App automation code:

1

```robotframework
*** Settings ***
Library    AppiumLibrary

*** Variables ***
${REMOTE_URL}    http://localhost:4723/wd/hub
${PLATFORM_NAME}    Android
${PLATFORM_VERSION}    13
${APP_ACTIVITY}    LauncherAlias
${AUTOMATION_NAME}    UiAutomator2
${APP_PACKAGE}    com.practo.fabric

*** Test Cases ***
Open Test Application
    Open Application    ${REMOTE_URL}    platformName=${PLATFORM_NAME}
platformVersion=${PLATFORM_VERSION}    appActivity=${APP_ACTIVITY}
automationName=${AUTOMATION_NAME}    appPackage=${APP_PACKAGE}


Enter Details to Login
    Wait Until Page Contains Element    com.practo.fabric:id/login_help    10
    Click Element    com.practo.fabric:id/login_help
    Click Element
//android.widget.Button[@resource-id="com.practo.fabric:id/card_button" and
@text="Sign in with email"]
    Input Text    com.practo.fabric:id/email_edit_text
mobile.practo+consult1@gmail.com
    Input Text    com.practo.fabric:id/password_edit_text    practo@321
    Click Element    com.practo.fabric:id/continue_button

  wait until element is visible
com.android.permissioncontroller:id/permission_deny_button  10
  click element    com.android.permissioncontroller:id/permission_deny_button

    wait until element is visible  com.practo.fabric:id/close    15
    click element    com.practo.fabric:id/close
    click element    com.practo.fabric:id/close



  wait until element is visible
com.practo.fabric:id/home_search_bar_text_view  10
  click element    com.practo.fabric:id/home_search_bar_text_view


  wait until element is visible
//android.widget.EditText[@resource-id="com.practo.fabric:id/search_bar"]    10
```

```
   input text
//android.widget.EditText[@resource-id="com.practo.fabric:id/search_bar"]
dentist

   wait until element is visible
//androidx.recyclerview.widget.RecyclerView[@resource-id="com.practo.fabric:id/
recycler_view_list"]/android.view.ViewGroup[1]/android.widget.LinearLayout/andr
oid.widget.LinearLayout   10
   click element
//androidx.recyclerview.widget.RecyclerView[@resource-id="com.practo.fabric:id/
recycler_view_list"]/android.view.ViewGroup[1]/android.widget.LinearLayout/andr
oid.widget.LinearLayout

   wait until element is visible   //android.view.View[@content-desc="Book
In-clinic Appointment. Book an appointment with a top dentist"]
   click element   //android.view.View[@content-desc="Book In-clinic
Appointment. Book an appointment with a top dentist"]

   wait until element is visible
com.practo.fabric:id/layout_item_listing_doctor_card_info   10
   click element   com.practo.fabric:id/layout_item_listing_doctor_card_info

   wait until element is visible  com.practo.fabric:id/text_view_all_slots
10
   click element   com.practo.fabric:id/text_view_all_slots
   wait until element is visible   com.practo.fabric:id/slot_info  10
   click element   com.practo.fabric:id/slot_info
```
2

1. **Wait Until Page Contains Element (Login Help):**
    ○ Wait for the login help element to be visible within 10 seconds.
2. **Click Element (Login Help):**
    ○ Click on the login help button.
3. **Click Element (Sign in with Email):**
    ○ Click on the button to sign in with email.
4. **Input Text (Email):**

- ○ Enter the email address
  `mobile.practo+consult1@gmail.com` into the
  email input field.
5. **Input Text (Password):**
   - ○ Enter the password `practo@321` into the password
     input field.
6. **Click Element (Continue Button):**
   - ○ Click on the continue button to proceed with the
     login.

Scenario 3: Handling Permissions and Pop-ups

Purpose: Handle any permission requests and close any
pop-up windows that appear after logging in.

