Boolean test204() {
436     String PHP204 = "return204.php";
437     try {
438         URL url = new URL(mSession.getURLPath() + PHP204);
439         HttpURLConnection conn = (HttpURLConnection) url.
openConnection();
440         conn.setConnectTimeout(mSession.getConnectTimeout());
441         conn.setReadTimeout(mSession.getReadTimeout());
442         conn.setRequestMethod("HEAD");
443         InputStream in = conn.getInputStream();
444         int status = conn.getResponseCode();
445         in.close();
446         conn.disconnect();
447         return (status == HttpURLConnection.HTTP_NO_CONTENT);
448     } catch (Exception e) {
449         deBugShow("Test 204 : " + e);
450         return false;
451     }
452 }
453
454 private void deBugShow(String s){
455     //Log.d(TAG, s);
456 }
457
458 }
459
```

```

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 getScaledBitmap(Bitmap bmpin, int w) {
33         Integer h=(Integer)(bmpin.getHeight()*w/bmpin.getWidth());
34         return bmpin.createScaledBitmap(bmpin, w, h, true);
35     }
36
37     public static Bitmap getBitmap(String path) {
38         BitmapFactory.Options options=new BitmapFactory.Options();
39         options.inJustDecodeBounds=true;
40         BitmapFactory.decodeFile(path, options);
41         int inSampleSize=1;
42         options=new BitmapFactory.Options();
43         options.inSampleSize=inSampleSize;
44         @SuppressWarnings("deprecation")
45         return BitmapFactory.decodeFile(path, options);
46     }
47     public static Bitmap getScaledBitmap(String path, Activity
48                                         activity){
49         Point size=new Point();
50         activity.getWindowManager().getDefaultDisplay().getSize(size);
51         return getScaledBitmap(path, size.x, size.y);
52     }
53     public static Bitmap getScaledBitmap(String path, Activity
54                                         activity, int width){
55         Point size=new Point();
56         activity.getWindowManager().getDefaultDisplay().getSize(size);
57         int height=(Integer) Math.round(width*size.y/size.x);
58     }
59 }

```

```
54     return getScaledBitmap(path, width, height);
55 }
56
57 public static String getStringImage(Bitmap bmp){
58     ByteArrayOutputStream baos = new ByteArrayOutputStream();
59     bmp.compress(Bitmap.CompressFormat.JPEG, 100, baos);
60     byte[] imageBytes = baos.toByteArray();
61     String encodedImage = Base64.encodeToString(imageBytes,
62         Base64.DEFAULT);
62     return encodedImage;
63 }
64
65 public static Bitmap getBitmapFromString(String s){
66     byte[] decodedString = Base64.decode(s, Base64.DEFAULT);
67     Bitmap decodedByte = BitmapFactory.decodeByteArray(
68         decodedString, 0, decodedString.length);
68     return decodedByte;
69 }
70 }
71
```

```
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,
29   GLOBALSYNC, DELETERECIPE}
30
31 class AsyncCallClass extends AsyncTask<Void, Integer, Boolean> {
32   private static final String TAG = "CB_AsynCalls";
33   private static final String PHP204 = "return204.php";
34   private static final String PHPUPDATECREATE =
35     "updateorcreaterecipe.php";
36   private static final String PHPUPUPLOADPHOTO =
37     "uploadphotointorecipe.php";
38   private static final String PHPDELETERECIPE =
39     "deleterecipe.php";
40   private static final String PHPGETCOMMENTSOFRECIPE =
41     "getcommentsofreipe.php";
42   private static final String PHPADDCOMMENTTORECIPE =
43     "addcommentwithdate.php";
44   private static final String PHPADDNOTETORECIPE =
45     "addnotewithdate.php";
46   private static final String PHPGETNOTESOFRECIPE =
47     "getnotesofrecipe.php";
48   private static final String PHPGETSTAMPSTIERS =
49     "getreciestampstiers.php";
50   private static final String PHPGETRECIPEFROMCB =
51     "getrecipefromcb.php";
52   private static final String PHPGETRECIPEFROMCBWITHPHOTO =
53     "getrecipefromcbwithphoto.php";
54   private static final String PHPACCEPTRECIPE =
55     "acceptrecipe.php";
56   private static final String PHPCHECKREQUESTS =
57     "checkrequests.php";
58 ;
59   private static final String MYSQLDATEFORMAT="yyyy-MM-dd HH:mm:ss";
60   private static Context mContext;

```

```

47     private SessionInfo mSession;
48     private NetworkUtils mNetUtils;
49     private CookBook mCookbook;
50
51     public AsyncCallClass(Context context){
52         mContext=context;
53         mCookbook = CookBook.get(mContext);
54         mSession = SessionInfo.get(mContext);
55         mNetUtils = new NetworkUtils(mContext);
56     }
57
58     @Override
59     protected Boolean doInBackground(Void... params) {
60         Boolean isChanged=false;
61         if (!test204()) {
62             return isChanged;
63         }
64         deBugShow("----- Start Sync-----");
65         if (syncTiersRecipe(mSession.getUser())) isChanged=true;
66         List<Recipe> mrecipes=mCookbook.getRecipes();
67         for(Recipe r:mrecipes){
68             if (r.getOwnerIdString().equals(mSession.getUser().getId()
69             .toString())){
70                 if (r.getTS(AsynCallFlag.NEWRECIPE) == 1) {
71                     if (uploadRecipe(r)) {
72                         deBugShow("Recette " + r.getTitle() + " mise
73                         à jour");
74                         r.updateTS(AsynCallFlag.NEWRECIPE, false);
75                         mCookbook.updateRecipe(r);
76                         isChanged=true;
77                     } else {
78                         deBugShow( "Recette " + r.getTitle() + " non
79                         mise à jour");
80                     }
81                 }
82                 if (r.getTS(AsynCallFlag.NEWPHOTO) == 1) {
83                     if (uploadPhoto(r)) {
84                         deBugShow( "Recette Photo " + r.getTitle() +
85                         " mise à jour");
86                         r.updateTS(AsynCallFlag.NEWPHOTO, false);
87                         mCookbook.updateRecipe(r);
88                         isChanged=true;
89                     }
90                 }
91                 if (syncCommentsRecipe(r)) {
92                     deBugShow( "Comments de " + r.getTitle()+" updaté");
93                     r.updateTS(AsynCallFlag.NEWCOMMENT, false);
94                     mCookbook.updateRecipe(r);
95                 }
96                 if (syncNotesRecipe(r)) {
97                     deBugShow( "Notes de " + r.getTitle()+" updaté");
98                     isChanged=true;
99             }
100         }
101     }
102 }
```

```

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    }
113    mSession.setIsRecipeRequest(checkRecipeRequest());
114    return isChanged;
115 }
116
117 @Override
118 protected void onPreExecute() {
119     super.onPreExecute();
120 }
121
122 @Override
123 protected void onPostExecute(Boolean isChanged) {
124     super.onPostExecute(isChanged);
125     if (isChanged)
126         Toast.makeText(mContext, mContext.getString(R.string.P1_sync
), Toast.LENGTH_SHORT).show();
127 }
128
129 private void deBugShow(String s){
130     //Log.d(TAG, s);
131 }
132
133 private Boolean test204() {
134     try {
135         URL url = new URL(mSession.getURLPath() + PHP204);
136         HttpURLConnection conn = (HttpURLConnection) url.
openConnection();
137         conn.setConnectTimeout(mSession.getConnectTimeout());
138         conn.setReadTimeout(mSession.getReadTimeout());
139         conn.setRequestMethod("HEAD");
140         InputStream in = conn.getInputStream();
141         int status = conn.getResponseCode();
142         in.close();
143         conn.disconnect();
144         return (status == HttpURLConnection.HTTP_NO_CONTENT);
145     } catch (Exception e) {
146         deBugShow( "Test 204 : " + e);
147         return false;
148     }
149 }
150
151 private Boolean uploadRecipe(Recipe r) {
152     HashMap<String, String> data = new HashMap<>();

```

```

153         String s1;
154         DateFormat dateFormat = new SimpleDateFormat(MYSQLDATEFORMAT
155     );
155         data.put("idrecipe", r.getId().toString());
156         data.put("iduser", r.getOwner().getId().toString());
157         data.put("title", r.getTitle());
158         data.put("source", r.getSource());
159         data.put("sourceurl", r.getSource_url_name());
160         DecimalFormat formatter = new DecimalFormat("00");
161         data.put("nbpers", formatter.format(r.getNbPers()));
162         s1 = dateFormat.format(r.getDate());
163         data.put("date", s1);
164         for (int i = 0; i < r.getNbStepMax(); i++) {
165             s1 = "etape" + formatter.format(i + 1);
166             data.put(s1, r.getStep(i + 1));
167         }
168         for (int i = 0; i < r.getNbIngMax(); i++) {
169             s1 = "ing" + formatter.format(i + 1);
170             data.put(s1, r.getIngredient(i + 1));
171         }
172         data.put("season", r.getSeason().toString());
173         data.put("difficulty", r.getDifficulty().toString());
174         data.put("type", r.getType().toString());
175         String result = mNetUtils.sendPostRequestJson(mSession.
getURLPath() + PHPUPDATECREATE, data);
176         if (result==null) return false;
177         if (!result.trim().equals("1")) {
178             deBugShow( "Retour de "+PHPUPDATECREATE+" =>" +result+"<" );
179         return false;}
180         return true;
181     }
182
183     private Boolean uploadPhoto(Recipe r) {
184         String s1;
185         File file = mCookbook.getPhotoFile(r);
186         Bitmap bitmap = PictureUtils.getBitmap(file.getPath());
187         if (bitmap == null) {
188             deBugShow( "Pas de bitmap pour " + r.getTitle());
189             return false;
190         }
191         String uploadImage = PictureUtils.getStringImage(bitmap);
192         HashMap<String, String> data = new HashMap<>();
193         data.put("idrecipe", r.getId().toString());
194         if (uploadImage==null) return false;
195         data.put("image", uploadImage);
196         DateFormat dateFormat = new SimpleDateFormat(MYSQLDATEFORMAT
197     );
197         s1 = dateFormat.format(r.getDatePhoto());
198         data.put("date", s1);
199         String result = mNetUtils.sendPostRequestJson(mSession.
getURLPath() + PHPUPUPLOADPHOTO, data);
200         if (result==null) return false;
201         if (!result.trim().equals("1")) {
202             deBugShow( "Retour de "+ PHPUPUPLOADPHOTO+" = "+result);
203             return false;}
204         return true;

```

```

205    }
206    private Boolean deleteRecipeFromCB(Recipe r) {
207        HashMap<String, String> data = new HashMap<>();
208        data.put("idrecipe", r.getId().toString());
209        data.put("iduser", mSession.getUser().getId().toString());
210        String result = mNetUtils.sendPostRequestJson(mSession.
211            getURLPath() + PHPDELETERECIPE, data);
212        if (result==null) return false;
213        if (!result.trim().equals("1")) {
214            deBugShow( "Retour de " + PHPDELETERECIPE+" = "+result);
215            return false;}
216        return true;
217    }
218    private Boolean syncCommentsRecipe(Recipe r) {
219        boolean ret=false;
220        HashMap<String, String> data = new HashMap<>();
221        data.put("idrecipe", r.getId().toString());
222        String result = mNetUtils.sendPostRequestJson(mSession.
223            getURLPath() + PHPGETCOMMENTSOFRECIPE, data);
224        List<Comment> downloadedComments=mNetUtils.
225            parseCommentsOfRecipe(result);
226        if (downloadedComments==null) downloadedComments=new
227            ArrayList<>();
228        List<Comment> recipeComments=r.getComments();
229        if (recipeComments==null) recipeComments=new ArrayList<>();
230        //----- boucle local
231        List<Comment> cloc= new ArrayList<>();
232        Comment c,ci;
233        if (!recipeComments.isEmpty()){
234            for (int i = 0; i < recipeComments.size(); i++){
235                ci=recipeComments.get(i);
236                c=new Comment(ci.getText(),ci.getUser(),ci.getDate());
237                if (downloadedComments.isEmpty()) {cloc.add(c);} else {
238                    if (downloadedComments.indexOf(c)==-1) cloc.add(c);}
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 {
247                        if (recipeComments.indexOf(c)==-1) cser.add(c);}
248                }
249                if (!cser.isEmpty()){
250                    for (int i = 0; i < cser.size(); i++){
251                        r.addComment(cser.get(i));
252                    }
253                    if (cser.size()>0) {
254                        mCookbook.updateRecipe(r);
255                        ret=true;
256                    }
257                }
258            }
259        }
260    }

```

```

257         if (!c1oc.isEmpty()) {
258             if (!uploadComments(r,c1oc)) {ret=false;}
259             else {ret=true;}
260         }
261     return ret;
262 }
263
264     private Boolean uploadComments(Recipe r, List<Comment> cs){
265         if (cs==null) return false;
266         if (cs.size()==0) return true;
267         HashMap<String, String> data = new HashMap<>();
268         DateFormat dateFormat = new SimpleDateFormat(MYSQLDATEFORMAT
269 );
270         String s1;
271         boolean b=true;
272         for (Comment c:cs) {
273             data.clear();
274             data.put("idrecipe", r.getId().toString());
275             data.put("idfrom", c.getUser().getId().toString());
276             data.put("comment", c.getTxt());
277             s1 = dateFormat.format(c.getDate());
278             data.put("date",s1 );
279             String result = mNetUtils.sendPostRequestJson(mSession.
getURLPath() + PHPADDCOMMENTTORECIPE, data);
280             if (result==null) b=false;
281             if (!result.equals("1")) {
282                 deBugShow( "Retour de "+ PHPADDCOMMENTTORECIPE+" = "+
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.
getURLPath() + PHPGETNOTESOFREREIPE, data);
293         List<Note> downloadedNotes=mNetUtils.parseNotesOfRecipe(
result);
294         if (downloadedNotes==null) downloadedNotes=new ArrayList<>();
295         List<Note> recipeNotes=r.getNotes();
296         if (recipeNotes==null) recipeNotes=new ArrayList<>();
297         //----- boucle local
298         List<Note> c1oc= new ArrayList<>();
299         Note c,ci;
300         if (!recipeNotes.isEmpty()){
301             for (int i = 0; i < recipeNotes.size(); i++){
302                 ci=recipeNotes.get(i);
303                 c=new Note(ci.getNote(),ci.getUser(),ci.getDate());
304                 if (downloadedNotes.isEmpty()) {
305                     c1oc.add(c);
306                 } else {
307                     if (downloadedNotes.indexOf(c)==-1) c1oc.add(c);
308                 }
309             }
310         }
311         //----- boucle serveur

```

```

309         List<Note> cser= new ArrayList<>();
310         if (!downloadedNotes.isEmpty()){
311             for (int i = 0; i < downloadedNotes.size(); i++){
312                 ci=downloadedNotes.get(i);
313                 c=new Note(ci.getNote(),ci.getUser(),ci.getDate());
314                 if (recipeNotes.isEmpty()){
315                     cser.add(c);}
316                 else{
317                     if (recipeNotes.indexOf(c)==-1) cser.add(c);}
318             }
319         }
320         if (!cser.isEmpty()){
321             for (int i = 0; i < cser.size(); i++){
322                 r.addNote(cser.get(i));
323             }
324             if (cser.size()>0) {
325                 mCookbook.updateRecipe(r);
326                 ret=true;
327             }
328         }
329         if (!cloc.isEmpty()) {
330             if (!uploadNotes(r,cloc)) {ret=false;}
331             else {ret=true;}
332         }
333         return ret;
334     }
335     private Boolean uploadNotes(Recipe r, List<Note> cs){
336         if (cs==null) return false;
337         if (cs.size()==0) return true;
338         HashMap<String, String> data = new HashMap<>();
339         DateFormat dateFormat = new SimpleDateFormat(MYSQLDATEFORMAT
340 );
341         DecimalFormat formatter = new DecimalFormat("00");
342         String s1;
343         boolean b=true;
344         for (Note c:cs) {
345             data.clear();
346             data.put("idrecipe", r.getId().toString());
347             data.put("idfrom", c.getUser().getId().toString());
348             data.put("note", formatter.format(c.getNote()));
349             s1 = dateFormat.format(c.getDate());
350             data.put("date",s1 );
351             String result = mNetUtils.sendPostRequestJson(mSession.
352                 getURLPath() + PHPADDNOTETORECIPE, data);
353             if (result==null) b=false;
354             if (!result.equals("1")) {
355                 deBugShow( "Retour de "+ PHPADDNOTETORECIPE+" = "+
356                 result);
357                 b=false;
358             }
359         }
360         return b;
361     }
362     private Boolean syncTiersRecipe(User user) {
363         boolean ret=false;
364         HashMap<String, String> data = new HashMap<>();
365         data.put("iduser", user.getId().toString());
366         String result = mNetUtils.sendPostRequestJson(mSession.

```

