



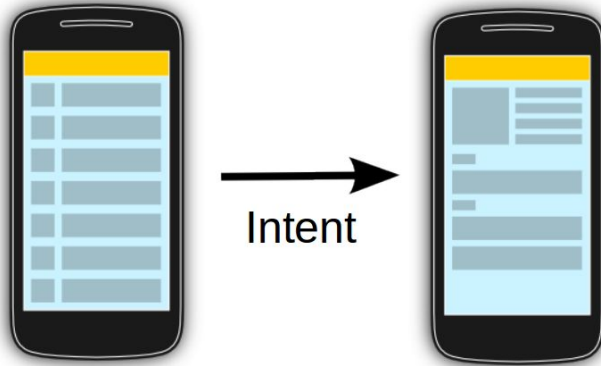
Présentation

Implicit Intents - Android

Par Délia Garbarini



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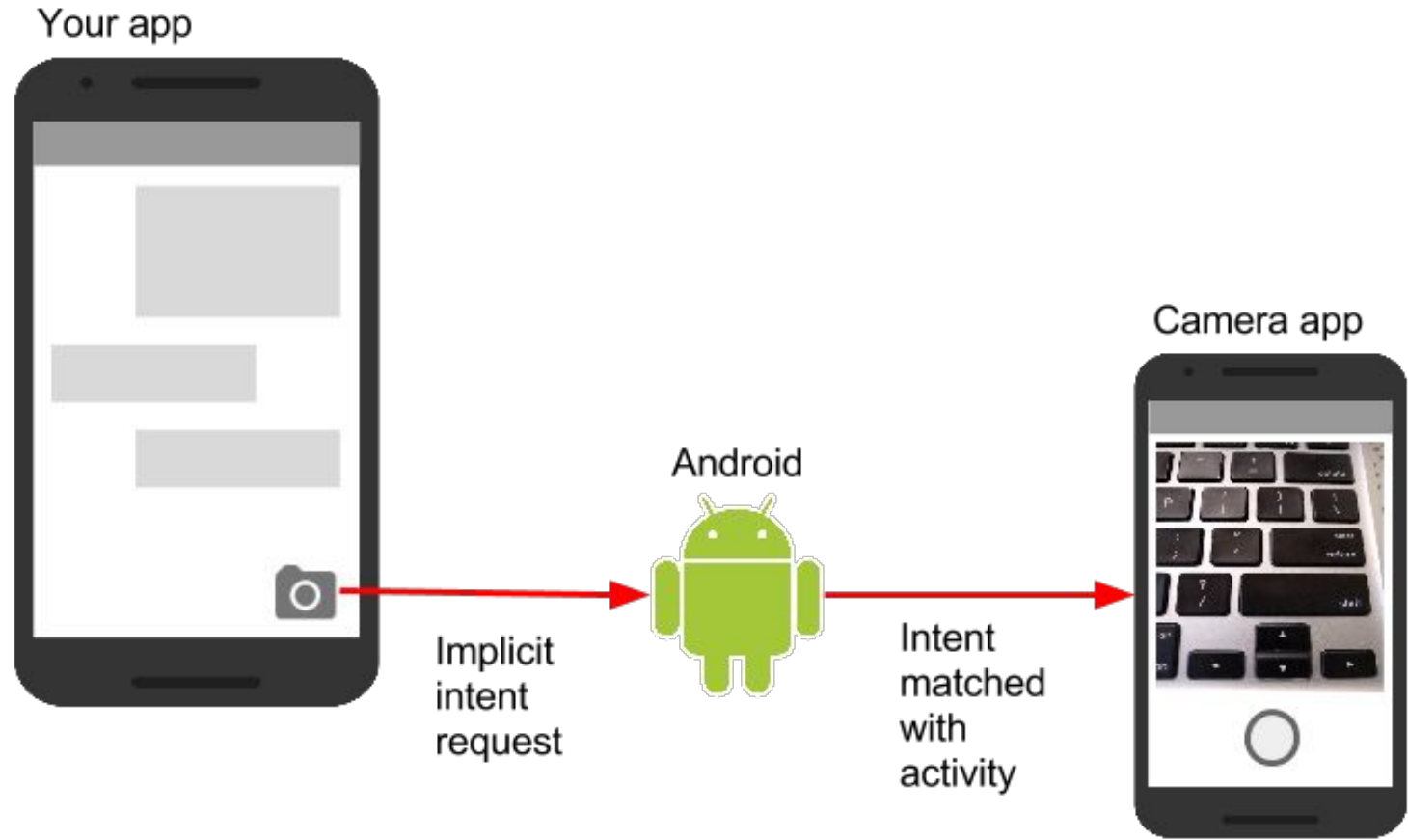


