Software Component Design

Visio

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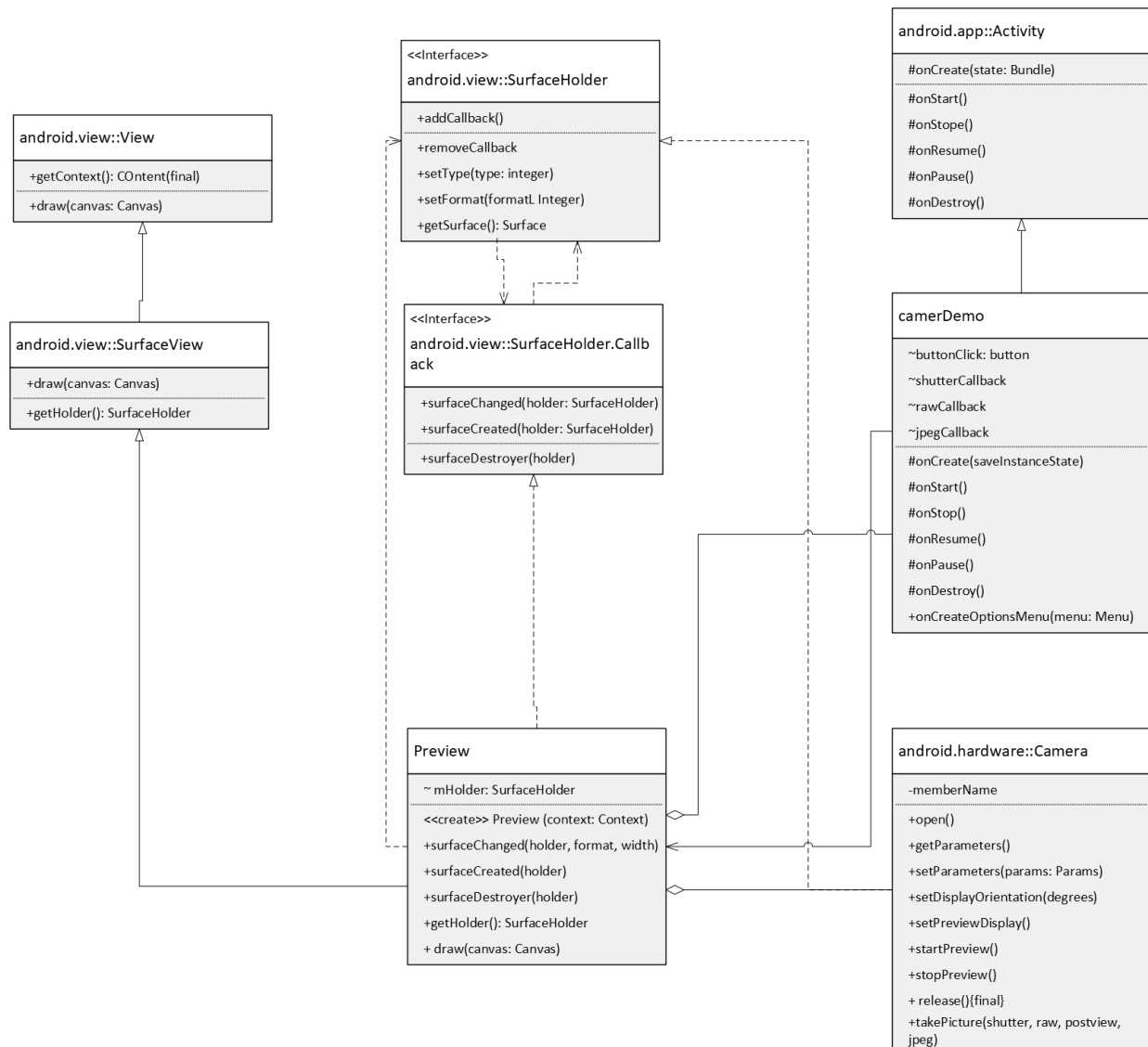Yordanos Yirgu   Id: 1374/13

Introduction

Microsoft Visio is a diagramming and vector graphics application designed to help users visualize, document, and communicate complex information. It allows you to create a wide variety of diagrams, such as flowcharts, organizational charts, network diagrams, floor plans, process maps, and more.

