Configure the SDK

The configuration process of the SDK has severable responsibilities:

- Validation of the license key
- Validating the currently present files
- Downloading or updating the files required by the SDK to do recognition
- Preparing the files to be used for inference

SDK Configure

- **useEffect**: Runs the **configure** function once when the component mounts (because of the empty dependency array []).
- PassioSDK.configure: Calls the Passio SDK configuration method with a key and options (debugMode, autoUpdate).
 - o If the SDK is ready (status.mode === 'isReadyForDetection'),
 loadingState is updated to 'ready'.
 - o If there's an error (status.mode === 'error'), the state is set to 'error'.
 - If the status is 'notReady', nothing is done.
- **Error handling**: If any error occurs during the configuration, the catch block sets the loadingState to 'error'.

```
export type SDKStatus = 'init' | 'downloading' | 'error' | 'ready'
const [sdkStatus, setSDKStatus] = useState<SDKStatus>('init')
 useEffect(() => {
   async function configure() {
        const status = await PassioSDK.configure({
          key: "Your Passio Key",
          debugMode: false,
          autoUpdate: true,
        })
        switch (status.mode) {
          case 'notReady':
            return
          case 'isReadyForDetection':
            setSDKStatus('ready')
            return
          case 'error':
            console.error(`PassioSDK Error ${status.errorMessage}`)
            setSDKStatus('error')
            return
        7
      } catch (err) {
        console.error(`PassioSDK Error ${err}`)
        setSDKStatus('error')
      3
   configure()
 }, [])
```

Track the progress of downloading Passio SDK model files

This is a method (from the Passio SDK) that registers callbacks for events related to model downloading: completedDownloadingFile: This callback is triggered when a file finishes downloading. The object passed to it contains filesLeft, which represents how many files are still left to download.

```
const [leftFile, setDownloadingLeft] = useState<number | null>(null)

useEffect(() => {
    const callBacks = PassioSDK.onDownloadingPassioModelCallBacks({
        completedDownloadingFile: ({ filesLeft }: CompletedDownloadingFile)
            setDownloadingLeft(filesLeft)
        },
        downloadingError: ({ message }: DownloadingError) => {
            console.log('DownloadingError ===>', message)
        },
    })
    return () => callBacks.remove()
}, [])
```

Camera authorization

You can use this hook in any functional component to check whether the app has camera authorization. For example:

```
export const useCameraAuthorization = () => {
  const [authorized, setAuthorized] = useState(false)

useEffect(() => {
   async function getAuth() {
      const isAuthorized = await PassioSDK.requestCameraAuthorization()
      setAuthorized(isAuthorized)
   }
   getAuth()
   }, [])

return authorized
}
```

How to handle configuration in the UI

In this component, PassioConfigurationView , you're conditionally rendering different UI elements based on the sdkStatus and leftFile values. Here's a

breakdown of how this works:

Switch on sdkStatus:

- The component switches between different UI layouts based on the current value of sdkStatus:
 - Case 'ready': When sdkStatus is "ready", it displays a UI element that says SDK is Ready.
 - Case 'error': If sdkStatus is "error", it shows an error message SDK is Error.
 - **Default case**: If sdkStatus is anything else (including when it's 'init' or 'downloading'), it shows an ActivityIndicator (a loading spinner) and, if leftFile is not null, it displays how many files are left to download.

```
export const PassioConfigurationView = () => {
 // Rest of the Code //
  return (
    <View style={styles.container}>
      {(() => {
        switch (sdkStatus) {
          case "ready":
            return (
              <View style={styles.middle}>
                <Text>SDK is Ready</Text>
              </View>
            );
          case "error":
            return (
              <View style={styles.middle}>
                <Text>SDK is Error</Text>
              </View>
            );
          default:
            return (
              <View style={styles.middle}>
                <ActivityIndicator</pre>
                size={20}
                color={"white"}
              />
              {leftFile!==null && <Text>{`Downloading file left ${leftFil
              </View>
            );
        3
      })()}
    </View>
 );
};
const styles = StyleSheet.create({
  container: {
    flex: 1,
    backgroundColor: "rgba(79, 70, 229, 1)",
  },
  middle: {
    position: "absolute",
    top: 0,
    bottom: 0,
    justifyContent: "center",
    alignItems: "center".
```

```
alignSelf: "center",
},
});
```

Check out the full code here. FULL CODE