Steps:

1. **Wait Until Element Is Visible (Permission Deny
   Button):**
   - ○ Wait for the permission deny button to be visible
     within 10 seconds.
2. **Click Element (Permission Deny Button):**
   - ○ Click the permission deny button to deny any
     permission requests.
3. **Wait Until Element Is Visible (Close Button):**
   - ○ Wait for the close button to be visible within 15
     seconds.
4. **Click Element (Close Button):**
   - ○ Click the close button to close any pop-up windows
     that appear.

5. **Click Element (Close Button):**
   ○ Click the close button again if there is another pop-up.

Scenario 4: Searching for a Dentist and Booking an Appointment

Purpose: Verify that a user can search for a dentist and book an appointment successfully.

Steps:

1. **Wait Until Element Is Visible (Search Bar):**
   ○ Wait for the home search bar to be visible within 10 seconds.
2. **Click Element (Search Bar):**
   ○ Click on the home search bar to initiate a search.
3. **Wait Until Element Is Visible (Search Input Field):**
   ○ Wait for the search input field to be visible within 10 seconds.
4. **Input Text (Search Input Field):**
   ○ Enter the keyword `dentist` into the search input field.
5. **Wait Until Element Is Visible (First Search Result):**
   ○ Wait for the first search result to be visible within 10 seconds.
6. **Click Element (First Search Result):**
   ○ Click on the first search result to select it.
7. **Wait Until Element Is Visible (Book In-clinic Appointment):**

○ Wait for the "Book In-clinic Appointment" option to be visible.

8. **Click Element (Book In-clinic Appointment):**
   ○ Click on the option to book an in-clinic appointment with a top dentist.

9. **Wait Until Element Is Visible (Doctor Card Info):**
   ○ Wait for the doctor's card information to be visible within 10 seconds.

10. **Click Element (Doctor Card Info):**
    ○ Click on the doctor's card to view more information and book an appointment.

11. **Wait Until Element Is Visible (View All Slots):**
    ○ Wait for the "View All Slots" option to be visible within 10 seconds.