```

362 getURLPath() + PHPGETSTAMPSTIERS, data);
363     if (result==null) return ret;
364     List<Recipe> tiersRecipe=mNetUtils.parseStampsTiers(result);
365     if (tiersRecipe==null) return ret;
366     boolean withphoto=false, update=false;
367     Recipe rloc, rnew;
368     for(Recipe r:tiersRecipe) {
369         rloc=mCookbook.getRecipe(r.getId());
370         if (rloc==null) { // case recipe tiers not found locally
=> download
371             rnew=downloadRecipe(r);
372             if (rnew==null) {
373                 deBugShow( "Failure in down loading recipe Id "+
r.getId());
374                 ret=false;
375             } else {
376                 mCookbook.addRecipe(rnew);
377                 deBugShow( "Recette "+ rnew.getTitle()+"
downloadée");
378                 ret=true;
379             }
380         } else {
381             deBugShow("Exists locally. Remote status : status "+
r.getStatus().toString()+
382                     " ("+r.getDate().toString()+"") photo :" +r.
getDatePhoto().toString());
383             if (rloc.isVisible()){// if local recipe submitted
then skip
384                 withphoto=IsAfterAndNotNull(r.getDatePhoto(),
rloc.getDatePhoto());
385                 update=IsAfterAndNotNull(r.getDate(), rloc.
getDate());
386                 deBugShow("Test : Server more recent ? "+update+
" and photo ?"+withphoto);
387                 if (r.IsMessage()){// case recipe tiers active
and status needs update
388                     if (recipeAccepted(r)){
389                         deBugShow("Recette "+ rloc.getTitle()+"
made visible on server");
390                     } else deBugShow("Error in accepting server
recipe");
391                 }
392                 if(update || withphoto){
393                     if (updateRecipe(rloc, withphoto)){
394                         mCookbook.updateRecipe(rloc);
395                         deBugShow( "Recette "+ rloc.getTitle()+"
updated (with photo :" +withphoto+"")");
396                         ret=true;
397                     }
398                 }
399                 else continue;
400             }
401         }
402     }
403     return ret;
404 }
405 private boolean IsAfterAndNotNull(Date ds, Date dl){
```

```
406     Calendar c=Calendar.getInstance();
407     c.set(2000,0,1,0,0, 0);
408     Date d0=c.getTime();
409     boolean morerecent=(ds.compareTo(dl)==1);
410     boolean isnotnull=(ds.compareTo(d0)==1);
411     return morerecent && isnotnull;
412 }
413
414     private Recipe downloadRecipe(Recipe ref){
415         if (ref==null) return null;
416         HashMap<String, String> data = new HashMap<>();
417         data.put("idrecipe", ref.getId().toString().trim());
418         data.put("iduser", mSession.getUser().getId().toString().trim());
419         String result = mNetUtils.sendPostRequestJson(mSession.
getURLPath()+PHPGETRECIPEFROMMCBWITHPHOTO,data);
420         Recipe r=new Recipe();
421         try {
422             JSONArray jarr1 = new JSONArray(result);
423             if (jarr1.length()==0){
424                 deBugShow( " No json objects from download <" +ref.
getId() + ">" );
425                 return null;
426             } else {
427                 if (jarr1.length()>1) deBugShow( " Recette non unique
dans cookbook : <" +ref.getId() + ">" );
428                 JSONObject obj = jarr1.getJSONObject(0);
429                 r = new Recipe(UUID.fromString(obj.getString("id_recipe")));
430                 if (!mNetUtils.parseObjectRecipe(r,obj, true, true))
431                     return null;
432             }
433             catch (Exception e) {
434                 deBugShow( " Error parsing CB in downloadRecipe" + e);
435             }
436             return r;
437         }
438         private Boolean updateRecipe(Recipe ref, boolean withphoto){
439             if (ref==null) return null;
440             HashMap<String, String> data = new HashMap<>();
441             data.put("idrecipe", ref.getId().toString().trim());
442             data.put("withphoto", (withphoto)? "1": "0");
443             String result = mNetUtils.sendPostRequestJson(mSession.
getURLPath()+ PHPGETRECIPEFROMMCB,data);
444             Recipe r=new Recipe();
445             try {
446                 JSONArray jarr1 = new JSONArray(result);
447                 if (jarr1.length()!=1){
448                     deBugShow( " Number of json objects from
downloadRecipes = " + jarr1.length() + " !" );
449                     return null;
450                 } else {
451                     JSONObject obj = jarr1.getJSONObject(0);
452                     if (!mNetUtils.parseObjectRecipe(ref,obj, withphoto,
false)) {
453                         deBugShow( " Null recipe from JSON object" +
result);
```

```
453             return false;
454         }
455     }
456     } catch (Exception e) {
457         deBugShow( " Error parsing CB in downloadRecipe" + e);
458         return false;
459     }
460     return true;
461 }
462
463 private Boolean recipeAccepted(Recipe r){
464     if (r==null) return null;
465     HashMap<String, String> data = new HashMap<>();
466     data.put("idrecipe", r.getId().toString().trim());
467     data.put("iduser", mSession.getUser().getId().toString());
468     String result = mNetUtils.sendPostRequestJson(mSession.
469     getURLPath()+ PHPACCEPTRECIPE,data);
470     if (!result.equals("1")) {
471         deBugShow( "Retour de "+ PHPACCEPTRECIPE+ " = "+result);
472         return false;
473     }
474
475     private Boolean checkRecipeRequest(){
476         String iduser=mSession.getUser().getId().toString().trim();
477         if ((iduser==null)|| (iduser.equals(""))) return false;
478         HashMap<String, String> data = new HashMap<>();
479         data.put("iduser", iduser);
480         String result = mNetUtils.sendPostRequestJson(mSession.
481         getURLPath()+ PHPCHECKREQUESTS,data);
482         return result.equals("1");
483     }
484 }
```

```

1 package com.fdx.cookbook;
2
3 import android.content.Context;
4 import android.database.sqlite.SQLiteDatabase;
5 import android.util.Log;
6
7 import org.json.JSONArray;
8 import org.json.JSONObject;
9
10 import java.util.ArrayList;
11 import java.util.List;
12 import java.util.UUID;
13
14 public class CookBooksShort {
15     private static CookBooksShort ourInstance ;
16     private Context mContext;
17     private List<Recipe> mCookBook;
18     private Integer mSelectType;
19     private Integer mDLStatus;
20     private static final Integer COMPLETED=2;
21     private static final Integer STARTED=1;
22     private static final Integer INACTIVE=0;
23     private static final Integer RECENT=1;
24     private static final Integer POPULAR=2;
25     private static final Integer BESTNOTE=3;
26     private static final String TAG = "CB_Community";
27
28     public static CookBooksShort get(Context context) {
29         if (ourInstance==null){
30             ourInstance= new CookBooksShort(context);
31         }
32         return ourInstance;
33     }
34     private CookBooksShort(Context context) {
35         mContext=context.getApplicationContext();
36         mCookBook=new ArrayList<>();
37         mDLStatus=INACTIVE;
38         mSelectType=RECENT;
39     }
40
41     public void addRecipe(Recipe r){
42         if (r!=null){
43             mCookBook.add(r);
44         }
45     }
46
47     public List<Recipe> getRecipes(){
48         return mCookBook;
49     }
50
51     public void clear(){
52         mCookBook.clear();
53     }
54     public void clearCompletely (){
55         mDLStatus=INACTIVE;
56         mSelectType=RECENT;
57         mCookBook.clear();

```

```
58     }
59
60     public void fill(List<Recipe> recipes){
61         if (recipes==null) return;
62         for(Recipe r:recipes){
63             if (r!=null) mCookBook.add(r);
64         }
65     }
66
67     public void updatePhoto(Recipe rtoupdate){
68         for(Recipe r:mCookBook){
69             if(r.isTheSame(rtoupdate)) {
70                 r.setImage(rtoupdate.getImage());
71                 return;
72             }
73         }
74     }
75
76     public Integer getSize() {
77         if (mCookBook == null) return 0;
78         if (mCookBook.isEmpty()) return 0;
79         return mCookBook.size();
80     }
81
82     public Integer getSelectType() {
83         return mSelectType;
84     }
85
86     public void setSelectType(Integer selectType) {
87         mSelectType = selectType;
88     }
89
90     public Integer getDLStatus() {
91         return mDLStatus;
92     }
93
94     public void getDLStarted() {
95         mDLStatus = STARTED;
96     }
97     public void setDLCompleted() {
98         mDLStatus = COMPLETED;
99     }
100    public Boolean isDownloading(){return mDLStatus==STARTED;}
101    public Boolean isNew(){return mDLStatus==INACTIVE;}
102 }
103 }
```

```
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.
recipe_id";
11
12     public static Intent newIntent(Context packageContexte, UUID
recipeId) {
13         Intent intent=new Intent(packageContexte, RecipeActivity.class
);
14         intent.putExtra(EXTRA_RECIPE_ID, recipeId);
15         return intent;
16     }
17
18     @Override
19     protected Fragment createFragment(){
20         UUID recipeId=(UUID) getIntent().getSerializableExtra(
EXTRA_RECIPE_ID);
21         return RecipeEditFragment.newInstance(recipeId);
22     }
23
24 }
25
```

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

```

58     private SessionInfo mSession;
59     private NetworkUtils mNetUtils;
60     private User mUser;
61     private TestConnection tc;
62     private int mState;
63     private AlertDialog.Builder mBuilder;
64     private static final String TAG = "CB_Splash";
65     private final static int NEW_FAMILY=1;
66     private final static int NEW_MEMBER=2;
67     private final static int NEW_SESSION=3;
68     private final static int NEW_PWD=3;
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     private static final String REGEX_PWD="[_!?\w\p{javaLowerCase}\p{javaUpperCase}()]*";
73     private static final String REGEX[]={REGEX_FAMILY, REGEX_MEMBER,
    REGEX_PWD};
74     private static final String PHPREQFAMILYCOMP=
    "getfamilycomposition.php";
75     private static final String PHPREQNEWMEMBER="createnewmember.php"
    ;
76     private static final String PHPREQNEWFAMILY="createnewfamily.php"
    ;
77     private static final String PHPREQUPLOADPHOTO=
    "uploadphotointorecipe.php";
78     private static final String PHPREQGETCB="getcookbook.php";
79     private static final String PHPREQGETNOTES="getnotes.php";
80     private static final String PHPREQGETCOMMENTS="getcomments.php";
81     private static final String MYSQLDATEFORMAT="yyyy-MM-dd HH:mm:ss"
    ;
82
83     @Override
84     protected void onCreate(Bundle savedInstanceState) {
85         super.onCreate(savedInstanceState);
86
87         mSession= SessionInfo.get(getApplicationContext());
88         if ((!mSession.IsEmpty())&&(!mSession.IsReqNewSession())){
89             Intent intent=new Intent(getApplicationContext(),
    RecipeListActivity.class);
90             startActivity(intent);
91             finish();
92         }
93         mBuilder=new AlertDialog.Builder(this);
94         mNetUtils=new NetworkUtils(getApplicationContext());
95         memberFamily=new ArrayList<>();
96         mRecipes=new ArrayList<>();
97         tc = new TestConnection();
98         tc.setTestConnexion(getApplicationContext());
99         tc.testGo();
100
101        getWindow().setFlags(
102                WindowManager.LayoutParams.FLAG_FULLSCREEN,
103                WindowManager.LayoutParams.FLAG_FULLSCREEN);

```

```

104        setContentView(R.layout.activity_splash);
105        mMoto=(TextView) findViewById(R.id.splash_moto);
106        mMoto.setText(R.string.P0_moto);
107        mProgressBar=(ProgressBar) findViewById(R.id.splash_progBar);
108        mProgressBar.setProgress(0);
109        mEnterMessage=(TextView) findViewById(R.id.
    splash_edit_message);
110        mEnterMessage.setText("");
111        mEnterFamilyLbl=(TextView) findViewById(R.id.
    splash_edit_family_lbl);
112        mEnterFamilyLbl.setText(R.string.P0LF);
113        mEnterFamily=(EditText) findViewById(R.id.splash_edit_family
    );
114        mEnterMemberLbl=(TextView) findViewById(R.id.
    splash_edit_member_lbl);
115        mEnterMemberLbl.setText(R.string.P0LM);
116        mEnterMember=(EditText) findViewById(R.id.splash_edit_member
    );
117        mEnterPwdLbl=(TextView) findViewById(R.id.splash_edit_pwd_lbl
    );
118        mEnterPwd=(EditText) findViewById(R.id.splash_edit_pwd);
119        mEnterPwdLbl.setText(R.string.P0LP);
120        mNewSession=(Button) findViewById(R.id.splash_button_session
    );
121        mNewMember=(Button) findViewById(R.id.splash_button_member);
122        mNewFamily=(Button) findViewById(R.id.splash_button_family);
123        if (mSession.IsReqNewSession()){
124            mFamilyEntered=mSession.getUser().getFamily();
125            mEnterFamily.setText(mFamilyEntered);
126            mMemberEntered=mSession.getUser().getName();
127            mEnterMember.setText(mMemberEntered);
128            mPwdEntered="";
129            mEnterPwd.setText(mPwdEntered);
130        } else {
131            mFamilyEntered="";
132            mEnterFamily.setText(mFamilyEntered);
133            mEnterFamily.setHint(R.string.P0HF);
134            mMemberEntered="";
135            mEnterMember.setText(mMemberEntered);
136            mEnterMember.setHint(R.string.P0HM);
137            mPwdEntered="";
138            mEnterPwd.setText(mPwdEntered);
139            mEnterPwd.setHint(R.string.P0HP);
140        }
141        mEnterMessage.setText("");
142        mNewSession.setText(R.string.P0BP);
143        mNewMember.setText(R.string.P0BM);
144        mNewFamily.setText(R.string.P0BF);
145        //updateTop();
146        mNetAnim=(ImageView) findViewById(R.id.net_anim);
147        mNetAnim.setBackgroundResource(R.drawable.network_animation);
148        mNetAnim.setVisibility(View.INVISIBLE);
149        frameNetAnim = (AnimationDrawable) mNetAnim.getBackground();
150        updateDisplayOnAsync(false);
151
152        mEnterFamily.addTextChangedListener(new TextWatcher() {
153            @Override

```

```

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

```

```

202         public void onClick(View v) {
203             if(testConnectStatus()){
204                 mState=NEW_SESSION;
205                 updateDisplayOnAsync(true);
206                 goAsyncTasks();
207             } else {
208                 tc.testGo();}
209         }
210     });
211     mNewMember.setOnClickListener(new View.OnClickListener() {
212         @Override
213         public void onClick(View v) {
214             if(testConnectStatus()){
215                 mState=NEW_MEMBER;
216                 confirmNewUser();
217             } else {
218                 tc.testGo();}
219         }
220     });
221     mNewFamily.setOnClickListener(new View.OnClickListener() {
222         @Override
223         public void onClick(View v) {
224             if(testConnectStatus()){
225                 mState=NEW_FAMILY;
226                 confirmNewUser();
227             } else {
228                 tc.testGo(); }
229         }
230     });
231 }
232
233 private void confirmNewUser(){
234     Context context=getApplicationContext();
235     String name=mMemberEntered+"@"+mFamilyEntered;
236     LinearLayout layout = new LinearLayout(context);
237     layout.setOrientation(LinearLayout.VERTICAL);
238     final TextView message = new TextView(context);
239     message.setText(" "+getString(mState==NEW_FAMILY ? R.string
240 .POCOF:R.string.POCOM,name));
241     layout.addView(message);
242     mBuilder.setTitle(R.string.POCOT);
243     mBuilder.setView(layout);
244     mBuilder.setPositiveButton("OK", new DialogInterface.
245     OnClickListener() {
246         @Override
247         public void onClick(DialogInterface dialog, int which) {
248             updateDisplayOnAsync(true);
249             goAsyncTasks();
250         }
251     });
252     mBuilder.setNegativeButton("Cancel", new DialogInterface.
253     OnClickListener() {
254         @Override
255         public void onClick(DialogInterface dialog, int which) {
256             dialog.cancel();
257         }
258     });

```

```

256         mBuilder.show();
257     }
258
259     public void ShowHidePass(View view){
260         if(view.getId()==R.id.show_pass_btn){
261             if(mEnterPwd.getTransformationMethod().equals(
262                 PasswordTransformationMethod.getInstance())){
263                 ((ImageView)(view)).setImageResource(R.drawable.
264                 ic_pwd_no_vis);
265                 mEnterPwd.setTransformationMethod(
266                     HideReturnsTransformationMethod.getInstance());
267                 }
268             }
269         }
270     }
271 }
272
273     private void updateDisplayOnAsync(Boolean b){
274         int indNet,indClick;
275         if (b){
276             indNet=View.VISIBLE;
277             indClick=View.INVISIBLE;
278             frameNetAnim.start();
279             mProgressBar.setProgress(1);
280         }
281         else {
282             indNet=View.INVISIBLE;
283             indClick=View.VISIBLE;
284             frameNetAnim.stop();
285             mProgressBar.setProgress(0);
286         }
287         mNetAnim.setVisibility(indNet);
288         mProgressBar.setVisibility(indNet);
289         mNewFamily.setVisibility(indClick);
290         mNewMember.setVisibility(indClick);
291         mNewSession.setVisibility(indClick);
292     }
293
294     private Boolean IsLenOK(String s, int min, int max){
295         int l=s.length();
296         return ((l>min)&&(l<max));
297     }
298
299     private Integer getColorOnCondition(String z, Integer state){
300         state=state-1;
301         int retDraw =0;
302         int TRUE=R.color.bg_enter_val;
303         int FALSE=R.color.light_red;
304         retDraw=((Pattern.matches(REGEX[state],z)&&(IsLenOK(z,MINMAX[
305             state][0],MINMAX[state][1]))?
306                         TRUE : FALSE);
307         Integer err_mess[]={R.string.POERUF,R.string.PORUM,R.string.

```

