Deployment documentation

- **Link to repository:**
  https://github.com/EHB-MCT/full-projects-3-openbiolab-terminator

Steps to create and use app:

1. **unzip folder**

2. **open folder in android studio**

3. **on your android phone, go to settings and enable developer mode by going to "about phone" or "about device" and tapping 7 times on the "build_number".**

4. **go to developer options and enable debugging**

5. **connect your android phone to the pc and select it under devices in the top right corner.**

6. **press "run app" button right next to the "select device" dropdown bar.**

7.
WEEK 1
- **Used sources to build the app:**

Getting started with android studio (creating a simple android app)
=>https://www.youtube.com/watch?v=BBWyXo-3JGQ&ab_channel=TraversyMedia

Camera application (CameraX)
=> https://developer.android.com/codelabs/camerax-getting-started#0

Navigate through different pages
=>https://stackoverflow.com/questions/45108239/how-to-create-a-button-in-kotlin-that-opens-a-new-activity-android-studio
=> https://www.youtube.com/watch?v=Nq7ZqMAMEfc&ab_channel=AndroidPro

Add other pages in activity so that the app can navigate through the different pages
=> YouTube video (4:54)

- **Installed software**

    Android studio

WEEK 2

- **link to the code repository**

https://github.com/EHB-MCT/full-projects-3-openbiolab-terminator

- **links to the used services**

no services are used

  - **configuration files (export) of the services**
  - **links to used frameworks**
  - **References to used code**

how to import the opencv module in android studio artic frost.
=> https://www.youtube.com/watch?v=psoeNfFAKL8&t=0s

importing opencv in android studio
=>https://philipplies.medium.com/setting-up-latest-opencv-for-android-studio-and-kotlin-2021-edition-259be404b133

import Chaquopy in android studio to run python scripts
 https://chaquo.com/chaquopy/doc/current/android.html
https://www.youtube.com/watch?v=dFtxLCSu3wQ&ab_channel=ProgrammingFever

Python in android studio
https://www.youtube.com/watch?v=27kdAqDUpcE&list=PLeOtHc_su2eXZuiqCH4pBgV6vamBbP88K

Opencv with python
https://www.youtube.com/watch?v=qCR2Weh64h4&list=PLzMcBGfZo4-lUA8uGjeXhBUUzPYc6vZRhttps://www.youtube.com/watch?v=qCR2Weh64h4&list=PLzMcBGfZo4-lUA8uGjeXhBUUzPYc6vZRnn

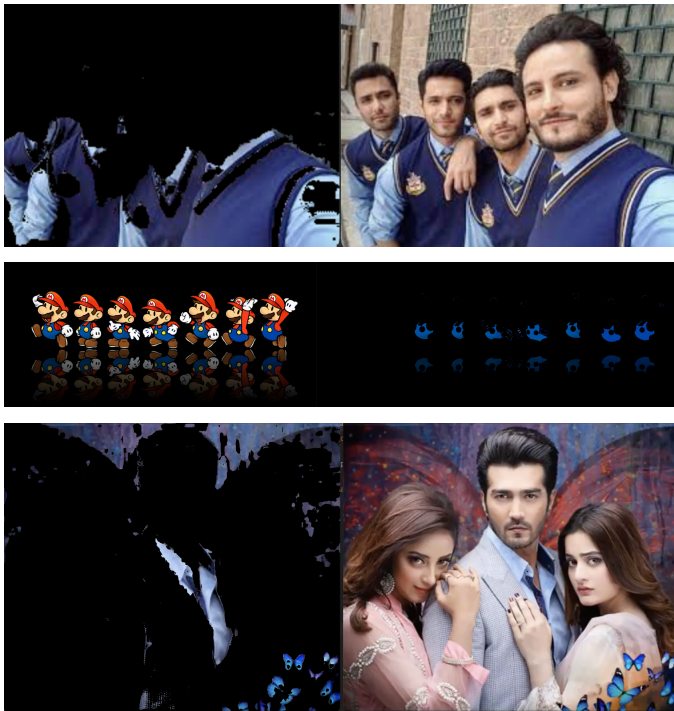https://opencv.org/opencv-free-course/

Detect blue color with opencv python

https://www.youtube.com/watch?v=ddSo8Nb0mTw&list=PLzMcBGfZo4-lUA8uGjeXhBUUzPYc6vZRn&index=5&ab_channel=TechWithTim

Examples :

- **details and configuration of the used server**

not used

- **all the detailed versions of the above (including the OS, installed software)**

android studio emulator running on V-4

WEEK 3

Integrating and adding Google sign-in in android project
https://developers.google.com/identity/sign-in/android/start-integrating
https://developers.google.com/identity/sign-in/android/sign-in
https://www.youtube.com/watch?v=ZC2w2iQQOdo

Run command to get SHA-1 of signing certificate
https://developers.google.com/android/guides/client-auth#using_gradles_signing_report

Log out and disconnect(delete) account
https://developers.google.com/identity/sign-in/android/disconnect

Add firebase to project
Android studio : Tools>Firebase

=> Authentication:
https://firebase.google.com/docs/auth/android/google-signin?utm_source=studio#kotlin+ktx

=> Real time database:
https://firebase.google.com/docs/database/android/start#kotlin+ktx
https://www.youtube.com/playlist?list=PLj76U7gxVixQ1JcaOCA7U12SoS8l-21xU
(explained in Urdu)

Fix error: Duplicate resource
https://stackoverflow.com/questions/29508721/android-studio-error-duplicate-resource

SQLite database in Android
https://www.geeksforgeeks.org/android-sqlite-database-in-kotlin/

Coroutine implementation
https://developer.android.com/codelabs/kotlin-coroutines#2

Fix error : You need to use a Theme.AppCompat theme (or descendant) with this activity
https://stackoverflow.com/questions/21814825/you-need-to-use-a-theme-appcompat-theme-or-descendant-with-this-activity

add flash code

https://stackoverflow.com/questions/56198750/how-does-camerax-library-can-turn-on-off-the-torch

Miro link

https://miro.com/app/board/uXjVOVXFsEk=/

planning

https://freedcamp.com/manage_combined/view?groupid=1270438&projectid=3143104

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
17 TAAK: Moodboard	**18** TAAK: design app TAAK: dev programming & research TAAK: sprint planning w…	**19**	**20** TAAK: pitch pwp DO: on campus TAAK: Scope and user st… TAAK: deployment docu	**21** DO: campus Jette DO: presentation	**22**
24 TAAK: design af TAAK: dev camera TAAK: Sprint planning w… DO: on campus	**25**	**26** TAAK: dev camera + interface TAAK: Individuele inbren…	**27** TAAK: Deployment docu… TAAK: Design - group TAAK: pwp	**28**	**29**

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31 TAAK : dev - interface TAAK : dev - log in system SUBMIT : Sprint plannin… TAAK : dev - test box TAAK : des - splash giff	**01** TAAK : des - promo A2 DO : on campus TAAK : dev - open cv	**02** TAAK : des - key images SUBMIT : Individuele inb… TAAK : dev - test box	**03** SUBMIT : des - Promotio… SUBMIT : des - Promotio… SUBMIT : des - Promotio… SUBMIT : des - Presenta… SUBMIT : dev - Deploym…	**04**	**05**