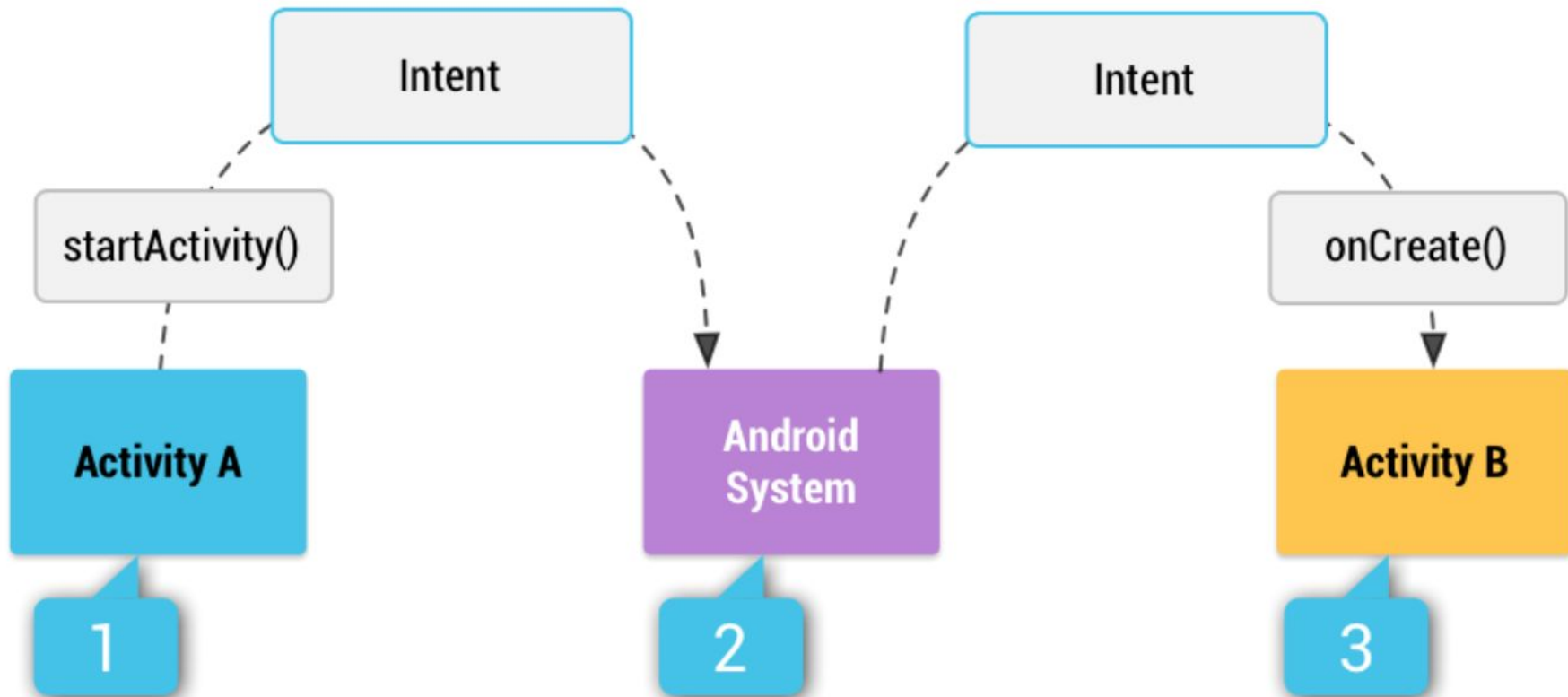
- 1) Qu'est-ce-qu'un Intent ?
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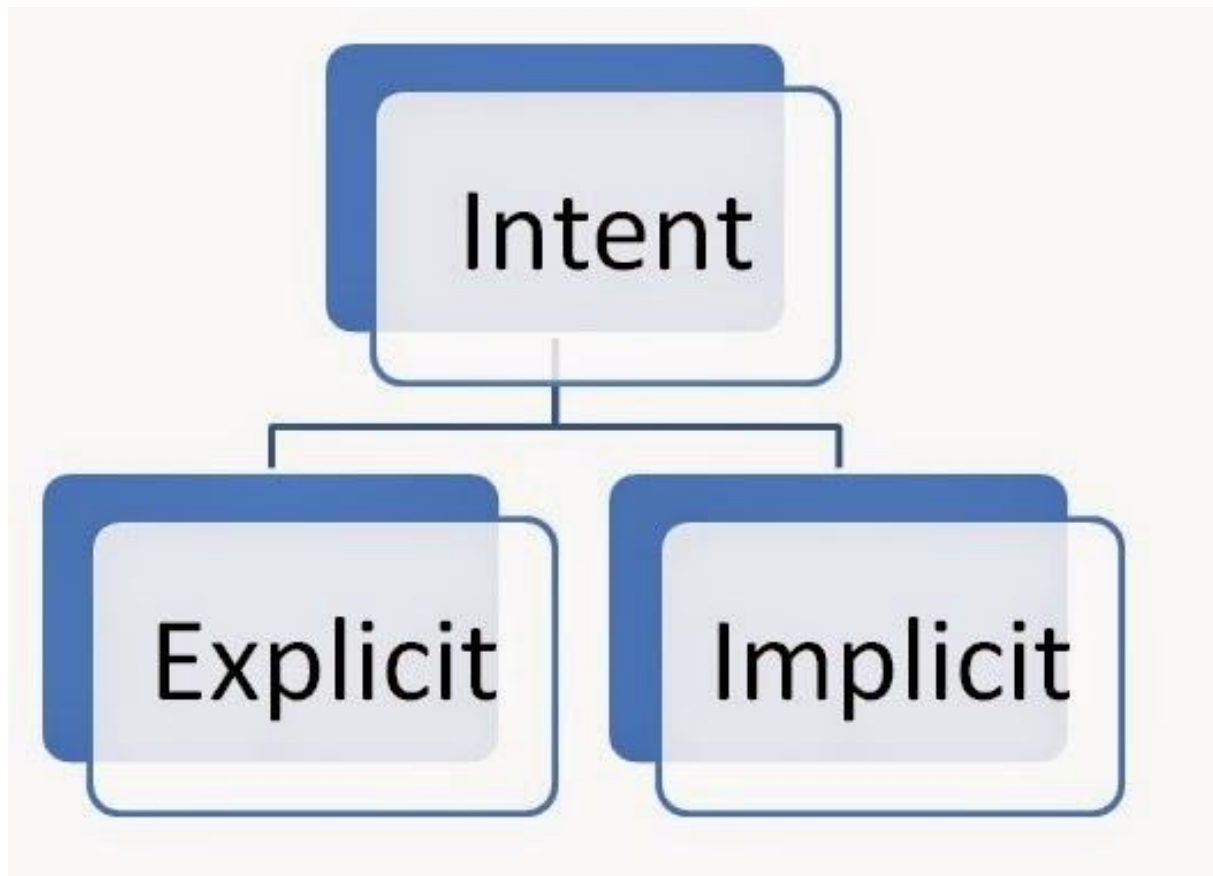
The slide features a decorative border with a repeating orange and white geometric pattern of triangles and lines. The central content is on a white background.