```
306 P0RUP} ;  
307     if (retDraw==FALSE){  
308         mEnterMessage.setText(getResources().getString(err_mess[state  
],MINMAX[state][0],MINMAX[state][1]));}  
309     else {mEnterMessage.setText("");}  
310     return retDraw;  
311 }  
312  
313     private Boolean testConnectStatus(){  
314         mEnterFamily.setBackgroundColor(ContextCompat.getColor(  
getApplicationContext(), R.color.bg_enter_val));  
315         mEnterMember.setBackgroundColor(ContextCompat.getColor(  
getApplicationContext(), R.color.bg_enter_val));  
316         mEnterPwd.setBackgroundColor(ContextCompat.getColor(  
getApplicationContext(), R.color.bg_enter_val));  
317         Boolean ret=true;  
318         //String message="";  
319         if(!mSession.isConnected()){  
320             ret=false;  
321             Toast.makeText(getApplicationContext(), getString(R.  
string.P0ER_nocon), Toast.LENGTH_LONG).show();  
322         }  
323         return ret;  
324 }  
325  
326     private void buttonEnabled(Boolean b){  
327         mNewSession.setEnabled(b);  
328         mNewMember.setEnabled(b);  
329         mNewFamily.setEnabled(b);  
330     }  
331  
332 /*****  
*****  
333 * ASYNC  
*  
334 *****  
*****  
335  
336     private void goAsyncTasks() {  
337  
338         class GoAsyncTasks extends AsyncTask<Void, Void, Boolean> {  
339  
340             @Override  
341             protected void onPreExecute() {  
342                 super.onPreExecute();  
343             }  
344  
345             @Override  
346             protected void onPostExecute(Boolean b) {  
347                 super.onPostExecute(b);  
348                 updateDisplayOnAsync(false);  
349                 if (b) {  
350                     CookBooksShort cbshort=CookBooksShort.get(  
getApplicationContext());  
351                     cbshort.clearCompletely();  
352                     mSession.setStoredUser(mUser);  
353                 }  
354             }  
355         }  
356     }  
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```

```

353                     mSession.setListMask("");
354                     Intent intent=new Intent(getApplicationContext()
355                         (), RecipeListActivity.class);
356                         startActivity(intent);
357                         finish();
358                     }
359                 }
360
361             @Override
362             protected Boolean doInBackground(Void... voids) {
363                 CookBook cb=CookBook.get(getApplicationContext());
364                 String s=getFamilyComp();
365                 mProgressBar.setProgress(2);
366                 if (s==null){
367                     mEnterMessage.setText(R.string.P0ER_com);
368                     return false; } else {
369                     memberFamily=parseJsonFamily(s); }
370                     mProgressBar.setProgress(5);
371                     Integer cas=goFamilyGet();
372                     if (cas==0) { return false; }
373                     deBugShow("Cas :"+cas);
374                     if ((cas==NEW_FAMILY)|| (cas==NEW_MEMBER)){
375                         if (createMember(cas)){
376                             mProgressBar.setProgress(10);
377                             mEnterMessage.setText(getString(R.string.
378 P0OKM));
379                         } else {
380                             mEnterMessage.setText(getString(R.string.
381 P0ERM_new));
382                         }
383                     }
384                     if (s==null){
385                         deBugShow( "download cookbook failed");
386                         return false;
387                     }
388                     mProgressBar.setProgress(50);
389                     mRecipes=parseJsonCB(s);
390                     if (!downloadNotesAndParse()){
391                         deBugShow("Failure in reading and parsing Notes"
392 );
393                         return false;
394                     }
395                     mProgressBar.setProgress(70);
396                     if (!downloadCommentsAndParse()){
397                         deBugShow( "Failure in reading and parsing
398 Comments");
399                         return false;
400                     }
401                     mProgressBar.setProgress(70);
402                     cb.fillCookBook(mRecipes);
403                     mProgressBar.setProgress(90);
404                     return true;
405                 }
406             }

```

```

405         GoAsyncTasks getAsync = new GoAsyncTasks();
406         getAsync.execute();
407     }
408
409     private String getFamilyComp(){
410         HashMap<String, String> data = new HashMap<>();
411         data.put("family", mFamilyEntered.trim());
412         String result = mNetUtils.sendPostRequestJson(mSession.
413             getURLPath()+PHPREQFAMILYCOMP,data);
414         return result;
415     }
416
417     private Boolean createMember(int flag){
418         String link=mSession.getURLPath();
419         if (flag==NEW_MEMBER) {
420             link=link+PHPREQNEWMEMBER;
421         } else {
422             if (flag==NEW_FAMILY) {
423                 link=link+PHPREQNEWFAMILY;
424             } else {
425                 deBugShow( "Function createmember flag bad value");
426                 return false;
427             }
428             deBugShow("URL to create member :"+link);
429             HashMap<String, String> data = new HashMap<>();
430             if ((mFamilyEntered==null)|| (mMemberEntered==null)||
431                 (mPwdEntered==null)) {
432                 deBugShow( "Anomalie, un element nul");
433                 return false;
434             }
435             if ((mFamilyEntered.trim().equals(""))|| (mMemberEntered.trim
436             ().equals(""))||
437                 (mPwdEntered.trim().equals(""))){
438                 deBugShow( "Anomalie, un element vide");
439                 return false;
440             }
441             data.put("family", mFamilyEntered.trim());
442             data.put("pwd", mPwdEntered.trim());
443             data.put("name", mMemberEntered.trim());
444             mUser=new User(mFamilyEntered.trim(),mMemberEntered.trim());
445             data.put("iduser", mUser.getId().toString().trim());
446             data.put("device", mSession.getDevice());
447             String result = mNetUtils.sendPostRequestJson(link,data);
448             if (result.trim().equals("1")) {
449                 deBugShow("Function createmember succeed");
450                 return true;
451             } else {
452                 deBugShow("Function createmember failed");
453                 return false;
454             }
455
456     private String downloadCB(){
457         HashMap<String, String> data = new HashMap<>();
458         data.put("iduser", mUser.getId().toString().trim());
459         data.put("pwd", mPwdEntered.trim());

```

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

```
460     String result = mNetUtils.sendPostRequestJson(mSession.  
getURLPath()+PHPREQGETCB,data);  
461     return result;  
462 }  
463  
464     private Boolean downloadNotesAndParse(){  
465         HashMap<String, String> data = new HashMap<>();  
466         data.put("iduser", mUser.getId().toString().trim());  
467         String json = mNetUtils.sendPostRequestJson(mSession.  
getURLPath()+PHPREQGETNOTES,data);  
468         UUID uuid;  
469         Note n;  
470         try {  
471             JSONArray jarr1=new JSONArray(json);  
472             for (int i=0; i<jarr1.length(); i++){  
473                 JSONObject obj = jarr1.getJSONObject(i);  
474                 uuid=UUID.fromString(obj.getString("id_recipe"));  
475                 n=mNetUtils.parseObjectNote(obj);  
476                 for(Recipe r:mRecipes){  
477                     if (r.getId().equals(uuid)){  
478                         r.addNote(n);  
479                         break;  
480                     }  
481                 }  
482             }  
483         } catch (Exception e){  
484             deBugShow("Failure in parsing JSON Notes "+e);  
485             return false;  
486         }  
487         return true;  
488     }  
489  
490     private Boolean downloadCommentsAndParse(){  
491         HashMap<String, String> data = new HashMap<>();  
492         data.put("iduser", mUser.getId().toString().trim());  
493         String json = mNetUtils.sendPostRequestJson(mSession.  
getURLPath()+PHPREQGETCOMMENTS,data);  
494         UUID uuid;  
495         Comment c;  
496         try {  
497             JSONArray jarr1=new JSONArray(json);  
498             for (int i=0; i<jarr1.length(); i++){  
499                 JSONObject obj = jarr1.getJSONObject(i);  
500                 c=mNetUtils.parseObjectComment(obj);  
501                 uuid=UUID.fromString(obj.getString("id_recipe"));  
502                 if (c!=null) {  
503                     for(Recipe r:mRecipes){  
504                         if (r.getId().equals(uuid)){  
505                             r.addComment(c);  
506                             break;  
507                         }  
508                     }  
509                 }  
510             }  
511         } catch (Exception e){  
512             deBugShow("Failure in parsing JSON Array Comments "+e);  
513             return false;
```

```

514         }
515     return true;
516 }
517
518 public ArrayList<User> parseJsonFamily(String json){
519     ArrayList<User> ret=new ArrayList<>();
520     User u;
521     String name,dateString;
522     UUID uuid;
523     Date date;
524     mPwdRead="";
525     try {
526         JSONArray jarr1=new JSONArray(json);
527         for (int i=0; i<jarr1.length(); i++){
528             JSONObject obj = jarr1.getJSONObject(i);
529             name=obj.getString("name");
530             uuid=UUID.fromString(obj.getString("id_user"));
531             u=new User(mFamilyEntered, name );
532             u.setId(uuid);
533             dateString=obj.getString("last_sync");
534             date=new SimpleDateFormat(MYSQLDATEFORMAT).parse(
535                 dateString);
536             u.setDate(date);
537             ret.add(u);
538             mPwdRead=obj.getString("pass");
539         }
540         catch (Exception e){
541             deBugShow("Failure in parsing JSON FamilyGet" +e);
542         }
543         return ret;
544     }
545     public ArrayList<Recipe> parseJsonCB(String json){
546         ArrayList<Recipe> result=new ArrayList<>();
547         Recipe r;
548         try {
549             JSONArray jarr1 = new JSONArray(json);
550             for (int j = 0; j < jarr1.length(); j++) {
551                 JSONObject obj = jarr1.getJSONObject(j);
552                 r = new Recipe(UUID.fromString(obj.getString("id_recipe")));
553                 if (mNetUtils.parseObjectRecipe(r,obj, true, true))
554                     result.add(r);
555             } catch (Exception e) {
556                 deBugShow( " Error parsing CB" + e);
557             }
558             return result;
559         }
560
561     private Integer goFamilyGet(){
562         switch(mState){
563             case NEW_SESSION :
564                 if (memberFamily.size()==0) {
565                     mEnterMessage.setText(R.string.P0ERM_nofam);
566                     mEnterFamily.setBackgroundColor(ContextCompat.
567                         getColor(getApplicationContext(), R.color.light_red)); }

```

```

567         else {
568             //mEnterMessage.setText(R.string.P0OKF);
569             User u= new User("", "");
570             for(User user:memberFamily){
571                 if (user.getName().equals(mMemberEntered)){u=
572                     user;}
573                 }
574                 if (u.getName().equals("")) {
575                     mEnterMessage.setText(R.string.P0ERF_nomem);
576                     mEnterMember.setBackgroundColor(ContextCompat
577 .getColor(getApplicationContext(), R.color.light_red));
578                 } else {
579                     if (!mPidRead.equals(mPwdEntered.trim())){
580                         mEnterMessage.setText(R.string.
581 P0ERP_wrong);
582                         mEnterPwd.setBackgroundColor(
583 ContextCompat.getColor(getApplicationContext(), R.color.light_red));
584                     } else {
585                         mUser=u;
586                         mEnterMessage.setText(getString(R.string.
587 P0OKP, u.getName())));
588                     return NEW_SESSION; }
589                 }
590             }
591             break;
592         }
593         case NEW_FAMILY : {
594             if (memberFamily.size()==0) {
595                 mEnterMessage.setText(R.string.P0OK_done);
596                 return NEW_FAMILY;
597             }
598             else {
599                 mEnterMessage.setText(R.string.P0ERF_notnew);
600                 mEnterFamily.setBackgroundColor(ContextCompat.
601 getColor(getApplicationContext(), R.color.light_red));
602             }
603             break;
604         }
605         case NEW_MEMBER : {
606             if (memberFamily.size()==0) {
607                 mEnterMessage.setText(R.string.P0ERM_nofam);
608                 mEnterFamily.setBackgroundColor(ContextCompat.
609 getColor(getApplicationContext(), R.color.light_red));
610             }
611             else {
612                 // family found
613                 User u= new User("", "");
614                 for(User user:memberFamily){
615                     if (user.getName().equals(mMemberEntered)){u=
616                     user;}
617                     }
618                     if (u.getName().equals("")) {
619                         if (!mPidRead.equals(mPwdEntered.trim())){
620                             mEnterMessage.setText(R.string.
621 P0ERP_wrong);
622                             mEnterPwd.setBackgroundColor(
623 ContextCompat.getColor(getApplicationContext(), R.color.light_red));

```

```
614 } else {  
615     mEnterMessage.setText(R.string.P00KM);  
616     return NEW_MEMBER;  
617 } else {  
618     mEnterMessage.setText(R.string.P0ERM_notnew);  
619     mEnterMember.setBackgroundColor(ContextCompat  
     .getColor(getApplicationContext(), R.color.light_red));  
620 }  
621 }  
622 break;  
623 }  
624 default :  
625     deBugShow( "Switch case on mState anomaly : "+mState  
 );  
626 }  
627 }  
628 return 0;  
629 }  
630 private void deBugShow(String s){  
631     //Log.d(TAG, s);  
632 }  
633 }  
634 }
```

```

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                     conn.setReadTimeout(mSession.getReadTimeout());
34                     conn.setRequestMethod("HEAD");
35                     InputStream in = conn.getInputStream();
36                     int status = conn.getResponseCode();
37                     in.close();
38                     conn.disconnect();
39                     if (status == HttpURLConnection.HTTP_NO_CONTENT) {
40                         //Log.d(TAG, "Test 204 : true ");
41                         return true;
42                     } else {return false;}
43                 } catch (Exception e) {return false;}
44             }
45
46             @Override
47             protected void onPostExecute(Boolean s) {
48                 super.onPostExecute(s);
49                 mSession.setConnection(s);
50             }
51
52             testCon test = new testCon();
53             test.execute();
54         }
55     }

```

```

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 " ("+
28         " _id integer primary key autoincrement, "+
29         RecipeDbSchema.RecipeTable.Cols.UUID+", "+
30         RecipeDbSchema.RecipeTable.Cols.OWNER+", "+
31         RecipeDbSchema.RecipeTable.Cols.TITLE+", "+
32         RecipeDbSchema.RecipeTable.Cols.SOURCE+", "+
33         RecipeDbSchema.RecipeTable.Cols.SOURCE_URL+", "+
34         RecipeDbSchema.RecipeTable.Cols.DATE+", "+
35         RecipeDbSchema.RecipeTable.Cols.DATE_PHOTO+", "+
36         RecipeDbSchema.RecipeTable.Cols.NBPERS+", "+
37         st +
38         si +
39         RecipeDbSchema.RecipeTable.Cols.SEASON+", "+
40         RecipeDbSchema.RecipeTable.Cols.DIFFICULTY+", "+
41         RecipeDbSchema.RecipeTable.Cols.TYPE+", "+
42         RecipeDbSchema.RecipeTable.Cols.COMMENTS+", "+
43         RecipeDbSchema.RecipeTable.Cols.STATUS+", "+
44         RecipeDbSchema.RecipeTable.Cols.NOTES+", "+
45         RecipeDbSchema.RecipeTable.Cols.MESSAGE+", "+
46         RecipeDbSchema.RecipeTable.Cols.MESSAGE_FROM+", "+
47         RecipeDbSchema.RecipeTable.Cols.TS_RECIPE+", "+
48         RecipeDbSchema.RecipeTable.Cols.TS_PHOTO+", "+
49         RecipeDbSchema.RecipeTable.Cols.TS_COMMENT+", "+
50         RecipeDbSchema.RecipeTable.Cols.TS_NOTE+
51     );
52
53    }
54
55    @Override

```

```
56     public void onUpgrade(SQLiteDatabase db, int oldVersion, int
57     newVersion) {
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(
getActivity())
39             .setView(v)
40             .setTitle(R.string.DS_title)
41             .setPositiveButton(android.R.string.ok,
42                 new DialogInterface.OnClickListener() {
43                     @Override
44                     public void onClick(DialogInterface dialog
, int which) {
45                         mRate=(int) ratingBar.getRating();
46                         addNotetorecipe();
47                         sendResult(Activity.RESULT_OK, mRate);
48                     }
49                 });
50         dialog.setNegativeButton("Cancel",
51             new DialogInterface.OnClickListener() {
52
53                 @Override
54                 public void onClick(DialogInterface dialog, int