12. **Click Element (View All Slots):**
    ○ Click on the "View All Slots" option to see available appointment slots.
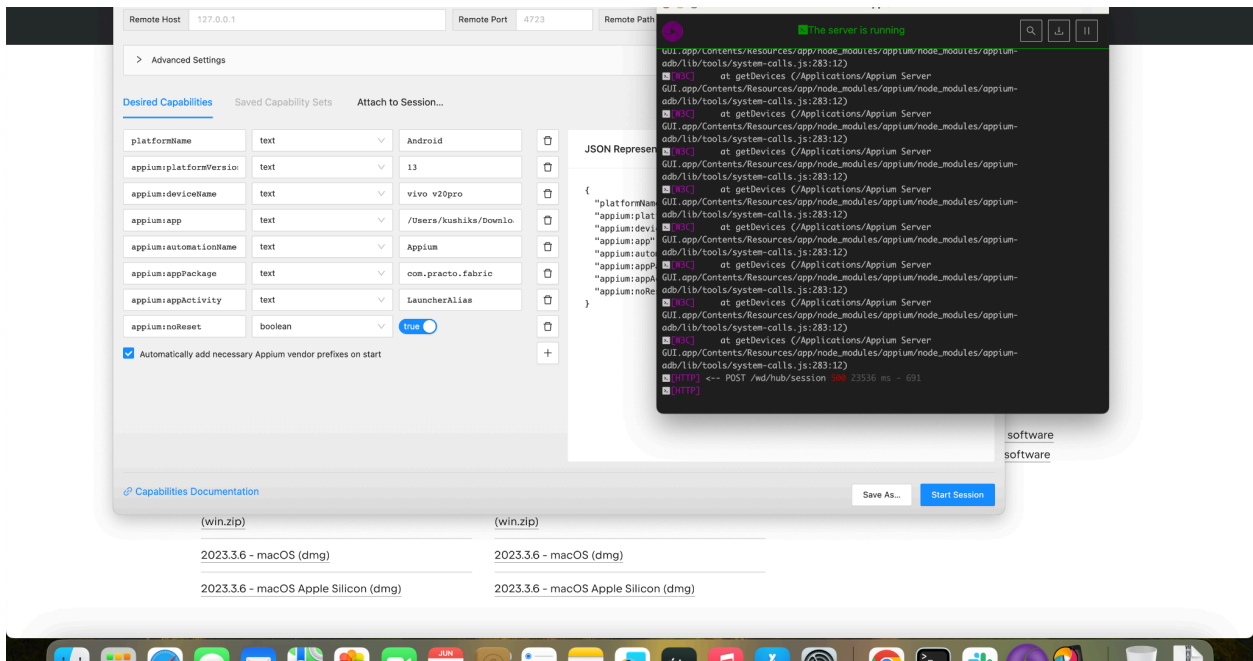
13. **Wait Until Element Is Visible (Slot Info):**
    ○ Wait for the slot information to be visible within 10 seconds.
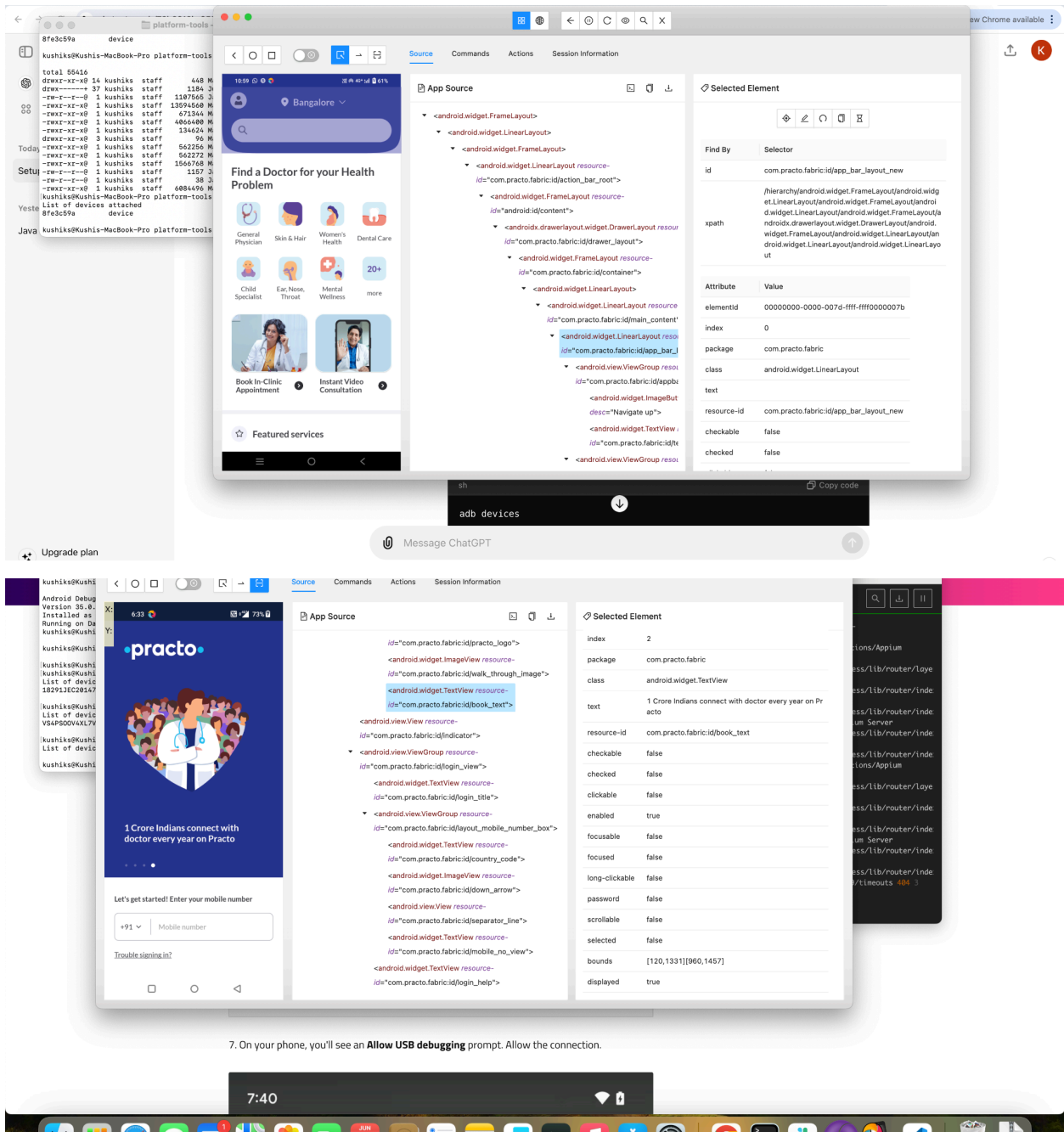
14. **Click Element (Slot Info):**
    ○ Click on a specific slot to book the appointment.