1) Qu'est-ce qu'un intent ?

a) Définition









B) Construction d'un intent

- Nom du composant (facultatif)
- Action
 - Action_View
 - Action_Send
- Donnée : Uri
 - setData()
- Extra
 - Extra_Email
 - Extra_Subject
- Placer la création de l'intent dans le onClick()

The slide features a decorative border made of orange triangles with white outlines, arranged in a repeating pattern around the central text area.

2) Implicit Intent ?

a) Définition



Browser



Chrome

**Ouvrir un lien dans
un navigateur**



Opera Mini

:



Twitter

B) Création / code

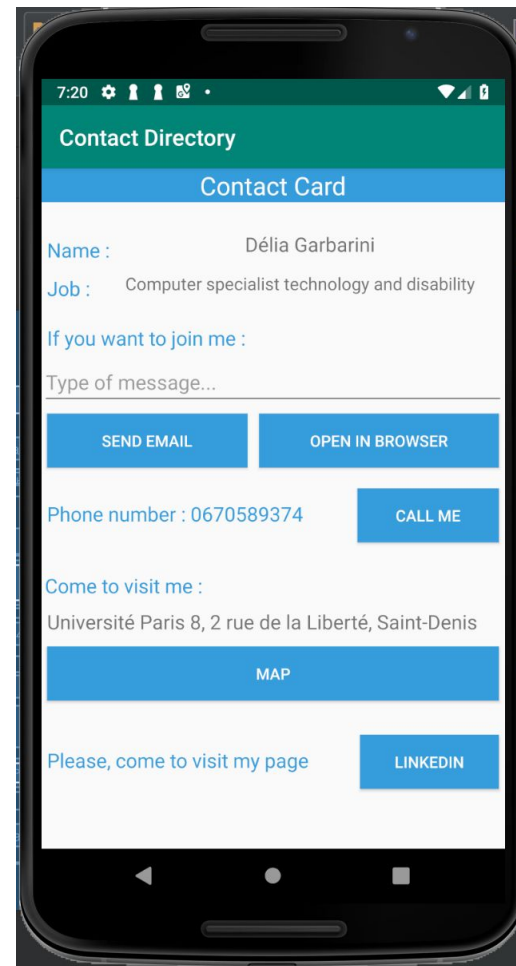
Explicit :

```
if (v.getId()==R.id.B4Info) {  
    Intent intent = new Intent( packageContext: this, Main2Activity.class);  
    startActivity(intent);  
}
```

Implicit :

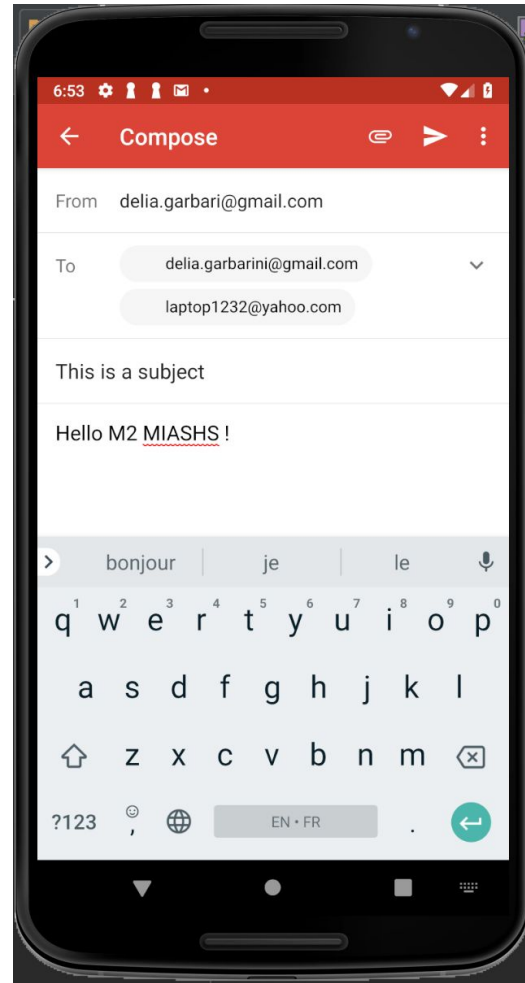
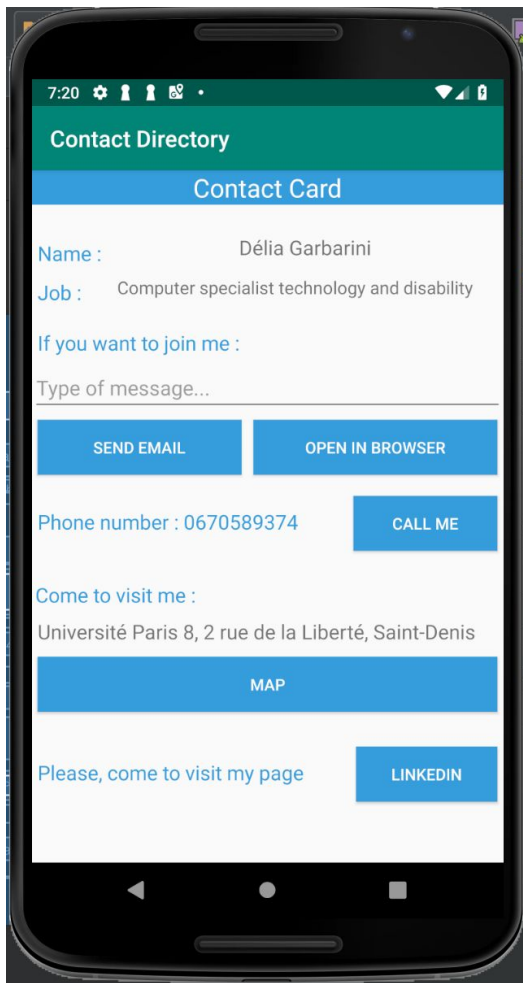
```
Intent sendIntent = new Intent();  
sendIntent.setAction(Intent.ACTION_SEND);  
sendIntent.putExtra(Intent.EXTRA_TEXT, textMessage);  
sendIntent.setType("text/plain");
```