```

```
54 which) {
55         return ;
56     });
57     AlertDialog dia=dialog.show();
58     Button b=dia.getButton(DialogInterface.BUTTON_POSITIVE);
59     if (b != null) {
60         b.setTextColor(getResources().getColor(R.color.fg_icon));
61     }
62     return dia;
63 }
64
65
66 private void sendResult(int resultCode, int rate) {
67     if (getTargetFragment() == null) {
68         return;
69     }
70     // renvoie le new rating (cela ne sert 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.support.v4.view.MenuCompat;
15 import android.text.Editable;
16 import android.text.TextWatcher;
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.AdapterView;
25 import android.widget.ArrayAdapter;
26 import android.widget.EditText;
27 import android.widget.ImageButton;
28 import android.widget.ImageView;
29 import android.widget ScrollView;
30 import android.widget Spinner;
31 import android.widget.TextView;
32
33 import java.io.File;
34 import java.io.FileOutputStream;
35 import java.io.IOException;
36 import java.io.InputStream;
37 import java.net.MalformedURLException;
38 import java.net.URL;
39 import java.util.Date;
40 import java.util.List;
41 import java.util.UUID;
42
43 public class RecipeEditFragment extends Fragment {
44     // Constantes
45     private static final String ARG_RECIPE_ID="recipe_id";
46     private static final int PICK_IMAGE= 3;
47     private static final String TAG = "CB_EditFrag";
48     private static final String FPROVIDER="com.fdx.cookbook.
fileprovider";
49     private static final String UUDINULL="00000000-0000-0000-0000-
000000000000";
50     private Recipe mRecipe;
51     private Recipe mRecipeInit;
52     private UUID mRecipeId;
53     private File mPhotoFile;
54     private EditText mTitleField;
55     private EditText mSourceField;
```

```

56     private EditText mSourceUrl;
57     private EditText mNbPersField;
58     private TextView[] mStepTextNum;
59     private EditText[] mStepTextEdit;
60     private ImageButton mStepInc;
61     private int mStepNb;
62     private TextView[] mIngTextNum;
63     private EditText[] mIngTextEdit;
64     private ImageButton mIngInc;
65     private int mIngNb;
66     private Spinner mSeasonSpinner;
67     private Spinner mTypeSpinner;
68     private Spinner mDifficultySpinner;
69     private ScrollView mScroll;
70     private ImageView mPhotoView;
71     private Bitmap mBmp;
72
73     public static RecipeEditFragment newInstance(UUID recipeId){
74         Bundle args=new Bundle();
75         args.putSerializable(ARG_RECIPE_ID, recipeId);
76         RecipeEditFragment fragment=new RecipeEditFragment();
77         fragment.setArguments(args);
78         return fragment;
79     }
80
81     @Override
82     public void onCreate(Bundle savedInstanceState){
83         super.onCreate(savedInstanceState);
84         mRecipe=new Recipe();
85         mRecipeInit=new Recipe();
86         mRecipeId=(UUID) getArguments().getSerializable(ARG_RECIPE_ID)
87     );
88         setHasOptionsMenu(true);
89         SessionInfo session=SessionInfo.get(getActivity());
90         if (!IsRecipeNew(mRecipeId)) {
91             mRecipe=CookBook.get(getActivity()).getRecipe(mRecipeId);
92             mRecipeInit=CookBook.get(getActivity()).getRecipe(
93                 mRecipeId);
94             mPhotoFile=CookBook.get(getActivity()).getPhotoFile(
95                 mRecipe);
96         } else {
97             mRecipe.setOwner(session.getUser());
98             mRecipeInit.setOwner(session.getUser());
99             mRecipeInit.setId(mRecipe.getId());
100        }
101
102    @Override
103    public void onPause(){
104        super.onPause();
105    }
106
107    @Override
108    public void onCreateOptionsMenu(Menu menu, MenuInflater inflater
) {

```

```

109         super.onCreateOptionsMenu(menu, inflater);
110         inflater.inflate(R.menu.fragment_recipe, menu);
111     }
112
113
114     @Override
115     public boolean onOptionsItemSelected(MenuItem item) {
116         switch (item.getItemId()) {
117             case R.id.recipe_menu_done:
118                 if (mRecipe.getTitle().length()>0){
119                     if (!mRecipe.hasNotChangedSince(mRecipeInit)){
120                         mRecipe.updateTS(AsynCallFlag.NEWRECIPE, true);
121                         mRecipe.setDate(new Date());
122                     }
123                     if (mBmp!=null){
124                         NetworkUtils networkutils=new NetworkUtils(
125                             getContext());
126                         networkutils.saveBmpInRecipe(mBmp, mRecipe);
127                         mRecipe.setDatePhoto(new Date());
128                         mRecipe.updateTS(AsynCallFlag.NEWPHOTO,true);
129                     }
130                     if (IsRecipeNew(mRecipeId)){
131                         CookBook.get(getActivity()).addRecipe(mRecipe
132 );
133                     } else {
134                         CookBook.get(getActivity()).updateRecipe(
135                             mRecipe);
136                     }
137                     getActivity().onBackPressed();
138                     return true;
139                 case R.id.recipe_menu_delete:
140                     if (!IsRecipeNew(mRecipeId)){
141                         CookBook.get(getActivity()).markRecipeToDelete(
142                             mRecipe);
143                     }
144                     getActivity().onBackPressed();
145                     return true;
146                 default:
147                     return super.onOptionsItemSelected(item);
148     }
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,
154         container, false);
155         mScroll=(ScrollView) v.findViewById(R.id.
156         fragment_recipe_scroll);
157         mPhotoView=(ImageView) v.findViewById(R.id.recipe_photo);
158         updatePhotoView();
159         mPhotoView.setOnClickListener(new View.OnClickListener() {
160             @Override
161             public void onClick(View v) {
162                 Intent intent = new Intent();

```

```

159             intent.setType("image/*");
160             intent.setAction(Intent.ACTION_GET_CONTENT);
161             startActivityForResult(Intent.createChooser(intent, "
162                 Select Picture"), PICK_IMAGE);
163             }
164             mTitleField= (EditText) v.findViewById(R.id.recipe_title);
165             mTitleField.setText(mRecipe.getTitle());
166             mTitleField.addTextChangedListener(new TextWatcher() {
167                 @Override
168                     public void beforeTextChanged(CharSequence s, int start,
169                         int count, int after) {
170                         }
171                         @Override
172                             public void onTextChanged(CharSequence s, int start, int
173                             before, int count) {
174                                 mRecipe.setTitle(s.toString());
175                             }
176                             @Override
177                                 public void afterTextChanged(Editable s) {
178                                     }
179                             });
180
181             mSourceField= (EditText) v.findViewById(R.id.recipe_source);
182             mSourceField.setText(mRecipe.getSource());
183             mSourceField.addTextChangedListener(new TextWatcher() {
184                 @Override
185                     public void beforeTextChanged(CharSequence s, int start,
186                         int count, int after) {
187                         }
188                         @Override
189                             public void onTextChanged(CharSequence s, int start, int
190                             before, int count) {
191                                 mRecipe.setSource(s.toString());
192                             }
193                             @Override
194                                 public void afterTextChanged(Editable s) {
195                                     }
196                             });
197
198             mSourceUrl=(EditText) v.findViewById(R.id.recipe_source_url);
199             mSourceUrl.setText(mRecipe.getSource_url().toString());
200             mSourceUrl.addTextChangedListener(new TextWatcher() {
201                 @Override
202                     public void beforeTextChanged(CharSequence s, int start,
203                         int count, int after) {
204                         }
205                         @Override
206                             public void onTextChanged(CharSequence s, int start, int
207                             before, int count) {
208                                 if (s.toString().equals("")) {} else {

```

```
209             try {
210                 URL url=new URL(s.toString());
211                 mRecipe.setSource_url(url);
212             } catch (MalformedURLException e) {
213                 deBug( "onTextChanged de mSource_url >" + s.
214                     toString()+"< Failed >"+ e);
215             }
216         }
217     }
218
219     @Override
220     public void afterTextChanged(Editable s) {
221     }
222
223     mNbPersField= (EditText) v.findViewById(R.id.recipe_nbpers);
224     mNbPersField.setText(mRecipe.getNbPers()+"");
225     mNbPersField.addTextChangedListener(new TextWatcher() {
226         @Override
227         public void beforeTextChanged(CharSequence s, int start,
228             int count, int after) {
229
230
231         @Override
232         public void onTextChanged(CharSequence s, int start, int
233             before, int count) {
234             if (s.toString().equals("")) {} else {
235                 int nb_entered = Integer.parseInt(s.toString());
236                 if ((nb_entered > 0) && (nb_entered < 13)) {
237                     mRecipe.setNbPers(nb_entered);
238                 }
239             }
240
241         @Override
242         public void afterTextChanged(Editable s) {
243
244             }
245         });
246
247     mSeasonSpinner= (Spinner) v.findViewById(R.id.recipe_season);
248     ArrayAdapter<CharSequence> adapterSeason = ArrayAdapter.
249         createFromResource(getContext(),
250             R.array.recipe_season_array, R.layout.
251             edit_spinner_item);
252     mSeasonSpinner.setAdapter(adapterSeason);
253     mSeasonSpinner.setSelection(RecipeSeason.getIndex(mRecipe.
254         getSeason()));
255     mSeasonSpinner.setOnItemSelectedListener(new AdapterView.
256         OnItemSelectedListener() {
257             @Override
258             public void onItemSelected(AdapterView<?> parent, View
259                 view, int position, long id) {
260                 mRecipe.setSeason(RecipeSeason.getSeason(position));
261             }
262
263 }
```

```

258         @Override
259         public void onNothingSelected(AdapterView<?> parent) {
260             }
261         });
262     });
263
264     mTypeSpinner= (Spinner) v.findViewById(R.id.recipe_type);
265     ArrayAdapter<CharSequence> adapterType = ArrayAdapter.
266     createFromResource(getContext(),
267                         R.array.recipe_type_array, R.layout.edit_spinner_item
268     );
269     mTypeSpinner.setAdapter(adapterType);
270     mTypeSpinner.setSelection(RecipeType.getType(mRecipe.getType
271     ()));
272     mTypeSpinner.setOnItemSelectedListener(new AdapterView.
273     OnItemSelectedListener() {
274         @Override
275         public void onItemSelected(AdapterView<?> parent, View
276         view, int position, long id) {
277             mRecipe.setType(RecipeType.getType(position));
278         }
279     });
280
281     mDifficultySpinner= (Spinner) v.findViewById(R.id.
282     recipe_difficulty);
283     ArrayAdapter<CharSequence> adapterDifficulty = ArrayAdapter.
284     createFromResource(getContext(),
285                         R.array.recipe_difficulty_array, R.layout.
286     edit_spinner_item);
287     mDifficultySpinner.setAdapter(adapterDifficulty);
288     mDifficultySpinner.setSelection(RecipeDifficulty.getIndex(
289     mRecipe.getDifficulty()));
290     mDifficultySpinner.setOnItemSelectedListener(new AdapterView.
291     OnItemSelectedListener() {
292         @Override
293         public void onItemSelected(AdapterView<?> parent, View
294         view, int position, long id) {
295             mRecipe.setDifficulty(RecipeDifficulty.getDifficulty(
296             position));
297         }
298
299         @Override
300         public void onNothingSelected(AdapterView<?> parent) {
301             }
302         });
303     final int[] rID= {R.id.recipe_S1,R.id.recipe_S2,R.id.
304     recipe_S3,R.id.recipe_S4,
305             R.id.recipe_S5,R.id.recipe_S6,R.id.recipe_S7,R.id.
306     recipe_S8,R.id.recipe_S9};
307     final int[] rID_in= {R.id.recipe_S1_in,R.id.recipe_S2_in,R.id.
308     recipe_S3_in,R.id.recipe_S4_in,

```

```

300             R.id.recipe_S5_in,R.id.recipe_S6_in,R.id.recipe_S7_in
301             ,R.id.recipe_S8_in,R.id.recipe_S9_in};
302             mStepTextNum= new TextView[mRecipe.getNbStepMax()];
303             mStepTextEdit=new EditText[mRecipe.getNbStepMax()];
304             for(int i=0;i<mRecipe.getNbStepMax();i++) {
305                 mStepTextNum[i] = (TextView) v.findViewById(rID[i]);
306                 mStepTextEdit[i] = (EditText) v.findViewById(rID_in[i]);
307             }
308             mStepInc=(ImageButton) v.findViewById(R.id.step_add);
309             updateListStep(v);
310
311             mStepTextEdit[0].addTextChangedListener(new TextWatcher() {
312                 @Override
313                 public void beforeTextChanged(CharSequence s, int start,
314                     int count, int after) { }
315                 @Override
316                 public void onTextChanged(CharSequence s, int start, int
317                     before, int count) {
318                     mRecipe.setStep(0+1, s.toString());
319                 }
320                 @Override
321                 public void afterTextChanged(Editable s) {}
322             });
323             mStepTextEdit[1].addTextChangedListener(new TextWatcher() {
324                 @Override
325                 public void beforeTextChanged(CharSequence s, int start, int
326                     before, int count) {
327                     mRecipe.setStep(1+1, s.toString());
328                 }
329                 @Override
330                 public void afterTextChanged(Editable s) {}
331             });
332             mStepTextEdit[2].addTextChangedListener(new TextWatcher() {
333                 @Override
334                 public void beforeTextChanged(CharSequence s, int start, int
335                     before, int count) {
336                     mRecipe.setStep(2+1, s.toString());
337                 }
338                 @Override
339                 public void afterTextChanged(Editable s) {}
340             });
341             mStepTextEdit[3].addTextChangedListener(new TextWatcher() {
342                 @Override
343                 public void beforeTextChanged(CharSequence s, int start, int
344                     before, int count) {
345                     mRecipe.setStep(3+1, s.toString());
346                 }
347                 @Override

```

```

348     public void afterTextChanged(Editable s) {}
349     });
350     mStepTextEdit[4].addTextChangedListener(new TextWatcher() {
351         @Override
352         public void beforeTextChanged(CharSequence s, int start,
353             int count, int after) { }
353         @Override
354         public void onTextChanged(CharSequence s, int start, int
355             before, int count) {
355                 mRecipe.setStep(4+1, s.toString());
356             }
357             @Override
358             public void afterTextChanged(Editable s) {}
359         });
360     mStepTextEdit[5].addTextChangedListener(new TextWatcher() {
361         @Override
362         public void beforeTextChanged(CharSequence s, int start,
363             int count, int after) { }
363         @Override
364         public void onTextChanged(CharSequence s, int start, int
365             before, int count) {
365                 mRecipe.setStep(5+1, s.toString());
366             }
367             @Override
368             public void afterTextChanged(Editable s) {}
369         });
370     mStepTextEdit[6].addTextChangedListener(new TextWatcher() {
371         @Override
372         public void beforeTextChanged(CharSequence s, int start,
373             int count, int after) { }
373         @Override
374         public void onTextChanged(CharSequence s, int start, int
375             before, int count) {
375                 mRecipe.setStep(6+1, s.toString());
376             }
377             @Override
378             public void afterTextChanged(Editable s) {}
379         });
380     mStepTextEdit[7].addTextChangedListener(new TextWatcher() {
381         @Override
382         public void beforeTextChanged(CharSequence s, int start,
383             int count, int after) { }
383         @Override
384         public void onTextChanged(CharSequence s, int start, int
385             before, int count) {
385                 mRecipe.setStep(7+1, s.toString());
386             }
387             @Override
388             public void afterTextChanged(Editable s) {}
389         });
390     mStepTextEdit[8].addTextChangedListener(new TextWatcher() {
391         @Override
392         public void beforeTextChanged(CharSequence s, int start,
393             int count, int after) { }
393         @Override
394         public void onTextChanged(CharSequence s, int start, int
394             before, int count) {

