Version <1.1>

Revision History

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| <30/11/2022> | <1.0> | Initial version | Vo Duy Truong |
| 14/12/2022 | 1.1 | Update section 4, add section 5, 6 | Vo Duy Truong |
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Table of Contents

1. Introduction 4

2. Architectural Goals and Constraints 4

3. Use-Case Model 5

4. Logical View 5

4.1 Component: Activity 5

4.2 Component: Intent 6

4.3 Componet: Broadcast services 6

4.4 Component: Manifest 6

4.5 Component: Resource 7

4.6 Component: Context 7

4.7 Component: Model 7

4.8 Component: Adapter 7

4.9 Component: Firebase 8

5. Deployment 8

6. Implementation View 8

# Introduction

- This document include Architectural Goals and Constraints, Use-case model, Logical view (9 components), Deployment, Implementation view.

# Architectural Goals and Constraints

- Use AI to filter video.

- Programing language is java.

- Application environment is mobile.

- Apply the filters to camera.

- Optimize query result when searching.

- Apply a edit video system.

- Mention another user on the desciption of a video or comment.

# Use-Case Model

Diagram

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# Logical View

## Component: Activity

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Description automatically generated - An *activity* is the entry point for interacting with the user. It represents a single screen with a user interface.

## Component: Intent

- An intent is created with an Intent object, which defines a message to activate either a specific component (explicit intent) or a specific type of component (implicit intent).

- For activities and services, an intent defines the action to perform (for example, to view or send something) and may specify the URI of the data to act on, among other things that the component being started might need to know.

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## Componet: Broadcast services

- A service is a general-purpose entry point for keeping an app running in the background for all kinds of reasons. It is a component that runs in the background to perform long-running operations or to perform work for remote processes. A service does not provide a user interface.Diagram

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## Component: Manifest

- Before the Android system can start an app component, the system must know that the component exists by reading the app's manifest file, AndroidManifest.xml. Your app must declare all its components in this file, which must be at the root of the app project directory.

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## Component: Resource

- An Android app is composed of more than just code—it requires resources that are separate from the source code, such as images, audio files, and anything relating to the visual presentation of the app. For example, you can define animations, menus, styles, colors, and the layout of activity user interfaces with XML files. Using app resources makes it easy to update various characteristics of your app without modifying code. Providing sets of alternative resources enables you to optimize your app for a variety of device configurations, such as different languages and screen sizes.

Diagram

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## Component: Context

- It allows us to access resources.

- It allows us to interact with other Android components by sending messages.

Diagram

Description automatically generated- It gives you information about your app environment.

## Component: Model

- It is classes which help to create an object to interact with database such as video, comment, user…

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## Component: Adapter

- An Adapter object acts as a bridge between an AdapterView and the underlying data for that view. The Adapter provides access to the data items. The Adapter is also responsible for making a View for each item in the data set.

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## Component: Firebase

- It is a platform supporting to develop android app. In our app, we use some products of firebase such as cloud firestore, cloud storage, authentication, and real-time database.

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# Deployment

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# Implementation View

- Android view:

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- Project view:

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