Réalisation de cette application :



C.i) Exemple : envoyer un mail

- Ecrire un message
- Envoyer ce message par mail
- Renseigner dans le mail plusieurs champs



If you want to join me :

Type of message...

SEND EMAIL

OPEN IN BROWSER

1

```
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);

    editText = (EditText) findViewById(R.id.editText);

    Button B1=findViewById(R.id.B1SendEmail);
    B1.setOnClickListener(this);

    Button B2=findViewById(R.id.B2openBrowser);
    B2.setOnClickListener(this);

    Button B3=findViewById(R.id.B3CallMe);
    B3.setOnClickListener(this);

    Button B4=findViewById(R.id.B4Map);
    B4.setOnClickListener(this);

    Button B5=findViewById(R.id.B5In);
    B5.setOnClickListener(this);
}
```

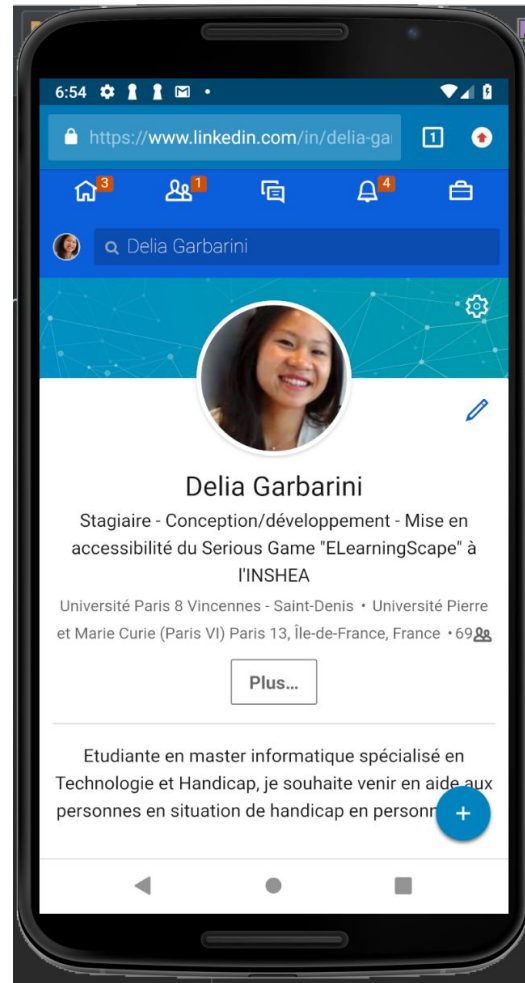
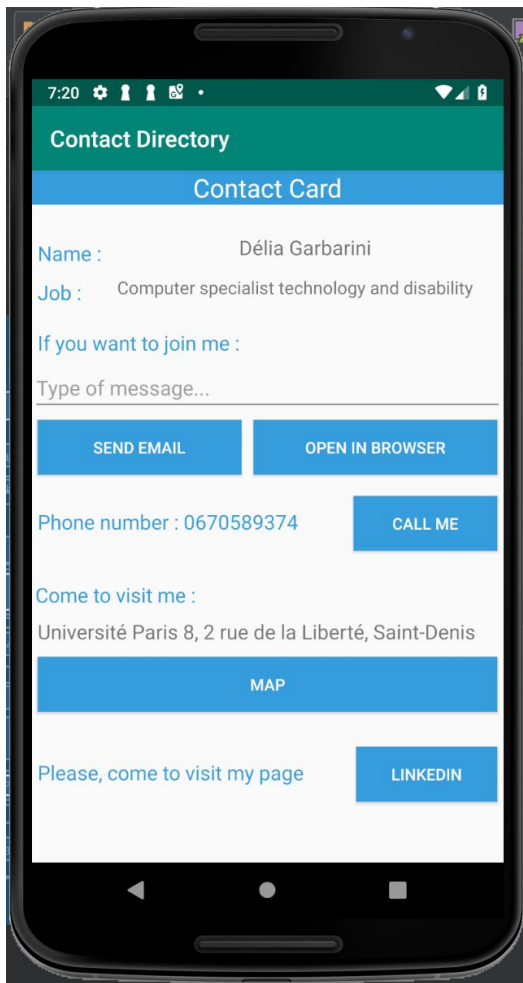
2