```

```

395             mRecipe.setStep(8+1, s.toString());
396         }
397         @Override
398         public void afterTextChanged(Editable s) {}
399     });
400
401     mStepInc.setOnClickListener(new View.OnClickListener() {
402         @Override
403         public void onClick(View v) {
404             updateListStep(v);
405         }
406     });
407
408     final int[] rIngID= {R.id.recipe_I01,R.id.recipe_I02,R.id.
409     recipe_I03,R.id.recipe_I04,
410             R.id.recipe_I05,R.id.recipe_I06,R.id.recipe_I07,R.id.
411     recipe_I08,
412             R.id.recipe_I09,R.id.recipe_I10,R.id.recipe_I11,R.id.
413     recipe_I12,
414             R.id.recipe_I13,R.id.recipe_I14,R.id.recipe_I15};
415     final int[] rIngID_in= {R.id.recipe_I01_in,R.id.recipe_I02_in
416     ,R.id.recipe_I03_in,R.id.recipe_I04_in,
417             R.id.recipe_I05_in,R.id.recipe_I06_in,R.id.
418     recipe_I07_in,R.id.recipe_I08_in,
419             R.id.recipe_I09_in,R.id.recipe_I10_in,R.id.
420     recipe_I11_in,R.id.recipe_I12_in,
421             R.id.recipe_I13_in,R.id.recipe_I14_in,R.id.
422     recipe_I15_in};
423     mIngTextNum= new TextView[mRecipe.getNbIngMax()];
424     mIngTextEdit=new EditText[mRecipe.getNbIngMax()];
425     for(int i=0;i<mRecipe.getNbIngMax();i++) {
426         mIngTextNum[i] = (TextView) v.findViewById(rIngID[i]);
427         mIngTextEdit[i] = (EditText) v.findViewById(rIngID_in[i
428     ]));
429     }
430     mIngInc=(ImageButton) v.findViewById(R.id.ing_add);
431     mIngTextEdit[0].setText(mRecipe.getIngredient(0 + 1));
432     mIngTextEdit[1].setText(mRecipe.getIngredient(1 + 1));
433     mIngTextEdit[2].setText(mRecipe.getIngredient(2 + 1));
434     mIngInc=(ImageButton) v.findViewById(R.id.ing_add);
435     updateListIng(v);
436
437     mIngTextEdit[0].addTextChangedListener(new TextWatcher() {
438         @Override
439         public void beforeTextChanged(CharSequence s, int start,
440             int count, int after) { }
441         @Override
442         public void onTextChanged(CharSequence s, int start, int
443             before, int count) {
444             mRecipe.setIngredient(0+1, s.toString());
445         }
446         @Override
447         public void afterTextChanged(Editable s) {}
448     });
449     mIngTextEdit[1].addTextChangedListener(new TextWatcher() {
450         @Override
451         public void beforeTextChanged(CharSequence s, int start,
452             int count, int after) { }
453         @Override
454         public void onTextChanged(CharSequence s, int start, int
455             before, int count) {
456             mRecipe.setIngredient(1+1, s.toString());
457         }
458         @Override
459         public void afterTextChanged(Editable s) {}
460     });
461 
```

```

441 int count, int after) { }
442         @Override
443         public void onTextChanged(CharSequence s, int start, int
444             before, int count) {
445                 mRecipe.setIngredient(1+1, s.toString());
446             }
447             @Override
448             public void afterTextChanged(Editable s) {}
449         });
450         mIngTextEdit[2].addTextChangedListener(new TextWatcher() {
451             @Override
452             public void beforeTextChanged(CharSequence s, int start,
453                 int count, int after) { }
454             @Override
455             public void onTextChanged(CharSequence s, int start, int
456                 before, int count) {
457                 mRecipe.setIngredient(2+1, s.toString());
458             }
459             @Override
460             public void afterTextChanged(Editable s) {}
461         });
462         mIngTextEdit[3].addTextChangedListener(new TextWatcher() {
463             @Override
464             public void beforeTextChanged(CharSequence s, int start,
465                 int count, int after) { }
466             @Override
467             public void onTextChanged(CharSequence s, int start, int
468                 before, int count) {
469                 mRecipe.setIngredient(3+1, s.toString());
470             }
471             @Override
472             public void afterTextChanged(Editable s) {}
473         });
474         mIngTextEdit[4].addTextChangedListener(new TextWatcher() {
475             @Override
476             public void beforeTextChanged(CharSequence s, int start,
477                 int count, int after) { }
478             @Override
479             public void onTextChanged(CharSequence s, int start, int
480                 before, int count) {
481                 mRecipe.setIngredient(4+1, s.toString());
482             }
483             @Override
484             public void afterTextChanged(Editable s) {}
485         });
486         mIngTextEdit[5].addTextChangedListener(new TextWatcher() {
487             @Override
488             public void beforeTextChanged(CharSequence s, int start,
489                 int count, int after) { }
490             @Override
491             public void onTextChanged(CharSequence s, int start, int
492                 before, int count) {
493                 mRecipe.setIngredient(5+1, s.toString());
494             }
495             @Override
496             public void afterTextChanged(Editable s) {}
497         });

```

```
489         mIngTextEdit[6].addTextChangedListener(new TextWatcher() {
490             @Override
491             public void beforeTextChanged(CharSequence s, int start,
492                 int count, int after) { }
492             @Override
493             public void onTextChanged(CharSequence s, int start, int
494                 before, int count) {
494                 mRecipe.setIngredient(6+1, s.toString());
495             }
496             @Override
497             public void afterTextChanged(Editable s) {}
498         });
499         mIngTextEdit[7].addTextChangedListener(new TextWatcher() {
500             @Override
501             public void beforeTextChanged(CharSequence s, int start,
502                 int count, int after) { }
502             @Override
503             public void onTextChanged(CharSequence s, int start, int
504                 before, int count) {
504                 mRecipe.setIngredient(7+1, s.toString());
505             }
506             @Override
507             public void afterTextChanged(Editable s) {}
508         });
509         mIngTextEdit[8].addTextChangedListener(new TextWatcher() {
510             @Override
511             public void beforeTextChanged(CharSequence s, int start,
511                 int count, int after) { }
512             @Override
513             public void onTextChanged(CharSequence s, int start, int
514                 before, int count) {
514                 mRecipe.setIngredient(8+1, s.toString());
515             }
516             @Override
517             public void afterTextChanged(Editable s) {}
518         });
519         mIngTextEdit[9].addTextChangedListener(new TextWatcher() {
520             @Override
521             public void beforeTextChanged(CharSequence s, int start,
521                 int count, int after) { }
522             @Override
523             public void onTextChanged(CharSequence s, int start, int
524                 before, int count) {
524                 mRecipe.setIngredient(9+1, s.toString());
525             }
526             @Override
527             public void afterTextChanged(Editable s) {}
528         });
529         mIngTextEdit[10].addTextChangedListener(new TextWatcher() {
530             @Override
531             public void beforeTextChanged(CharSequence s, int start,
531                 int count, int after) { }
532             @Override
533             public void onTextChanged(CharSequence s, int start, int
533                 before, int count) {
534                 mRecipe.setIngredient(10+1, s.toString());
535             }
536         });
537     }
538 }
```

```

536         @Override
537         public void afterTextChanged(Editable s) {}
538     });
539     mIngTextEdit[11].addTextChangedListener(new TextWatcher() {
540         @Override
541         public void beforeTextChanged(CharSequence s, int start,
542             int count, int after) { }
543         @Override
544         public void onTextChanged(CharSequence s, int start, int
545             before, int count) {
546             mRecipe.setIngredient(11+1, s.toString());
547         }
548         @Override
549         public void afterTextChanged(Editable s) {}
550     });
551     mIngTextEdit[12].addTextChangedListener(new TextWatcher() {
552         @Override
553         public void beforeTextChanged(CharSequence s, int start,
554             int count, int after) { }
555         @Override
556         public void onTextChanged(CharSequence s, int start, int
557             before, int count) {
558             mRecipe.setIngredient(12+1, s.toString());
559         }
560         @Override
561         public void afterTextChanged(Editable s) {}
562     });
563     mIngTextEdit[13].addTextChangedListener(new TextWatcher() {
564         @Override
565         public void beforeTextChanged(CharSequence s, int start,
566             int count, int after) { }
567         @Override
568         public void onTextChanged(CharSequence s, int start, int
569             before, int count) {
570             mRecipe.setIngredient(13+1, s.toString());
571         }
572         @Override
573         public void afterTextChanged(Editable s) {}
574     });
575     mIngTextEdit[14].addTextChangedListener(new TextWatcher() {
576         @Override
577         public void beforeTextChanged(CharSequence s, int start,
578             int count, int after) { }
579         @Override
580         public void onTextChanged(CharSequence s, int start, int
581             before, int count) {
582             mRecipe.setIngredient(14+1, s.toString());
583         }
584     });
585     mIngInc.setOnClickListener(new View.OnClickListener() {
586         @Override
587         public void onClick(View v) {
588             updateListIng(v);
589         }
590     });

```

```

585         return v;
586     }
587
588
589
590     @Override
591     public void onActivityResult(int requestCode, int resultCode,
Intent data) {
592         if (resultCode != Activity.RESULT_OK) {
593             return;
594         }
595         if (requestCode==PICK_IMAGE){
596             if (data == null) return ;
597             try{
598                 InputStream inputStream = getContext().getContentResolver()
599                 .openInputStream(data.getData());
600                 PictureUtils picutil=new PictureUtils();
601                 Bitmap bmp=BitmapFactory.decodeStream(inputStream);
602                 mBmp=picutil.getScaledBitmap(bmp,600);
603                 mPhotoView.setImageBitmap(mBmp);
604             } catch(Exception e) {
605                 deBug("recover onActivityResult error:"+e);
606             }
607         }
608
609         private void updatePhotoView(){
610             if (mPhotoFile==null || !mPhotoFile.exists()){
611                 mPhotoView.setImageDrawable(getResources().getDrawable(R.
612                     drawable.ic_recipe_camera));
613             } else {
614                 Bitmap bitmap=PictureUtils.getScaledBitmap(mPhotoFile.
615                     getPath(), getActivity());
616                 mPhotoView.setImageBitmap(bitmap);
617             }
618         private void updateListStep(View v) {
619             String cas;
620             int i_cur=mRecipe.getNbStep();
621             int i_max=mRecipe.getNbStepMax();
622             for (int i=0;i<mRecipe.getNbStepMax();i++) {
623                 cas = "NOTVISIBLE";
624                 if (i == 0) cas = "FIRST";
625                 if (i < i_cur) cas = "ACTIVE";
626                 if ((i == i_cur)&&(i_cur< i_max)) cas = "EMPTY_READY";
627                 if ((i == i_cur)&&(i_cur==i_max)) cas = "ACTIVE";
628                 switch (cas) {
629                     case "FIRST":
630                         if (mRecipe.getNbStep() == 0) {
631                             mStepTextEdit[i].setText("");
632                             mStepTextEdit[i].setHint(R.string.P3S1H);}
633                         else mStepTextEdit[i].setText(mRecipe.getStep(i
634 + 1));
635                     break;
636                     case "ACTIVE":
637                         mStepTextNum[i].setVisibility(View.VISIBLE);

```

```

637                     mStepTextEdit[i].setVisibility(View.VISIBLE);
638                     mStepTextEdit[i].setText(mRecipe.getStep(i + 1));
639                     mStepTextEdit[i].setHint("");
640                     break;
641             case "EMPTY_READY":
642                     mStepTextNum[i].setVisibility(View.VISIBLE);
643                     mStepTextEdit[i].setVisibility(View.VISIBLE);
644                     mStepTextEdit[i].setText("");
645                     mStepTextEdit[i].setHint(R.string.P3S1H);
646                     break;
647             case "NOTVISIBLE":
648                     mStepTextNum[i].setVisibility(View.GONE);
649                     mStepTextEdit[i].setVisibility(View.GONE);
650                     mStepTextEdit[i].setText("");
651                     mStepTextEdit[i].setHint("");
652         }
653     }
654 }
655
656 private void updateListIng(View v) {
657     String cas;
658     int i_cur=mRecipe.getNbIng();
659     int i_max=mRecipe.getNbIngMax();
660     for (int i=0;i<mRecipe.getNbIngMax();i++) {
661         cas = "NOTVISIBLE";
662         if (i == 0) cas = "FIRST";
663         if (i < i_cur) cas = "ACTIVE";
664         if ((i == i_cur)&&(i_cur< i_max)) cas = "EMPTY_READY";
665         if ((i == i_cur)&&(i_cur==i_max)) cas = "ACTIVE";
666         switch (cas) {
667             case "FIRST":
668                 if (mRecipe.getNbIng() == 0) {
669                     mIngTextEdit[i].setText("");
670                     mIngTextEdit[i].setHint(R.string.P3IT);}
671                 else mIngTextEdit[i].setText(mRecipe.
672         getIngredient(i + 1));
673                 break;
674             case "ACTIVE":
675                 mIngTextNum[i].setVisibility(View.VISIBLE);
676                 mIngTextEdit[i].setVisibility(View.VISIBLE);
677                 mIngTextEdit[i].setText(mRecipe.getIngredient(i
678 + 1));
679                 mIngTextEdit[i].setHint("");
680                 break;
681             case "EMPTY_READY":
682                 mIngTextNum[i].setVisibility(View.VISIBLE);
683                 mIngTextEdit[i].setVisibility(View.VISIBLE);
684                 mIngTextEdit[i].setText("");
685                 mIngTextEdit[i].setHint(R.string.P3IT);
686                 break;
687             case "NOTVISIBLE":
688                 mIngTextNum[i].setVisibility(View.GONE);
689                 mIngTextEdit[i].setVisibility(View.GONE);
690                 mIngTextEdit[i].setText("");
691                 mIngTextEdit[i].setHint("");
692         }
693     }

```

```
692     }
693
694     private Boolean IsRecipeNew(UUID uuid){
695         return uuid.toString().equals(UUIDNULL);
696     }
697
698     private void deBug(String s){
699         // Log.d(TAG, s);
700     }
701 }
702
```

```
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
73     @Override
74     public void onActivityResult(int requestCode, int resultCode,
75     Intent data) {
76         if (resultCode != Activity.RESULT_OK) return;
77         else {
78             startSync();
79             updateUI();}
80         }
81
82     @Override
83     public View onCreateView(LayoutInflater inflater, ViewGroup
84     container,
85             Bundle savedInstanceState) {
86         View view = inflater.inflate(R.layout.fragment_recipe_list,
87     container, false);
88         mRecipeRecyclerView = (RecyclerView) view.findViewById(R.id.
89     recipe_recycler_view);
90         mRecipeRecyclerView.setLayoutManager(new LinearLayoutManager(
91     getActivity()));
92         if (savedInstanceState!=null){
93             mListMask.updateFromString(savedInstanceState.getString(
94     SAVED_SORT_STATUS));
95         }
96         updateUI();
97         return view;
98     }
99
100    @Override
101    public void onResume(){
102        super.onResume();
103        startSync();
104        String mask=mSession.getListMask();
105        if ((!mask.equals(""))&&(mask!=null)) mListMask.
106        updateFromString(mask);
107        updateUI();
108    }
109
110    @Override
111    public void onPause(){
112        super.onPause();
113        mSession.setListMask(mListMask.convertToString());
114    }

```

```

104
105     @Override
106     public void onSaveInstanceState(Bundle outState) {
107         super.onSaveInstanceState(outState);
108         outState.putString(SAVED_SORT_STATUS, mListMask.
109             convertToString());
110     }
111
112     @Override
113     public void onCreateOptionsMenu(Menu menu, MenuInflater inflater
114     ){
115         super.onCreateOptionsMenu(menu, inflater);
116         inflater.inflate(R.menu.fragment_recipe_list, menu);
117         mMessageItem = menu.findItem(R.id.new_mail);
118         CookBook cookbook=CookBook.get(getActivity());
119         Boolean b=((cookbook.isThereMail())||(mSession.
120             IsRecipeRequest()));
121         mMessageItem.setVisible(b);
122         mMessageItem.setShowAsAction(b ? MenuItem.
123             SHOW_AS_ACTION_ALWAYS:MenuItem.SHOW_AS_ACTION_NEVER);
124         //MenuCompat.setGroupDividerEnabled(menu, true);
125         MenuItem searchItem = menu.findItem(R.id.menu_item_search);
126         final SearchView searchView = (SearchView) searchItem.
127             getActionView();
128         searchView.setOnQueryTextListener(new SearchView.
129             OnQueryTextListener() {
130             @Override
131             public boolean onQueryTextSubmit(String s) {
132                 Toast.makeText(getContext(), getString(mListMask.
133                     toggleSearch(s)),
134                     Toast.LENGTH_SHORT ).show();
135                 updateUI();
136                 return true;
137             }
138             return false;
139         });
140     }
141
142
143     @Override
144     public boolean onOptionsItemSelected(MenuItem item){
145         Intent intent;
146         switch (item.getItemId()){
147             case R.id.new_recipe:
148                 intent= RecipeActivity.newIntent(getActivity(), UUID.
149                     fromString( UUIDNULL));
150                 startActivity(intent);
151                 return true;
152             case R.id.list_logout:

```

```

152             mSession.setReqNewSession(true);
153             intent=new Intent(getActivity().getApplicationContext
154             (), SplashActivity.class);
155             startActivity(intent);
156             return true;
157             case R.id.list_sync:
158                 startSync();
159                 return true;
160             case R.id.new_mail:
161                 CookBook cookbook=CookBook.get(getActivity());
162                 Boolean thereismail=(cookbook.isThereMail())||(

mSession.IsRecipeRequest());
163                     if (!thereismail) {
164                         mMessageItem.setVisible(false);
165                         mMessageItem.setShowAsAction(MenuItem.
SHOW_AS_ACTION_NEVER);
166                     } else {
167                         intent= RecipeMailDisplayActivity.newIntent(
getActivity());
168                         startActivity(intent);
169                     }
170                     return true;
171             case R.id.list_filter:
172                 mListMask.reset();
173                 updateUI();
174                 return true;
175             case R.id.list_com:
176                 intent= RecipeCommunityActivity.newIntent(getActivity
());
177                 startActivity(intent);
178                 return true;
179             case R.id.feedback:
180                 intent = new Intent(Intent.ACTION_SENDTO);
181                 intent.putExtra(Intent.EXTRA_SUBJECT, "Feedback on
application");
182                 intent.putExtra(Intent.EXTRA_TEXT, "Your comment");
183                 intent.setData(Uri.parse("mailto:cookbookfamily.
founder@gmail.com"));
184                 intent.addFlags(Intent.FLAG_ACTIVITY_NEW_TASK);
185                 startActivity(intent);
186                 return true;
187             default:
188                 return super.onOptionsItemSelected(item);
189             }
190
191     private void startSync(){
192         AsyncTask.Status as=mInstanceAsync.getStatus();
193         if (as== AsyncTask.Status.RUNNING){
194         }
195         if (as== AsyncTask.Status.PENDING){
196             mInstanceAsync.execute();
197         }
198         if (as== AsyncTask.Status.FINISHED){
199             mInstanceAsync=new AsyncCallClass(getContext());
200             mInstanceAsync.execute();
201         }