Visio is known for its intuitive drag-and-drop interface, customizable shapes, and integration with other Microsoft Office applications like Word and Excel. It is often used in fields like business, engineering, IT, and project management to design workflows, illustrate systems, and analyze data. Visio is available in both desktop and online versions, with templates and tools for various industries.
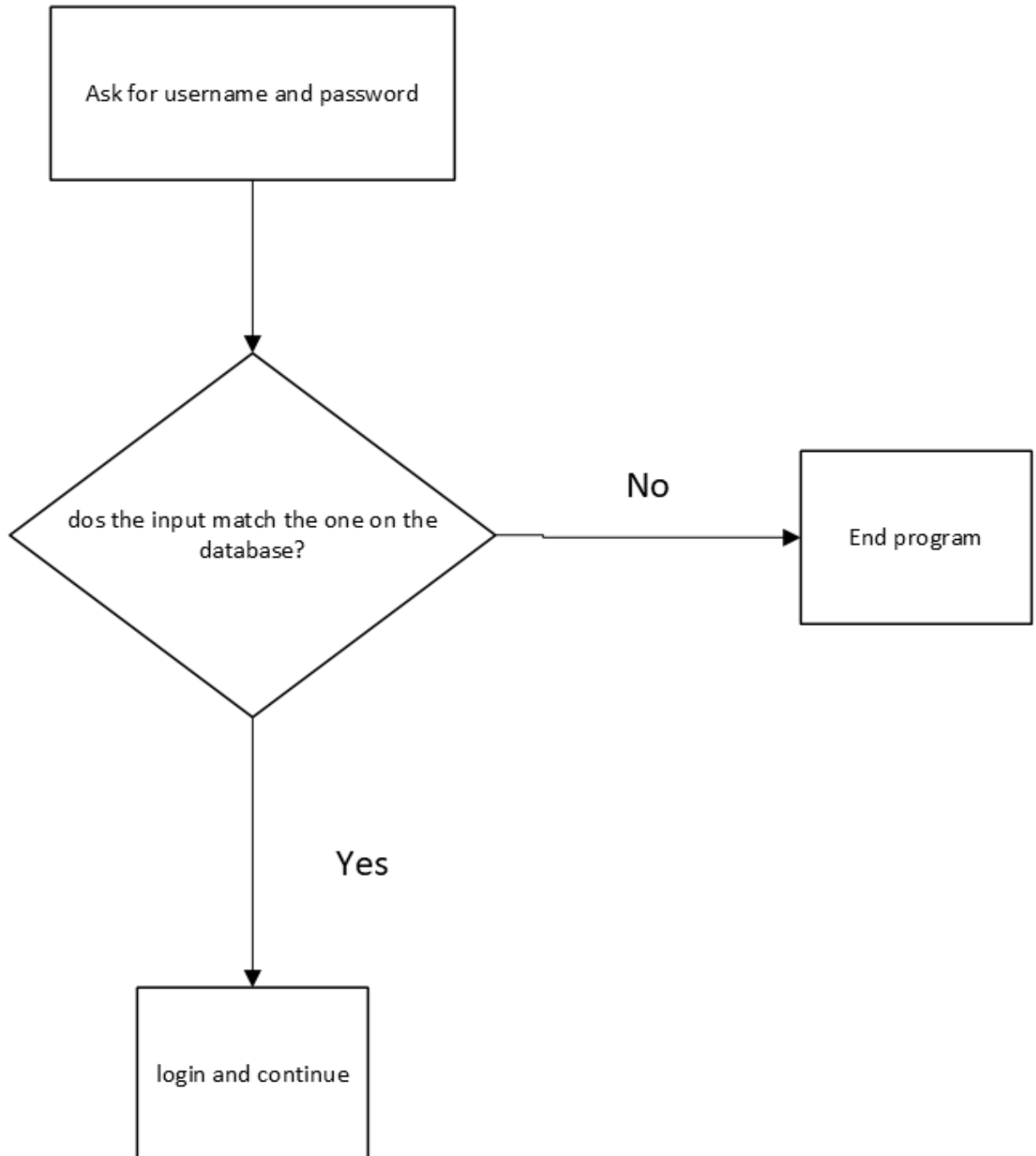
Projects

File: [The visio file here](#)

Diagram A

android.view::View

+getContext(): COntent(final)

+draw(canvas: Canvas)

<<Interface>>
android.view::SurfaceHolder

+addCallback()

+removeCallback

+setType(type: integer)

+setFormat(formatL Integer)

+getSurface(): Surface

---

android.app::Activity

#onCreate(state: Bundle)

#onStart()

#onStope()

#onResume()

#onPause()

#onDestroy()

---

android.view::SurfaceView

+draw(canvas: Canvas)

+getHolder(): SurfaceHolder

<<Interface>>
android.view::SurfaceHolder.Callback

+surfaceChanged(holder: SurfaceHolder)