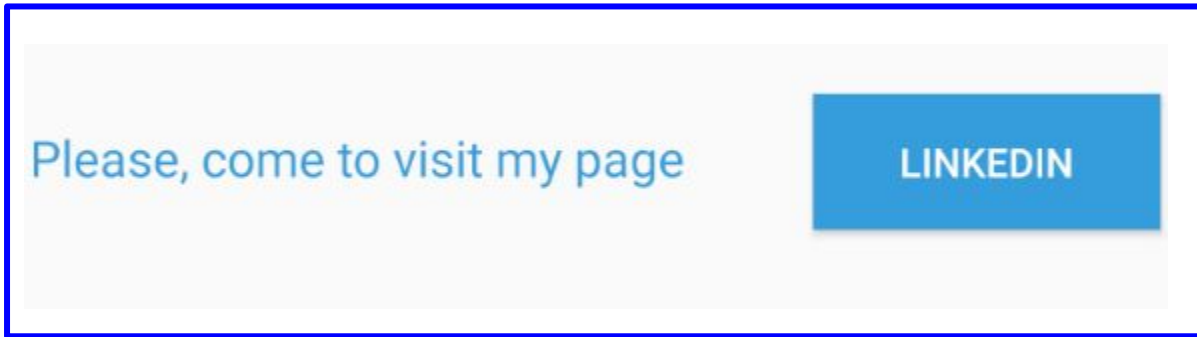
```
public void onClick(View v) {
    if (v.getId()==R.id.B1SendEmail) {
        Intent i = new Intent (Intent.ACTION_SEND);
        i.setType("text/plain");
        String[] array = {"delia.garbarini@gmail.com","laptop1232@yahoo.com"};
        i.putExtra(Intent.EXTRA_EMAIL, array);
        i.putExtra(Intent.EXTRA_SUBJECT, value: "This is a subject");
        String message = editText.getText().toString();
        i.putExtra(Intent.EXTRA_TEXT,message);
        if (i.resolveActivity(getPackageManager()) !=null) {
            startActivity(i);
        }
    }

    if (v.getId()==R.id.B2openBrowser) {
        Intent i = new Intent ();
        i.setAction(Intent.ACTION_VIEW);
        i.setData(Uri.parse("http://www.yahoo.com"));
        if (i.resolveActivity(getPackageManager()) !=null) {
            startActivity(i);
        }
    }
}
```