```

```

202     }
203
204     private void updateUI() {
205         CookBook cookbook=CookBook.get(getActivity());
206         List<Recipe> recipes_in=cookbook.getRecipes();
207         List<Recipe> recipes=new ArrayList<>();
208         recipes.addAll(recipes_in);
209         for(Recipe r:recipes_in){
210             if (!mListMask.isRecipeSelected(r)) recipes.remove(r);
211         }
212         if (recipes.isEmpty()){
213             Integer message;
214             if (cookbook.getRecipesVisibles().isEmpty())
215                 message = (cookbook.isThereMail() ? R.string.TEW : R.
216 string.TEZ);
217             else message=R.string.TEY;
218             Toast.makeText(getContext(), getString(message), Toast.
219 LENGTH_LONG).show();
220         } else {
221             if (mListMask.isTitleSorted()) {
222                 Collections.sort(recipes,
223                     (r1, r2) -> {
224                     return (r1.getTitle()).compareTo(r2.
225 getTitle()));
226                 });
227             } else {
228                 Collections.sort(recipes,
229                     (r1, r2) -> {
230                     return (r2.getDate()).compareTo(r1.getDate()
231 ());
232                 });
233             }
234             if (mListMask.isNoteSorted()) {
235                 Collections.sort(recipes,
236                     (r1, r2) -> {
237                     int)(100* (r2.getNoteAvg() - r1.getNoteAvg())));
238                 });
239             }
240         }
241         if (mAdapter==null){
242             mAdapter=new RecipeAdapter(recipes);
243             mRecipeRecyclerView.setAdapter(mAdapter);
244         } else {
245             mAdapter.setRecipes(recipes);
246             mAdapter.notifyDataSetChanged();
247         }
248         private TextView mTitleTextView;
249         private TextView mSourceTextView;
250         private TextView mNoteTextView;
251         private TextView mRatingTextView;
252         private TextView mDifficulty;
253         private TextView mType;

```

```

254     private ImageView mEditIcon;
255     private ImageView mPhotoView;
256     private ImageView mSunIcon;
257     private ImageView mIceIcon;
258     private File mPhotoFile;
259     private Recipe mRecipe;
260     private RatingBar mRating;
261     public RecipeHolder(LayoutInflater inflater, ViewGroup parent
262 ) {
263         super(inflater.inflate(R.layout.list_item_recipe, parent
264 , false));
265         itemView.setOnClickListener(this);
266         mTitleTextView= (TextView) itemView.findViewById(R.id.
267 recipe_title);
268         mSourceTextView= (TextView) itemView.findViewById(R.id.
269 recipe_source);
270         mNoteTextView= (TextView) itemView.findViewById(R.id.
271 recipe_note);
272         mNoteTextView= (TextView) itemView.findViewById(R.id.
273 recipe_note);
274         mEditIcon=(ImageView) itemView.findViewById(R.id.
275 recipe_edit);
276         mSunIcon=(ImageView) itemView.findViewById(R.id.
277 recipe_img_sun);
278         mIceIcon=(ImageView) itemView.findViewById(R.id.
279 recipe_img_ice);
280         mDifficulty=(TextView) itemView.findViewById(R.id.
281 recipe_difficulty);
282         mType=(TextView) itemView.findViewById(R.id.recipe_type);
283         mPhotoView=(ImageView) itemView.findViewById(R.id.
284 recipe_photo);
285         mPhotoFile=CookBook.get(getActivity()).getPhotoFile(
286 mRecipe);
287         mRating=(RatingBar) itemView.findViewById(R.id.
288 recipe_list_ratingBar);
289         mRatingTextView= (TextView) itemView.findViewById(R.id.
290 textEmpty);
291         mRatingTextView.setOnClickListener(new View.
292 OnClickListener() {
293             @Override
294             public void onClick(View v) {
295                 FragmentManager manager = getFragmentManager();
296                 RatePickerFragment dialog = RatePickerFragment.
297 newInstance(mRecipe.getId());
298                 dialog.setTargetFragment(RecipeListFragment.this
299 , REQUEST_RATE);
300                 dialog.show(manager, DIALOG_RATE);
301             }
302         });
303         mTitleTextView.setOnClickListener(new View.
304 OnClickListener() {
305             @Override
306             public void onClick(View v) {
307                 Toast.makeText(getContext(),
308                     getString(mListMask.toggleTitle()),
309                     Toast.LENGTH_SHORT ).show();
310                 updateUI();
311             }
312         });
313     }
314 
```

```

293             }
294         });
295         mNoteTextView.setOnClickListener(new View.OnClickListener()
296         () {
297             @Override
298             public void onClick(View v){
299                 Toast.makeText(getContext(), getString(mListMask.
toggleSortNote()), Toast.LENGTH_SHORT ).show();
300                 updateUI();
301             }
302         });
303         mSourceTextView.setOnClickListener(new View.
304         OnClickListener() {
305             @Override
306             public void onClick(View v) {
307                 Toast.makeText(getContext(), getString(mListMask.
toggleUser(mRecipe.getOwner())),
308                     mRecipe.getOwner().getName()),Toast.
LENGTH_SHORT ).show();
309                 updateUI();
310             }
311         });
312         mSunIcon.setOnClickListener(new View.OnClickListener() {
313             @Override
314             public void onClick(View v) {
315                 Toast.makeText(getContext(), getString(mListMask.
toggleSun()),Toast.LENGTH_SHORT ).show();
316                 updateUI();
317             }
318         });
319         mIceIcon.setOnClickListener(new View.OnClickListener() {
320             @Override
321             public void onClick(View v) {
322                 Toast.makeText(getContext(), getString(mListMask.
toggleWinter()), Toast.LENGTH_SHORT ).show();
323                 updateUI();
324             }
325         });
326         mDifficulty.setOnClickListener(new View.OnClickListener()
327         () {
328             @Override
329             public void onClick(View v) {
330                 Toast.makeText(getContext(),
331                     getString(mListMask.toggleDifficulty(
mRecipe.getDifficulty()))),
332                     Toast.LENGTH_SHORT ).show();
333                 updateUI();
334             }
335         });
336         mType.setOnClickListener(new View.OnClickListener() {
337             @Override
338             public void onClick(View v) {
339                 Toast.makeText(getContext(),
340                     getString(mListMask.toggleType(mRecipe.
getType()))),

```

```

340                     Toast.LENGTH_SHORT ).show();
341                 updateUI();
342             }
343         });
344         mEditIcon.setOnClickListener(new View.OnClickListener() {
345             @Override
346             public void onClick(View v) {
347                 Intent intent= RecipeActivity.newIntent(
348                     getActivity(),mRecipe.getId());
349                     startActivity(intent);
350             }
351         });
352         mPhotoView.setOnClickListener(new View.OnClickListener()
353             () {
354                 @Override
355                 public void onClick(View v) {
356                     Intent intent=RecipeDisplayActivity.newIntent(
357                     getActivity(),mRecipe.getId());
358                     startActivity(intent);
359             }
360             public void bind(Recipe recipe){
361                 mRecipe=recipe;
362                 mTitleTextView.setText(mRecipe.getTitle());
363                 mSourceTextView.setText(getString(R.string.P1_de, mRecipe
364                     .getOwner().getName()));
365                     //mSourceTextView.setText(mRecipe.getFlag()); // for
366                     debug
367                     mRating.setRating((float) mRecipe.getNoteAvg());
368                     DecimalFormat df = new DecimalFormat("#.#");
369                     mNoteTextView.setText(df.format(mRecipe.getNoteAvg())+
370                     " ("+mRecipe.getNbNotes()+"")");
371                     mPhotoFile=CookBook.get(getActivity()).getPhotoFile(
372                     mRecipe);
373                     int idff= RecipeDifficulty.getIndex(mRecipe.getDifficulty
374                     ());
375                     String[] stringArray = getResources().getStringArray(R.
376                     array.recipe_difficulty_array);
377                     mDifficulty.setText(stringArray[idff]);
378                     int ityp= RecipeType.getIndex(mRecipe.getType());
379                     String[] stringArrayTyp = getResources().getStringArray(R
380                     .array.recipe_type_array);
381                     mType.setText(stringArrayTyp[ityp]);
382                     if (mPhotoFile==null || !mPhotoFile.exists()){
383                         mPhotoView.setImageDrawable(getResources().
384                     getDrawable(R.drawable.ic_recipe_see));
385                     } else {
386                         Bitmap bitmap=PictureUtils.getScaledBitmap(mPhotoFile
387                     .getPath(), getActivity());
388                         mPhotoView.setImageBitmap(bitmap);
389                     }
390                     mIceIcon.setImageResource((mRecipe.IsWinter()) ? R.
391                     drawable.ic_recipe_ice : R.drawable.ic_recipe_ice_disabled);
392                     mSunIcon.setImageResource((mRecipe.IsSummer()) ? R.
393                     drawable.ic_recipe_sun : R.drawable.ic_recipe_sun_disabled);
394                     mEditIcon.setVisibility((mRecipe.getOwner().getId())
395

```

```
382 equals(mSession.getUser().getId()) ? View.VISIBLE : View.GONE);
383     }
384
385     @Override
386     public void onClick(View v){
387
388     }
389 }
390
391     private class RecipeAdapter extends RecyclerView.Adapter<
392     RecipeHolder> {
393         private List<Recipe> mRecipes;
394         public RecipeAdapter(List<Recipe> recipes){
395             mRecipes=recipes;
396         }
397
398         @NonNull
399         @Override
400         public RecipeHolder onCreateViewHolder(@NonNull ViewGroup
parent, int viewType) {
401             LayoutInflater layoutInflater=LayoutInflater.from(
getActivity());
402             return new RecipeHolder(layoutInflater, parent);
403         }
404
405         @Override
406         public void onBindViewHolder(@NonNull RecipeHolder
recipeHolder, int i) {
407             Recipe recipe=mRecipes.get(i);
408             recipeHolder.bind(recipe);
409         }
410
411         @Override
412         public int getItemCount() {
413             return mRecipes.size();
414         }
415
416         public void setRecipes(List<Recipe> recipes){
417             mRecipes=recipes;
418         }
419     }
420 }
```

```

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
25 ));
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
44 ]));
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             r.setIngredient(i+1, ing[i]);
51         }
52     }
53 }

```

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

```
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.
recipe_id";
11
12     public static Intent newIntent(Context packageContexte, UUID
recipeId) {
13         Intent intent=new Intent(packageContexte,
RecipeDisplayActivity.class);
14         intent.putExtra(EXTRA_RECIPE_ID, recipeId);
15         return intent;
16     }
17
18     @Override
19     protected Fragment createFragment() {
20         UUID recipeId=(UUID) getIntent().getSerializableExtra(
EXTRA_RECIPE_ID);
21         return RecipeDisplayFragment.newInstance(recipeId);
22     }
23 }
24
```

```
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         //todo pourquoi update recipe ?
100        CookBook.get(getActivity()).updateRecipe(mRecipe);
101    }
102
103    @Override
104    public void onCreateOptionsMenu(Menu menu, MenuInflater inflater
105 ) {
106        super.onCreateOptionsMenu(menu, inflater);
107        inflater.inflate(R.menu.fragment_recipe_display, menu);
108        MenuItem menuItem = menu.findItem(R.id.recipe_menu_edit);
109        if(!mRecipe.getOwner().getId().equals(mSession.getUser().
110 getId())){
111            menuItem.setVisible(false);
112        }
113    }

```

```

109      }
110  }
111
112  @Override
113  public boolean onOptionsItemSelected(MenuItem item) {
114      switch (item.getItemId()) {
115          case R.id.recipe_menu_report:
116              Intent i=new Intent(Intent.ACTION_SEND);
117              i.setType("text/plain");
118              i.putExtra(Intent.EXTRA_TEXT, getRecipeReport());
119              i.putExtra(Intent.EXTRA_SUBJECT,getString(R.string.
P2MU_send));
120              startActivity(i);
121              return true;
122          case R.id.recipe_menu_edit:
123              Intent intent= RecipeActivity.newIntent(getActivity
()),mRecipe.getId();
124              startActivity(intent);
125              return true;
126          case R.id.recipe_mail:
127              LinearLayout layout = new LinearLayout(getContext());
128              layout.setOrientation(LinearLayout.VERTICAL);
129              final EditText familyBox = new EditText(getContext
());
130              familyBox.setHint(getString(R.string.P0HF));
131              layout.addView(familyBox);
132              final EditText memberBox = new EditText(getContext
());
133              memberBox.setHint(getString(R.string.P0HM));
134              layout.addView(memberBox);
135              final EditText messageBox = new EditText(getContext
());
136              messageBox.setHint(getString(R.string.P4M_mes));
137              layout.addView(messageBox);
138              AlertDialog.Builder builder = new AlertDialog.Builder
(getContext());
139              builder.setTitle(getString(R.string.P4M_title));
140              builder.setView(layout);
141              builder.setPositiveButton("OK", new DialogInterface.
OnClickListener() {
142                  @Override
143                  public void onClick(DialogInterface dialog, int
which) {
144                      mToFamily = familyBox.getText().toString();
145                      mToMember = memberBox.getText().toString();
146                      mToMessage = messageBox.getText().toString();
147                      Boolean b=(Pattern.matches(REGEX_FAMILY,
mToFamily));
148                      b=b&&(Pattern.matches(REGEX_MEMBER,mToMember
));
149                      b=b&&(IsLenOK(mToFamily,MINMAX[0][0],MINMAX[0
][1]));
150                      b=b&&(IsLenOK(mToMember,MINMAX[1][0],MINMAX[1
][1]));
151                      b=b&&(Pattern.matches(REGEX_FAMILY,mToMessage
));
152                      if (b) {

```

```

153                     sendMailAsync sendmail = new sendMailAsync();
154                     sendmail.execute();
155                 } else {
156                     Toast.makeText(getActivity(),getString(R.
string.P4M_err), Toast.LENGTH_SHORT).show();
157                 }
158             });
159         builder.setNegativeButton("Cancel", new
DialogInterface.OnClickListener() {
160             @Override
161             public void onClick(DialogInterface dialog, int
which) {
162                 dialog.cancel();
163             }
164         });
165     );
166     builder.show();
167     return true;
168     case R.id.recipe_menu_delete:
169     CookBook.get(getActivity()).markRecipeToDelete(
mRecipe);
170     getActivity().onBackPressed();
171     default:
172     return super.onOptionsItemSelected(item);
173 }
174 }
175
176 @Override
177 public View onCreateView(LayoutInflater inflater, ViewGroup
container, Bundle savedInstanceState){
178     final View v=inflater.inflate(R.layout.
fragment_display_recipe, container, false);
179     mScroll=(ScrollView) v.findViewById(R.id.
fragment_recipe_scroll);
180     mDTitleText =(TextView) v.findViewById(R.id.
recipe_display_title);
181     mDPhotoView=(ImageView) v.findViewById(R.id.
recipe_display_photo);
182     updatePhotoView();
183     mDRatingBar=(RatingBar) v.findViewById(R.id.
recipe_display_ratingBar);
184     mDRatingBarText=(TextView) v.findViewById(R.id.
recipe_display_ratingBar_txt);
185     mDDifficulty=(TextView) v.findViewById(R.id.
recipe_display_difficulty);
186     mDType=(TextView) v.findViewById(R.id.recipe_display_type);
187     mSunIcon=(ImageView) v.findViewById(R.id.recipe_img_sun) ;
188     mIceIcon=(ImageView) v.findViewById(R.id.recipe_img_ice) ;
189     mDAuthorText=(TextView) v.findViewById(R.id.
recipe_display_author);
190     mDSourceText=(TextView) v.findViewById(R.id.
recipe_display_source);
191     mDSourceUrl=(TextView) v.findViewById(R.id.
recipe_display_source_url);
192     mDIingTitle=(TextView) v.findViewById(R.id.
recipe_display_title_ing);
193     mDStepTitle=(TextView) v.findViewById(R.id.