+surfaceCreated(holder: SurfaceHolder)

+surfaceDestroyer(holder)

---

camerDemo

~buttonClick: button

~shutterCallback

~rawCallback

~jpegCallback

#onCreate(saveInstanceState)

#onStart()

#onStop()

#onResume()

#onPause()

#onDestroy()

+onCreateOptionsMenu(menu: Menu)

Preview

~ mHolder: SurfaceHolder

<<create>> Preview (context: Context)

+surfaceChanged(holder, format, width)

+surfaceCreated(holder)

+surfaceDestroyer(holder)

+getHolder(): SurfaceHolder

+ draw(canvas: Canvas)

---

android.hardware::Camera

-memberName

+open()

+getParameters()

+setParameters(params: Params)

+setDisplayOrientation(degrees)

+setPreviewDisplay()

+startPreview()

+stopPreview()

+ release(){final}

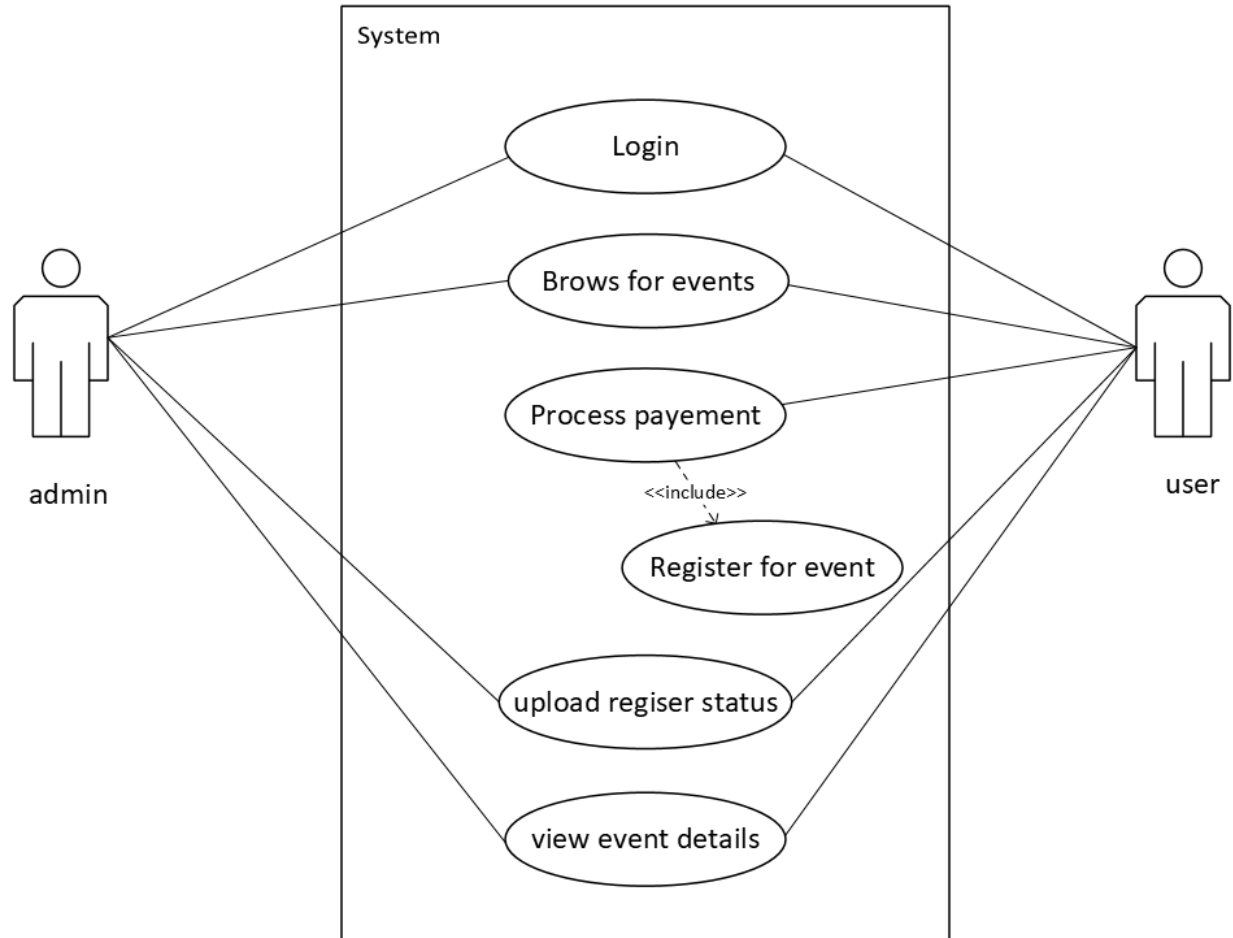+takePicture(shutter, raw, postview, jpeg)