C.ii) Exemple : ouvrir un navigateur

- Open Browser
- Ouvrir un page LinkedIn





1

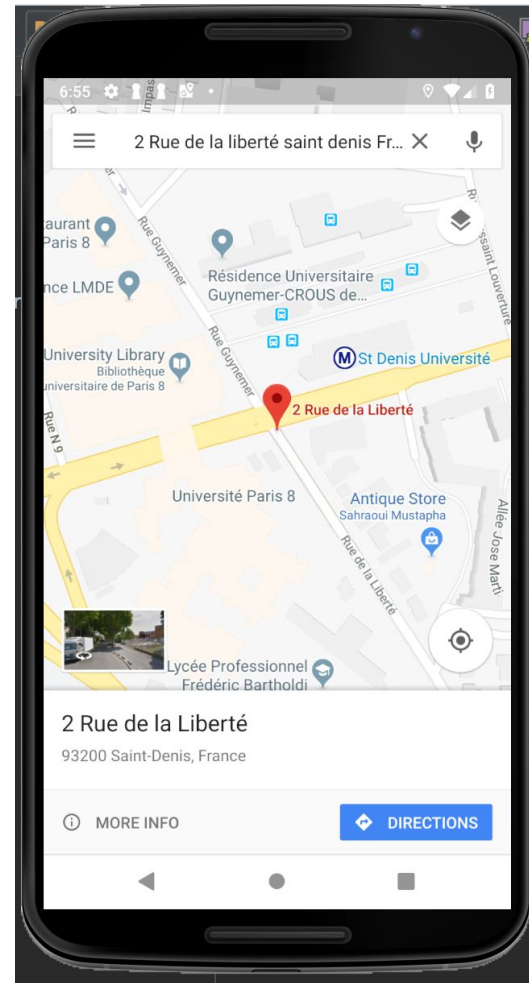
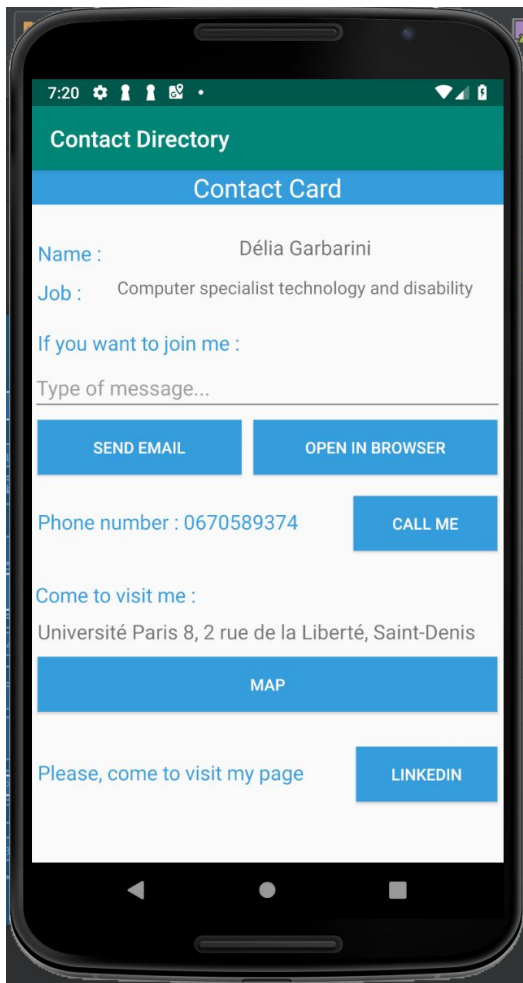
```
Button B5=findViewById(R.id.B5In);  
B5.setOnClickListener(this);
```

2

```
if (v.getId()==R.id.B5In) {  
    Uri webpage = Uri.parse("http://www.linkedin.com/in/delia-garbarini-51b316b2/");  
    Intent webIntent = new Intent(Intent.ACTION_VIEW, webpage);  
  
    startActivity(webIntent);  
}
```

C.iii) Exemple : ouvrir une map

- Cliquer sur une adresse
- Voir l'adresse sur une carte



Come to visit me :