```



```

232         }
233
234         @Override
235         public void onTextChanged(CharSequence s, int start, int
before, int count) {
236             newcomment=s.toString();
237         }
238
239         @Override
240         public void afterTextChanged(Editable s) {
241
242         }
243     });
244     mDEnterComment=(ImageView) v.findViewById(R.id.
recipe_img_enter);
245     mDEnterComment.setOnClickListener(new View.OnClickListener
() {
246         @Override
247         public void onClick(View v) {
248             mRecipe.addComment(new Comment(newcomment, mSession.
getUser()));
249             mRecipe.updateTS(AsynCallFlag.NEWCOMMENT,true);
250             mDNextComment.setText("...");
251             updateUI();
252         }
253     });
254     return v;
255 }
256 private void updatePhotoView(){
257     if (mPhotoFile==null || !mPhotoFile.exists()){
258         mDPhotoView.setImageDrawable(getResources().getDrawable(R
.drawable.ic_recipe_camera));
259     } else {
260         Bitmap bitmap=PictureUtils.getScaledBitmap(mPhotoFile.
getPath(), getActivity());
261         mDPhotoView.setImageBitmap(bitmap);
262     }
263 }
264 private void updateUI(){
265     String s,s2;
266     User u=mRecipe.getOwner();
267     int ingMax=mRecipe.getNbIngMax();
268     int stepMax=mRecipe.getNbStepMax();
269     int comMax=mRecipe.getNbComMax();
270     int NbCom=mRecipe.getComments().size();
271     int gone=View.GONE, visible=View.VISIBLE;
272     DecimalFormat df = new DecimalFormat("#.#");
273     mDTitleText.setText(mRecipe.getTitle());
274     mDRatingBar.setRating((float) mRecipe.getNoteAvg());
275     mDRatingBarText.setText(df.format(mRecipe.getNoteAvg())+" ("+
+ mRecipe.getNotes().size()+")");
276     s=getString(R.string.P2U_txt,u.getName(),u.getFamily());
277     int idiff= RecipeDifficulty.getIndex(mRecipe.getDifficulty
());
278     String[] stringArrayDiff = getResources().getStringArray(R.
array.recipe_difficulty_array);
279     mDDifficulty.setText(stringArrayDiff[idiff]);

```

```

280         int ityp= RecipeType.getIndex(mRecipe.getType());
281         String[] stringArrayTyp = getResources().getStringArray(R.
array.recipe_type_array);
282         mDType.setText(stringArrayTyp[ityp]);
283         mSunIcon.setImageResource((mRecipe.IsSummer()) ? R.drawable.
ic_recipe_sun : R.drawable.ic_recipe_sun_disabled);
284         mIceIcon.setImageResource((mRecipe.IsWinter()) ? R.drawable.
ic_recipe_ice : R.drawable.ic_recipe_ice_disabled);
285         mDAuthorText.setText(s);
286         // source
287         s=mRecipe.getSource();
288         s2=mRecipe.getSource_url_name();
289         if (s.equals("")) mDSourceText.setVisibility(gone);
290         else mDSourceText.setText(s);
291         if ((s2.equals(DEFAULT_URL)) || (s2.equals("")))
{
292             mDSourceUrl.setVisibility(gone);
293             if (s.equals("")) mDSourceTitle.setVisibility(gone);
294         }
295         else mDSourceUrl.setText(s2);
296         // ingredients
297         s=getString(R.string.P2IT, ""+mRecipe.getNbPers());
298         if (mRecipe.getNbIng()>0) mDIngTitle.setText(s); else
mDIngTitle.setVisibility(gone);
299         for(int i=0;i<ingMax;i++){
300             if (mIngNb>0){mDIngText[i].setText("- "+mRecipe.
getIngredient(i+1));}
301             if (i>0){mDIngText[i].setVisibility((mIngNb>i)? visible:
gone);}
302         }
303         // steps
304         if (mRecipe.getNbStep()==0) mDStepTitle.setVisibility(gone);
305         for(int i=0;i<stepMax;i++){
306             if (mStepNb>0){mDStepText[i].setText((i+1)+". "+mRecipe.
getStep(i+1));}
307             if (i>0){mDStepText[i].setVisibility((mStepNb>i)? visible:
gone);}
308         }
309         // comments
310         s=getString(R.string.P2CT, ""+mRecipe.getComments().size());
311         mDComTitle.setText(s);
312         for(int i=0;i<comMax;i++){
313             if (NbCom>0){
314                 if (i<NbCom) {mDComText[i].setText("- "+mRecipe.
getComment(NbCom-i-1).toTxt());}
315                 else {mDComText[i].setText("");}
316             }
317             if (i>0){mDComText[i].setVisibility((NbCom>i)? visible:
gone);}
318         }
319     }
320     private Boolean IsLenOK(String s, int min, int max){
321         int l=s.length();
322         return ((l>min)&&(l<max));
323     }
324     private String getRecipeReport(){
325         String report;
326         Integer iplus;

```

```

327         report +=getString(R.string.P2RE_title, mRecipe.getTitle())+"\n";
328         report +=getString(R.string.P2RE_user, mRecipe.getOwner().getNameComplete())+"\n";
329         if(!mRecipe.getSource().equals("")){
330             report += getString(R.string.P2RE_src, mRecipe.getSource())+"\n";
331         }
332         if(!mRecipe.getSource_url_name().equals("")){
333             report += getString(R.string.P2RE_url, mRecipe.getSource_url_name())+"\n";
334         }
335         if (mRecipe.getNbIng()>0){
336             report +=getString(R.string.P1R_ing)+"\n";
337             for(int i=0;i<mRecipe.getNbIng();i++){
338                 report += getString(R.string.P2RE_ing, mRecipe.getIngredient(i+1))+"\n";
339             }
340         }
341         if (mRecipe.getNbStep()>0) {
342             report +=getString(R.string.P1R_step)+"\n";
343             for (int i = 0; i < mRecipe.getNbStep(); i++) {
344                 iplus = i + 1;
345                 report += getString(R.string.P2RE_step, iplus + "", mRecipe.getStep(i + 1)) + "\n";
346             }
347         }
348     }
349     report +=getString(R.string.P2RE_end);
350     return report;
351 }
352
353 /**
354 *                               ASYNC
355 */
356
357
358 class sendMailAsync extends AsyncTask<Void, Void, Boolean> {
359     private static final String PHP204 = "return204.php";
360     private static final String MYSQLDATEFORMAT="yyyy-MM-dd HH:mm:ss";
361     private static final String PHPSENDMAIL = "sendmail.php";
362     @Override
363     protected void onPreExecute() {
364         super.onPreExecute();
365         Toast.makeText(getActivity(),getString(R.string.P4_start), Toast.LENGTH_SHORT).show();
366     }
367
368     @Override
369     protected void onPostExecute(Boolean b) {
370         super.onPostExecute(b);
371         if (b) {
372             Toast.makeText(getActivity(), getString(R.string.

```

```

372 P4_OK, mToMember, mToFamily), Toast.LENGTH_LONG).show();
373     }
374     else {
375         Toast.makeText(getActivity(), getString(R.string.
P4_fail), Toast.LENGTH_LONG).show();
376     }
377 }
378
379     @Override
380     protected Boolean doInBackground(Void... voids) {
381         NetworkUtils mNetUtils = new NetworkUtils(getApplicationContext());
382         if (!test204()) {
383             return false;
384         }
385         HashMap<String, String> data = new HashMap<>();
386         data.put("idrecipe", mRecipe.getId().toString());
387         if ((mToFamily==null)|| (mToFamily.length()<5)) return
false;
388         data.put("family", mToFamily.trim());
389         if ((mToMember==null)|| (mToMember.length()<5)) return
false;
390         data.put("membre", mToMember.trim());
391         data.put("idfrom", mSession.getUser().getId().toString
());
392         if (mToMessage==null) return false;
393         data.put("message", mToMessage.trim());
394         String result = mNetUtils.sendPostRequestJson(mSession.
getURLPath() + PHPSENDMAIL, data);
395         if (result==null) return false;
396         if (!result.trim().equals("1")) {
397             return false;}
398         return true;
399     }
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             return false;
415         }
416     }
417 }
418 }
419
420 }

```

```
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 RecipeCommunityActivity extends SingleFragmentActivity {
8     public static Intent newIntent(Context packageContexte) {
9         Intent intent=new Intent(packageContexte,
10             RecipeCommunityActivity.class);
11         return intent;
12     }
13     @Override
14     protected Fragment createFragment() {
15         return RecipeCommunityFragment.newInstance();
16     }
17 }
```

```

1 package com.fdx.cookbook;
2
3 import android.content.DialogInterface;
4 import android.graphics.Bitmap;
5 import android.os.AsyncTask;
6 import android.os.Bundle;
7 import android.support.annotation.NonNull;
8 import android.support.v4.app.Fragment;
9 import android.support.v7.app.AlertDialog;
10 import android.support.v7.widget.GridLayoutManager;
11 import android.support.v7.widget.RecyclerView;
12 import android.util.DisplayMetrics;
13 import android.util.Log;
14 import android.view.LayoutInflater;
15 import android.view.Menu;
16 import android.view.MenuInflater;
17 import android.view.MenuItem;
18 import android.view.View;
19 import android.view.ViewGroup;
20 import android.widget.EditText;
21 import android.widget.ImageView;
22 import android.widget.LinearLayout;
23 import android.widget.TextView;
24 import android.widget.Toast;
25
26 import java.io.InputStream;
27 import java.net.HttpURLConnection;
28 import java.net.URL;
29 import java.text.DecimalFormat;
30 import java.util.HashMap;
31 import java.util.List;
32 import java.util.regex.Pattern;
33
34 public class RecipeCommunityFragment extends Fragment {
35     private RecyclerView mRecipeRecyclerView;
36     private RecipeAdapter mAdapter;
37     private SessionInfo mSession;
38     private static final Integer RECENT=1;
39     private static final Integer POPULAR=2;
40     private static final Integer BESTNOTE=3;
41     private Integer mSelectType;
42     private MenuItem mMenuR;
43     private MenuItem mMenuP;
44     private MenuItem mMenuN;
45     private CookBooksShort mCookbookShort;
46     private getShortRecipesFromCommunity getAsyncShorties;
47     private static final String TAG = "CB_ComFrag";
48     private static final String REGEX_FAMILY="[\u00d7{Punct}]\u00d7{w}\u00d7{p{
javaLowerCase}\u00d7{javaUpperCase}()\u00d7{Space}]*";
49
50     public static RecipeCommunityFragment newInstance() {
51         RecipeCommunityFragment fragment=new RecipeCommunityFragment
();
52         return fragment;
53     }
54
55     @Override

```

```

56     public void onCreate(Bundle savedInstanceState) {
57         super.onCreate(savedInstanceState);
58         setHasOptionsMenu(true);
59         mSession= SessionInfo.get(getActivity());
60         mCookbookShort=CookBooksShort.get(getActivity());
61         mSelectType=mCookbookShort.getSelectType();
62         if (mCookbookShort.isNew()){
63             getAsyncShorties=new getShortRecipesFromCommunity();
64             getAsyncShorties.execute(20);
65         }
66     }
67
68     @Override
69     public void onCreateOptionsMenu(Menu menu, MenuInflater inflater
) {
70         super.onCreateOptionsMenu(menu, inflater);
71         inflater.inflate(R.menu.fragment_menu_com, menu);
72         mMenuR = menu.findItem(R.id.com_recent);
73         mMenuN = menu.findItem(R.id.com_bestnote);
74         mMenuP = menu.findItem(R.id.com_popular);
75         mMenuR.setEnabled(mSelectType!=RECENT);
76         mMenuN.setEnabled(mSelectType!=BESTNOTE);
77         mMenuP.setEnabled(mSelectType!=POPULAR);
78     }
79
80     public boolean onOptionsItemSelected(MenuItem item) {
81         if (mCookbookShort.isDownloading()) return true;
82         switch (item.getItemId()) {
83             case R.id.com_recent:
84                 mCookbookShort.setSelectType(RECENT);
85                 break;
86             case R.id.com_popular:
87                 mCookbookShort.setSelectType(POPULAR);
88                 break;
89             case R.id.com_bestnote:
90                 mCookbookShort.setSelectType(BESTNOTE);
91                 break;
92             default:
93                 return super.onOptionsItemSelected(item);
94         }
95         mSelectType=mCookbookShort.getSelectType();
96         mMenuR.setEnabled(mSelectType!=RECENT);
97         mMenuN.setEnabled(mSelectType!=BESTNOTE);
98         mMenuP.setEnabled(mSelectType!=POPULAR);
99         getAsyncShorties=new getShortRecipesFromCommunity();
100        getAsyncShorties.execute(20);
101        return true;
102    }
103
104    @Override
105    public View onCreateView(LayoutInflater inflater, ViewGroup
container,
106                               Bundle savedInstanceState) {
107        View view = inflater.inflate(R.layout.
fragment_recipe_community, container, false);
108        mRecipeRecyclerView = (RecyclerView) view.findViewById(R.id.
recipe_recycler_view);

```

```

109         DisplayMetrics displayMetrics = new DisplayMetrics();
110         ((RecipeCommunityActivity) getContext()).get.WindowManager().
111             getDefaultDisplay().getMetrics(displayMetrics);
112         int ncol = (Integer) displayMetrics.widthPixels/300;
113         if (ncol<3) ncol=3;
114         mRecipeRecyclerView.setLayoutManager(new GridLayoutManager(
115             getActivity(),ncol));
116         updateUI();
117     }
118     @Override
119     public void onPause(){
120         super.onPause();
121     }
122     private void updateUI() {
123         List<Recipe> recipes=mCookbookShort.getRecipes();
124         if (mAdapter==null){
125             mAdapter=new RecipeCommunityFragment.RecipeAdapter(
126                 recipes);
127             mRecipeRecyclerView.setAdapter(mAdapter);
128         } else {
129             mAdapter.setRecipes(recipes);
130             mAdapter.notifyDataSetChanged();
131         }
132     }
133 // -----RECIPE HOLDER
134 -----
135     private class RecipeHolder extends RecyclerView.ViewHolder
136         implements View.OnClickListener {
137         private TextView mTitleTextView;
138         private TextView mName;
139         private TextView mFamily;
140         private ImageView mPhotoView;
141         private Recipe mRecipe;
142
143         public RecipeHolder(LayoutInflater inflater, ViewGroup parent
144 ) {
145             super(inflater.inflate(R.layout.list_item_grid, parent,
146 false));
147             itemView.setOnClickListener(this);
148             mTitleTextView= (TextView) itemView.findViewById(R.id.
149             com_title);
150             mName=(TextView) itemView.findViewById(R.id.com_name);
151             mFamily=(TextView) itemView.findViewById(R.id.com_family
152 );
153             mPhotoView=(ImageView) itemView.findViewById(R.id.
154             com_photo);
155             mPhotoView.setOnClickListener(new View.OnClickListener
156 () {
157                 @Override
158                 public void onClick(View v) {
159                     LinearLayout layout = new LinearLayout(getContext
160 ());
161                     layout.setOrientation(LinearLayout.VERTICAL);
162                     final TextView requestRecipeBox = new TextView(
163                         getContext());

```

```

154             requestRecipeBox.setText(" "+getString(R.string
155 .P5DT, mRecipe.getTitle()));
156             layout.addView(requestRecipeBox);
157             final TextView toRecipeBox = new TextView(
158             getContext());
159             toRecipeBox.setText(" "+getString(R.string.P5DN
160 , mRecipe.getOwner().getNameComplete()));
161             layout.addView(toRecipeBox);
162             final EditText messageBox = new EditText(
163             getContext());
164             messageBox.setHint(getString(R.string.P5DM));
165             layout.addView(messageBox);
166             AlertDialog.Builder builder = new AlertDialog.
167             Builder(getContext());
168             builder.setTitle(getString(R.string.P5DTT));
169             builder.setView(layout);
170             builder.setPositiveButton("OK", new
171             DialogInterface.OnClickListener() {
172                 @Override
173                 public void onClick(DialogInterface dialog,
174                     int which) {
175                     String id=mRecipe.getId().toString();
176                     String mToMessage = messageBox.getText().
177                     toString();
178                     Boolean b=(Pattern.matches(REGEX_FAMILY,
179                     mToMessage));
180                     if (b) {
181                         sendRequest sendrequest = new
182                         sendRequest();
183                         sendrequest.execute(id,mToMessage);
184                         deBugShow("Launch request :"+
185                         mToMessage+" / "+id);
186                     } else {
187                         Toast.makeText(getActivity(),
188                         getString(R.string.P5DMErr), Toast.LENGTH_SHORT).show();
189                     }
190                 });
191             builder.setNegativeButton("Cancel", new
192             DialogInterface.OnClickListener() {
193                 @Override
194                 public void onClick(DialogInterface dialog,
195                     int which) {
196                     dialog.cancel();
197                 });
198             builder.show();
199         });
200     }
201     public void bind(Recipe recipe){
202         mRecipe=recipe;
203         mTitleTextView.setText(mRecipe.getTitle());
204         mName.setText(mRecipe.getOwner().getName());
205         mFamily.setText("@"+mRecipe.getOwner().getFamily());
206         Bitmap bm=mRecipe.getImage();