This example is an implementation level **class diagram** which shows some classes using Android Camera API (Android 3.1 Platform, API Level 12). The **Camera** class is Android hardware class used to get/create objects of the Camera class, set image capture settings, start or stop preview, take pictures, etc. Camera class is not thread-safe, and should be used from a single event thread. This class is a client for the Camera service, which manages the actual camera hardware.
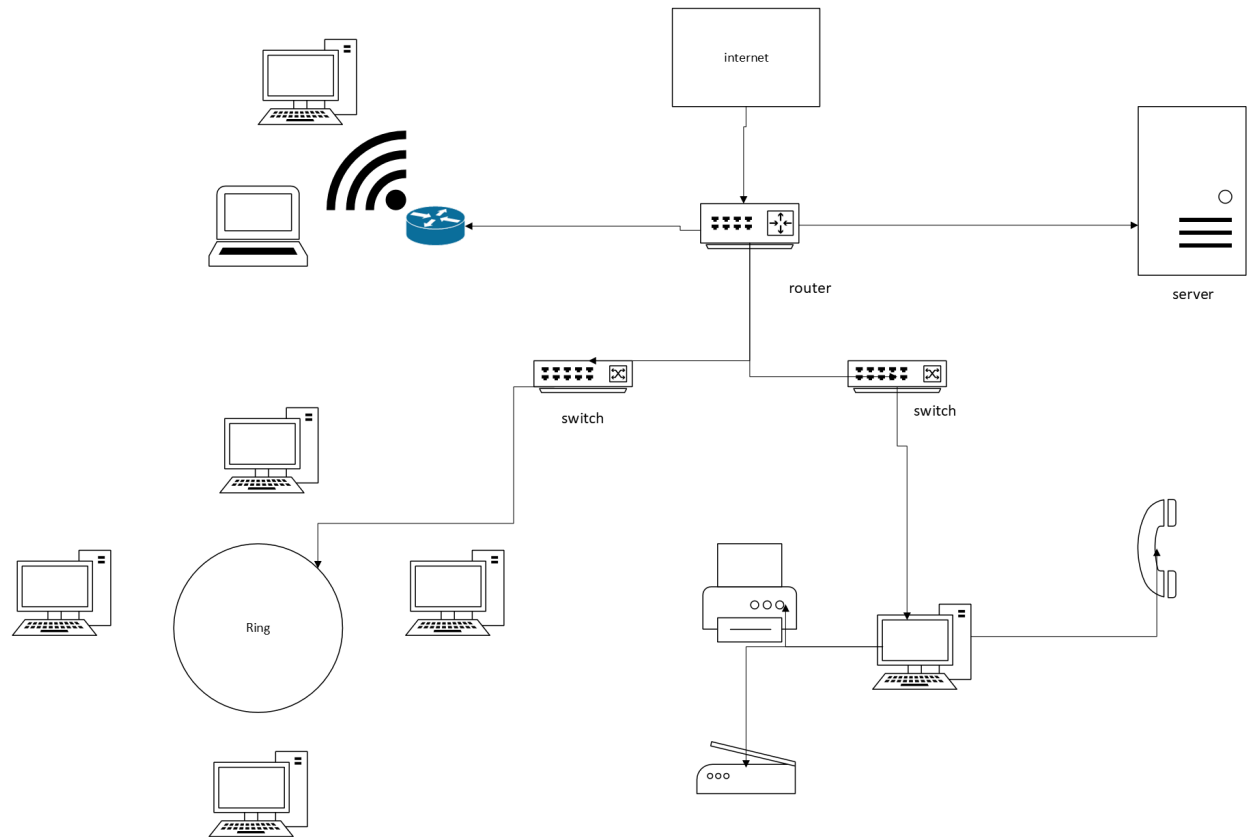
Diagram B

Ask for username and password

dos the input match the one on the database?

No

End program

Yes

login and continue

This example is a simple implementation of a Flow diagram for a password verification process.

Diagram C

System

- Login
- Brows for events
- Process payement
  - <<include>>
- Register for event
- upload regiser status
- view event details

admin

user

This is an example of a social media platform that is focused on providing a simple way of looking up, tracking, uploading and managing social events. In short this diagram is for a event management social media system.

Diagram D

This drawing depicts the network topology of the sample web studio. This is a physical type of network diagram. It depicts the network, end-user equipment and connections between them. The given network has combined the both star and mesh network topology features.