Université Paris 8, 2 rue de la Liberté, Saint-Denis

MAP

1

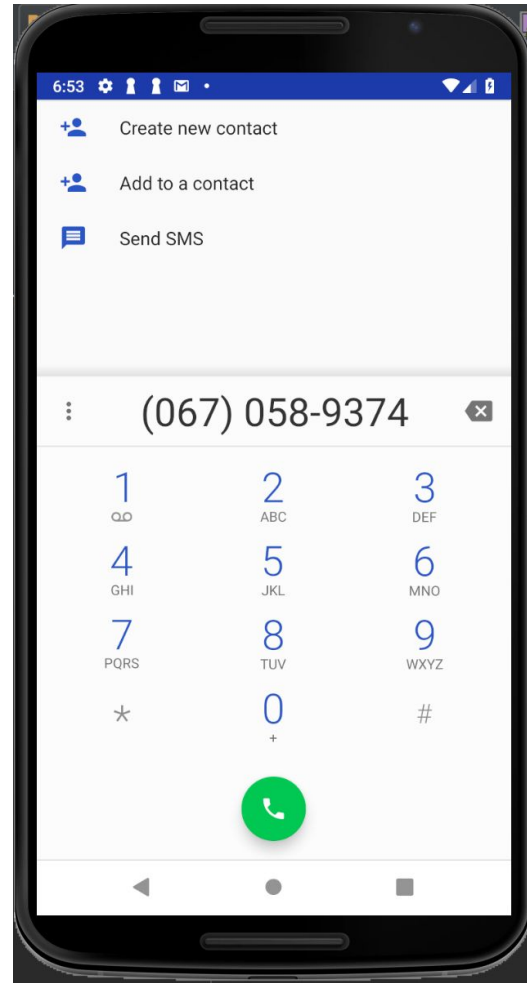
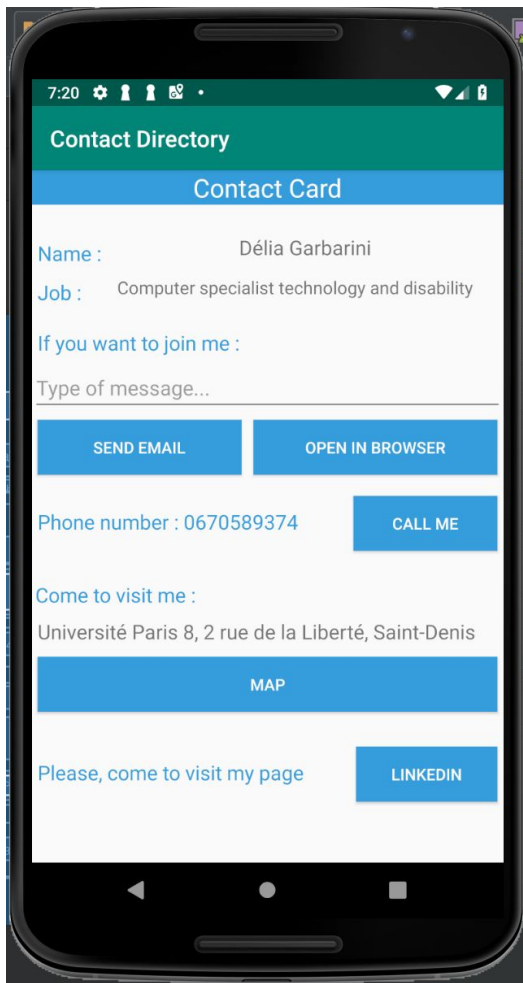
```
Button B4=findViewById(R.id.B4Map);  
B4.setOnClickListener(this);
```

2

```
if (v.getId() ==R.id.B4Map) {  
    // Build the intent  
    Uri location = Uri.parse("geo:0,0?q=2+Rue+de+la+Liberté+saint+denis+France");  
    Intent mapIntent = new Intent(Intent.ACTION_VIEW, location);  
  
    // Verify it resolves  
    PackageManager packageManager = getPackageManager();  
    List<ResolveInfo> activities = packageManager.queryIntentActivities(mapIntent, flags: 0);  
    boolean isIntentSafe = activities.size() > 0;  
  
    // Start an activity if it's safe  
    if (isIntentSafe) {  
        startActivity(mapIntent);  
    }  
}
```

C.iv) Exemple : appeler un numéro

- Cliquer sur un bouton appeler
- L'application s'ouvre avec le numéro déjà entré



Phone number : 0670589374

CALL ME

1

```
Button B3=findViewById(R.id.B3CallMe);  
B3.setOnClickListener(this);
```

2

```
if (v.getId()==R.id.B3CallMe) {  
  
    Uri number = Uri.parse("tel:0670589374");  
    Intent i = new Intent(Intent.ACTION_DIAL, number);  
  
    startActivity(i);  
}
```



Présentation

Implicit Intents - Android

Merci de votre attention

Par Délia Garbarini



Sources

1. (Part 2) Android Implicit Intents Tutorial :

https://www.youtube.com/watch?v=sEBQrnieYfo&t=0s&index=4&list=LLjxWG_YwzuMPKmRr7kdLFyQ

2. Intents and Intent filters :

<https://developer.android.com/guide/components/intents-filters>

3. Intent : <https://developer.android.com/reference/android/content/Intent>

4. Common Intent : <https://developer.android.com/guide/components/intents-common>

5. Android - Cours/TP 4 - Intents : <http://chezdom.net/etu/android-courstp-4-intents/>

6. Package Manager :

<https://developer.android.com/reference/android/content/pm/PackageManager>