```

```

197             if (bm!=null) mPhotoView.setImageBitmap(bm);
198             else mPhotoView.setImageDrawable(getResources().
199                 getDrawable(R.drawable.ic_recipe_see));
200
201         @Override
202         public void onClick(View v){      }
203     }
204     // -----ADAPTER
-----
205     private class RecipeAdapter extends RecyclerView.Adapter<
206     RecipeCommunityFragment.RecipeHolder> {
207         private List<Recipe> mRecipes;
208         public RecipeAdapter(List<Recipe> recipes){
209             mRecipes=recipes;
210         }
211
212         @NonNull
213         @Override
214         public RecipeCommunityFragment.RecipeHolder
215         onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {
216             LayoutInflater layoutInflater=LayoutInflater.from(
217                 getActivity());
218             return new RecipeCommunityFragment.RecipeHolder(
219                 layoutInflater, parent);
220         }
221
222         @Override
223         public void onBindViewHolder(@NonNull RecipeCommunityFragment
224             .RecipeHolder recipeHolder, int i) {
225             Recipe recipe=mRecipes.get(i);
226             recipeHolder.bind(recipe);
227         }
228
229         @Override
230         public int getItemCount() {
231             return mRecipes.size();
232         }
233
234         public void setRecipes(List<Recipe> recipes){
235             mRecipes=recipes;
236         }
237
238     class getShortRecipesFromCommunity extends AsyncTask<Integer,
239     Integer, Boolean> {
240         private static final String PHP204 = "return204.php";
241         private static final String PHPGETSHORTRECIPES = "
242             getcommunitynews.php";
243
244     *****
245             *
246             *          ASYNC
247             *
248     *****/
249
250     
```

```

241
242     @Override
243     protected void onPreExecute() {
244         super.onPreExecute();
245         mCookbookShort.getDLStarted();
246         mSelectType=mCookbookShort.getSelectType();
247     }
248
249     @Override
250     protected void onPostExecute(Boolean b) {
251         super.onPostExecute(b);
252         mCookbookShort.setDLCompleted();
253     }
254
255     @Override
256     protected Boolean doInBackground(Integer ... integers) {
257         Integer nDownload=integers[0];
258         if (!test204()) {deBugShow("204!"); return false;}
259         // download texts
260         String s=getStringRecipesFromServer(0,nDownload,
261             mSelectType, false);
262         if (s.equals("")) {deBugShow("Echec query 1"); return
263             false;}
264         if (!fillInitialTable(s)) {deBugShow("Echec parse >"+s+
265             "<"); return false;}
266         publishProgress(1);
267         // download photo i
268         for(Integer i=0;i<mCookbookShort.getsize();i++) {
269             if(isCancelled()) {deBugShow("Interrupted"); return
270                 false;}
271             s = getStringRecipesFromServer(i, 1, mSelectType,
272                 true);
273             if (s.equals("")) {
274                 deBugShow("Echec query "+i);
275                 break;
276             }
277             if (updatePhotoOfRecipe(s)) publishProgress(i+2);
278         }
279         return true;
280     }
281
282     @Override
283     protected void onProgressUpdate(Integer ... values){
284         updateUI();
285     }
286
287     private String getStringRecipesFromServer(Integer start,
288         Integer count, Integer type, Boolean withphoto){
289         HashMap<String, String> data = new HashMap<>();
290         data.put("iduser", mSession.getUser().getId().toString
291             ());
292         String comtype="";
293         if (type==RECENT) comtype="RECENT";
294         if (type==POPULAR) comtype="POPULAR";
295         if (type==BESTNOTE) comtype="BESTNOTE";
296         data.put("comtype", comtype);
297         DecimalFormat formatter = new DecimalFormat("00");

```

```

291         data.put("start", formatter.format( start));
292         data.put("count", formatter.format(count));
293         data.put("comparam", (withphoto ? "WP":"WOP"));
294         NetworkUtils mNetUtils = new NetworkUtils(getContext());
295         String result = mNetUtils.sendPostRequestJson(mSession.
getURLPath() + PHPGETSHORTRECIPES, data);
296         if (result==null) return "";
297         return result;
298     }
299
300     private boolean fillInitialTable(String s){
301         NetworkUtils mNetUtils = new NetworkUtils(getContext());
302         List<Recipe> recipes=mNetUtils.parseRecipesOfCommunity(s,
false);
303         if ((recipes!=null)&&(!recipes.isEmpty())){
304             mCookbookShort.clear();
305             mCookbookShort.fill(recipes);
306             return true;
307         } else return false;
308     }
309
310     private boolean updatePhotoOfRecipe(String s){
311         NetworkUtils mNetUtils = new NetworkUtils(getContext());
312         List<Recipe> recipes=mNetUtils.parseRecipesOfCommunity(s,
true);
313         if ((recipes!=null)&&(!recipes.isEmpty())){
314             mCookbookShort.updatePhoto(recipes.get(0));
315             return true;
316         } return false;
317     }
318
319
320     private Boolean test204() {
321         try {
322             URL url = new URL(mSession.getURLPath() + PHP204);
323             HttpURLConnection conn = (HttpURLConnection) url.
openConnection();
324             conn.setConnectTimeout(mSession.getConnectTimeout());
325             conn.setReadTimeout(mSession.getReadTimeout());
326             conn.setRequestMethod("HEAD");
327             InputStream in = conn.getInputStream();
328             int status = conn.getResponseCode();
329             in.close();
330             conn.disconnect();
331             return (status == HttpURLConnection.HTTP_NO_CONTENT);
332         } catch (Exception e) {
333             deBugShow("Test 204 : " + e);
334             return false;
335         }
336     }
337
338 }
339
340 ****
341     *
342     * ASYNC

```

```

341                                     *
342                                     ****
343                                     ****
344
345     class sendRequest extends AsyncTask<String, Void, Boolean> {
346         private static final String PHP204 = "return204.php";
347         private static final String PHPREQ = "newrequest.php";
348         private String mTo;
349         @Override
350         protected void onPreExecute() {
351             super.onPreExecute();
352         }
353
354         @Override
355         protected void onPostExecute(Boolean b) {
356             super.onPostExecute(b);
357             if (b) {
358                 Toast.makeText(getActivity(), getString(R.string.
P5DM0k), Toast.LENGTH_SHORT).show();
359             }
360             else {
361                 Toast.makeText(getActivity(), getString(R.string.
P4_fail), Toast.LENGTH_LONG).show();
362             }
363         }
364
365         @Override
366         protected Boolean doInBackground(String... strings) {
367             NetworkUtils mNetUtils = new NetworkUtils(getContext());
368             if (!test204()) {
369                 return false;
370             }
371             String message= strings[1];
372             String recipeid=strings[0];
373             String idfrom=mSession.getUser().getId().toString();
374             HashMap<String, String> data = new HashMap<>();
375             data.put("idrecipe", recipeid);
376             data.put("idfrom", idfrom);
377             data.put("message", message);
378             String result = mNetUtils.sendPostRequestJson(mSession.
getURLPath() + PHPREQ, data);
379             if (result.equals("1")) return true;
380             return false;
381         }
382
383         private Boolean test204() {
384             try {
385                 URL url = new URL(mSession.getURLPath() + PHP204);
386                 HttpURLConnection conn = (HttpURLConnection) url.
openConnection();
387                 conn.setConnectTimeout(mSession.getConnectTimeout());
388                 conn.setReadTimeout(mSession.getReadTimeout());
389                 conn.setRequestMethod("HEAD");
390                 InputStream in = conn.getInputStream();
391                 int status = conn.getResponseCode();
392                 in.close();

```

```
393         conn.disconnect();
394         return (status == HttpURLConnection.HTTP_NO_CONTENT);
395     } catch (Exception e) {
396         deBugShow("Test 204 : " + e);
397         return false;
398     }
399 }
400
401 }
402
403 private void deBugShow(String s){
404     //Log.d(TAG, s);
405 }
406
407 }
408
```

```
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     }
}
```

```

1 package com.fdx.cookbook;
2
3 import android.graphics.Bitmap;
4 import android.os.AsyncTask;
5 import android.os.Bundle;
6 import android.support.annotation.NonNull;
7 import android.support.v4.app.Fragment;
8 import android.support.v7.widget.LinearLayoutManager;
9 import android.support.v7.widget.RecyclerView;
10 import android.util.Log;
11 import android.view.LayoutInflater;
12 import android.view.View;
13 import android.view.ViewGroup;
14 import android.widget.ImageView;
15 import android.widget.TextView;
16 import android.widget.Toast;
17
18 import org.json.JSONArray;
19 import org.json.JSONObject;
20
21 import java.io.File;
22 import java.text.DecimalFormat;
23 import java.util.ArrayList;
24 import java.util.HashMap;
25 import java.util.List;
26
27 public class RecipeMailDisplayFragment extends Fragment {
28     private RecyclerView mRecipeRecyclerView;
29     private RecipeAdapter mAdapter;
30     private SessionInfo mSession;
31     private ArrayList<MailCard> mMailCards;
32     private static final String TAG = "CB_R.MailDisplayFrag";
33
34     public static RecipeMailDisplayFragment newInstance() {
35         RecipeMailDisplayFragment fragment=new
36         RecipeMailDisplayFragment();
37         return fragment;
38     }
39
40     @Override
41     public void onCreate(Bundle savedInstanceState) {
42         super.onCreate(savedInstanceState);
43         setHasOptionsMenu(true);
44         mSession= SessionInfo.get(getActivity());
45         mMailCards=new ArrayList<>();
46         List<Recipe> recipes =CookBook.get(getActivity()).getRecipes
47         ();
48         for (Recipe r:recipes){
49             if (r.IsMessage()) mMailCards.add(new MailCard(r));
50         }
51         getRequests gR=new getRequests();
52         gR.execute(0);
53     }
54     @Override
55     public View onCreateView(LayoutInflater inflater, ViewGroup
      container,

```

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

```

103         mMessage=(TextView) itemView.findViewById(R.id.
104             mail_display_message);
105         mFrom=(TextView) itemView.findViewById(R.id.
106             mail_display_author);
107         mDelete=(ImageView) itemView.findViewById(R.id.
108             mail_display_delete);
109         mAdd=(ImageView) itemView.findViewById(R.id.
110             mail_display_add);
111         mPhotoView=(ImageView) itemView.findViewById(R.id.
112             recipe_MD_photo);
113         mPhotoFile=CookBook.get(getActivity()).getPhotoFile(
114             mRecipe);
115         mDelete.setOnClickListener(new View.OnClickListener() {
116             @Override
117             public void onClick(View v) {
118                 if (mMailCard.isReceived()){
119                     deBugShow("Onclick del received"+mRecipe.
120                         getTitle());
121                     mRecipe.setStatus(StatusRecipe.Deleted);
122                     CookBook cookbook=CookBook.get(getActivity
123                         ());
124                     cookbook.updateRecipe(mRecipe);
125                     mMailCard.setRefused();
126                     updateUI();
127                 }
128             }
129         });
130         mAdd.setOnClickListener(new View.OnClickListener() {
131             @Override
132             public void onClick(View v) {
133                 if (mMailCard.isReceived()){
134                     deBugShow("Onclick add received"+mRecipe.
135                         getTitle());
136                     mRecipe.setStatus(StatusRecipe.Visible);
137                     CookBook cookbook=CookBook.get(getActivity
138                         ());
139                     cookbook.updateRecipe(mRecipe);
140                     mMailCard.setAccepted();
141                     mSession.setIsRecipeRequest(false);
142                     updateUI();
143                 }
144             }
145         });

```

```

146             uR.execute(mMailCard.getRequestId(), 0);
147         }
148     }
149 }
150 }
151 }
152
153     public void bind(MailCard mc){
154         mMailCard=mc;
155         CookBook cookbook=CookBook.get(getActivity());
156         mTitleTextView.setText(mc.getTitle());
157         mMessage.setText(mc.getMessage());
158         if (mc.isReceived()) mFrom.setText(getString(R.string.
P4MES_IN,mc.getUser().getNameComplete()));
159         if (mc.isRequest()) mFrom.setText(getString(R.string.
P4MES_OUT,mc.getUser().getNameComplete()));
160         mRecipe=cookbook.getRecipe(mc.getRecipeId());
161         if (mRecipe!=null) mPhotoFile=CookBook.get(getActivity
()).getPhotoFile(mRecipe);
162         if (mPhotoFile==null || !mPhotoFile.exists()){
163             mPhotoView.setImageDrawable(getResources().
getDrawable(R.drawable.ic_recipe_see));
164         } else {
165             Bitmap bitmap=PictureUtils.getScaledBitmap(mPhotoFile
.getPath(), getActivity());
166             mPhotoView.setImageBitmap(bitmap);
167         }
168     }
169     @Override
170     public void onClick(View v){      }
171 }
172 // -----ADAPTER
-----
173     private class RecipeAdapter extends RecyclerView.Adapter<
RecipeMailDisplayFragment.RecipeHolder> {
174         private List<MailCard> maMailCards;
175         public RecipeAdapter(List<MailCard> mailcards){
176             maMailCards=mailcards;
177         }
178
179         @NonNull
180         @Override
181         public RecipeMailDisplayFragment.RecipeHolder
onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {
182             LayoutInflator layoutInflater=LayoutInflator.from(
getActivity());
183             return new RecipeMailDisplayFragment.RecipeHolder(
layoutInflater, parent);
184         }
185
186         @Override
187         public void onBindViewHolder(@NonNull
RecipeMailDisplayFragment.RecipeHolder recipeHolder, int i) {
188             MailCard mc=maMailCards.get(i);
189             recipeHolder.bind(mc);
190         }
191

```

```

192     @Override
193     public int getItemCount() {
194         return maMailCards.size();
195     }
196
197     public void setRecipes(List<MailCard> mailcards){
198         maMailCards=mailcards;
199     }
200 }
201
202 /**
203 *          ASYNC
204 */
205
206 class getRequests extends AsyncTask<Integer, Integer, Boolean> {
207     private static final String PHPGETREQUESTS = "getrequests.php";
208
209     @Override
210     protected void onPreExecute() {
211         super.onPreExecute();
212     }
213
214     @Override
215     protected void onPostExecute(Boolean b) {
216         super.onPostExecute(b);
217         if (b) {
218             updateUI();
219         }
220     }
221
222     @Override
223     protected Boolean doInBackground(Integer ... integers) {
224         MailCard mc;
225         NetworkUtils netutil=new NetworkUtils(getApplicationContext());
226         if (!netutil.test204()) {deBugShow("204!"); return false;}
227         HashMap<String, String> data = new HashMap<>();
228         data.put("iduser", mSession.getUser().getId().toString());
229         String json = netutil.sendPostRequestJson(mSession.
230             getURLPath() + PHPGETREQUESTS, data);
231         if (json==null) return false;
232         if (json.equals("")) return false;
233         try {
234             JSONArray jarr1=new JSONArray(json);
235             for (int i=0; i<jarr1.length(); i++){
236                 JSONObject obj = jarr1.getJSONObject(i);
237                 mc=netutil.parseObjectRequest(obj);
238                 if (mc==null) {
239                     deBugShow("Error in parsing request");
240                     return false;
241                 }
242                 mMailCards.add(mc);
243             }
244         } catch (JSONException e) {
245             e.printStackTrace();
246         }
247     }
248 }

```

```

241             }
242         } catch (Exception e){
243             deBugShow("Failure in parsing JSON Array Requests "+e
244         );
245         return false;
246     }
247 }
248 }
249
250
/***** ASYNC *****/
251 *
252 *****
253
254     class updateRequest extends AsyncTask<Integer, Integer, Integer> {
255         private static final String PHPAORD = "acceptorrefuserequest.
256         php";
257
258         @Override
259         protected void onPreExecute() {
260             super.onPreExecute();
261         }
262
263         @Override
264         protected void onPostExecute(Integer[] result) {
265             super.onPostExecute(result);
266             String status=(result[1]==0 ? "ACCEPTED":"DENIED");
267             if (result[2]==1) {
268                 deBugShow("Succes mailcard "+ result[0]+" is "+
269                 status);
270                 updateUI();
271             } else {
272                 deBugShow("Echec mailcard "+ result[0]+" could not
273                 be "+status);
274             }
275
276         @Override
277         protected Integer[] doInBackground(Integer ... integers) {
278             Integer pknum=integers[0];
279             Integer j=integers[1];
280             String status=(j==0 ? "ACCEPTED":"DENIED");
281             Integer[] result={pknum,j,0};
282             MailCard mc=findMailCard(pknum);
283             if (mc==null) {deBugShow("Request "+pknum+" not found");
284             return result;}
285             NetworkUtils netutil=new NetworkUtils(getContext());
286             if (!netutil.test204()) {deBugShow(" request => 204!");
287             return result;}
288             HashMap<String, String> data = new HashMap<>();
289             DecimalFormat formatter = new DecimalFormat("#####");

```

```
287         data.put("pknum", formatter.format( pknum));
288         data.put("status", status);
289         data.put("iduser", mSession.getUser().getId().toString
());
290         data.put("message", mc.getMessage());
291         String json = netutil.sendPostRequestJson(mSession.
getURLPath() + PHPAORD, data);
292         if (json.equals("1")){
293             if (mMailCards.indexOf(mc)==-1){
294                 deBugShow("Can't find the card to be deleted");
295                 return result;
296             }
297             mMailCards.remove(mMailCards.indexOf(mc));
298             result[2]=1;
299         } else {
300             deBugShow("Request "+pknum+" to accept or deny did
not work");
301             return result;}
302         return result;
303     }
304 }
305
306 private MailCard findMailCard(Integer i){
307     for(MailCard m:mMailCards){
308         if (m.getRequestId()==i) return m;
309     }
310     return null;
311 }
312
313 private void deBugShow(String s){
314     //Log.d(TAG, s);
315 }
316
317 }
318 }
```