

Using Firebase Storage



Simone Alessandria

TRAINER, AUTHOR AND PROUD CODER

@simon_ales www.softwarehouse.it



Overview



Firebase Storage

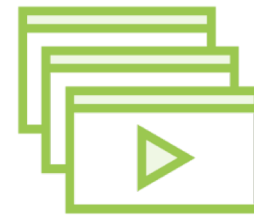
Implementing Storage in Your App

Uploading and Downloading Files

Setting Firebase Storage Rules



Firebase Storage



Firestore Storage Features



If you loose connectivity upload and download will resume



Firestore Authentication and security rules



Scalable



Uploading a File to Firebase Storage

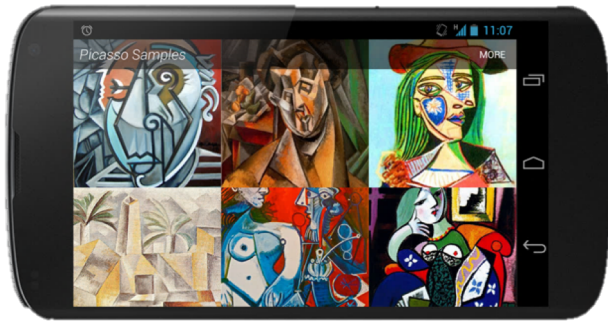
```
Uri file = data.getData();
```

```
StorageReference ref =  
storageRef.child("images/"+file.getLastPathSegment());
```

```
UploadTask uploadTask = ref.putFile(file);
```



Picasso Library



```
Picasso.with(context).load(url)  
    .into(imageView);
```

Lightweight

Handling ImageView recycling

Complex image transformations with
minimal memory use

Automatic memory and disk caching

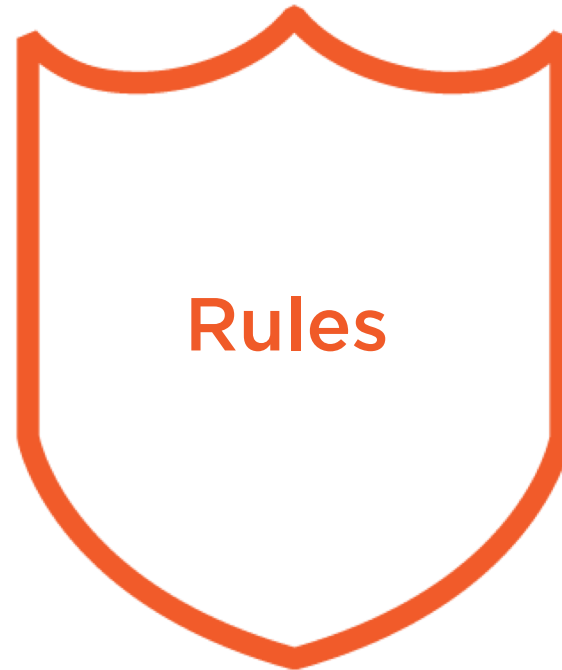
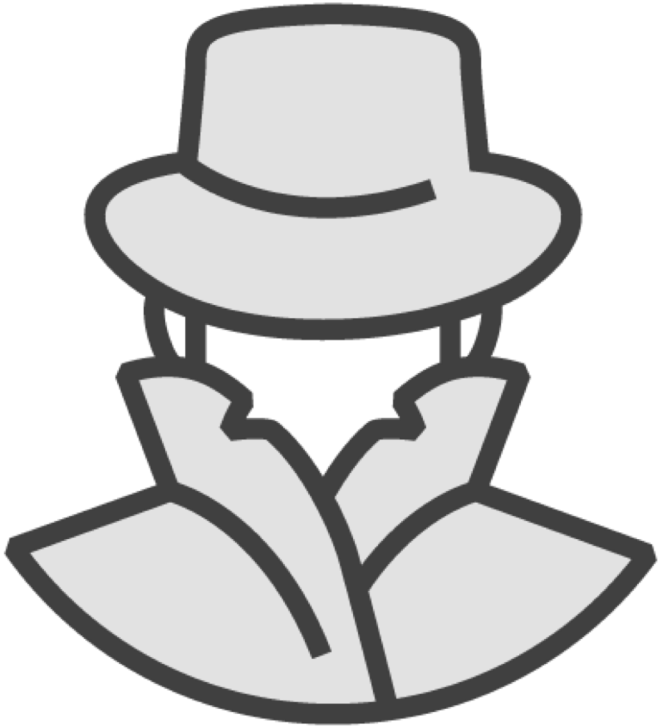


Deleting a File from Firebase Storage

```
StorageReference ref =  
FirebaseUtil.mStorageRef.child(fileName);  
picRef.delete();
```



Security for Storage



Firestore Storage Rules

```
service firebase.storage {  
  match /b/{bucket}/o {  
    match /{allPaths=**} {  
      allow read, write: if true;  
    }  
  }  
}
```



Firebase Storage Rules

```
service firebase.storage {  
  match /b/{bucket}/o {  
    match /deals_images/rome.jpg {  
      allow read, write: if true;  
    }  
  }  
}
```



Firestore Storage Rules

```
service firebase.storage {  
  match /b/{bucket}/o {  
    match /{firstLevel} {  
      allow read, write: if true;  
    }  
  }  
}
```



Firestore Storage Rules

```
service firebase.storage {  
  match /b/{bucket}/o {  
    match /{firstLevel} {  
      allow read, write: if false;  
    }  
  }  
}
```



Firestore Storage Rules

```
service firebase.storage {  
  match /b/{bucket}/o {  
    match /{firstLevel} {  
      allow read, write: if request.Auth != null;  
    }  
  }  
}
```



Request

request.auth

request.resource

request.time

Resource

resource.name

resource.size

resource.timeCreated

resource.contentType

contentLanguage

...



Firestore Storage Rules

```
service firebase.storage {  
  match /b/{bucket}/o {  
    match /{firstLevel} {  
      allow read, write: if request.Auth != null;  
    }  
  }  
}
```



Summary



Firestore

Firebase Storage

Creating Folders

Adding and Deleting Files

Storage Rules

- Match
- Allow
- Request
- Resource