3

Remote Host   127.0.0.1   Remote Port   4723   Remote Path

> Advanced Settings

Desired Capabilities   Saved Capability Sets   Attach to Session...

platformName	text	Android
appium:platformVersio:	text	13
appium:deviceName	text	vivo v20pro
appium:app	text	/Users/kushiks/Downlo:
appium:automationName	text	Appium
appium:appPackage	text	com.practo.fabric
appium:appActivity	text	LauncherAlias
appium:noReset	boolean	true

☑ Automatically add necessary Appium vendor prefixes on start

JSON Represen

```
{
    "platformNam
    "appium:plat
    "appium:devi
    "appium:app"
    "appium:auto
    "appium:appP
    "appium:appA
    "appium:noRe
}
```

🟢 The server is running

```
GUI.app/Contents/Resources/app/node_modules/appium/node_modules/appium-
adb/lib/tools/system-calls.js:283:12)
[DBG]    at getDevices (/Applications/Appium Server
GUI.app/Contents/Resources/app/node_modules/appium/node_modules/appium-
adb/lib/tools/system-calls.js:283:12)
[W3C]    at getDevices (/Applications/Appium Server
GUI.app/Contents/Resources/app/node_modules/appium/node_modules/appium-
adb/lib/tools/system-calls.js:283:12)
[DBG]    at getDevices (/Applications/Appium Server
GUI.app/Contents/Resources/app/node_modules/appium/node_modules/appium-
adb/lib/tools/system-calls.js:283:12)
[W3C]    at getDevices (/Applications/Appium Server
GUI.app/Contents/Resources/app/node_modules/appium/node_modules/appium-
adb/lib/tools/system-calls.js:283:12)
[DBG]    at getDevices (/Applications/Appium Server
GUI.app/Contents/Resources/app/node_modules/appium/node_modules/appium-
adb/lib/tools/system-calls.js:283:12)
[W3C]    at getDevices (/Applications/Appium Server
GUI.app/Contents/Resources/app/node_modules/appium/node_modules/appium-
adb/lib/tools/system-calls.js:283:12)
[DBG]    at getDevices (/Applications/Appium Server
GUI.app/Contents/Resources/app/node_modules/appium/node_modules/appium-
adb/lib/tools/system-calls.js:283:12)
[HTTP] <-- POST /wd/hub/session 500 23536 ms - 691
[HTTP]
```

⌗ Capabilities Documentation   Save As...   **Start Session**

(win.zip)   (win.zip)

2023.3.6 - macOS (dmg)   2023.3.6 - macOS (dmg)

2023.3.6 - macOS Apple Silicon (dmg)   2023.3.6 - macOS Apple Silicon (dmg)

```
=> Close and reopen your terminal to start using nvm or run the following to use it now:

export NVM_DIR="$HOME/.nvm"
[ -s "$NVM_DIR/nvm.sh" ] && \. "$NVM_DIR/nvm.sh"  # This loads nvm
[ -s "$NVM_DIR/bash_completion" ] && \. "$NVM_DIR/bash_completion"  # This loads nvm bash_completion
kushiks@Kushis-MacBook-Pro ~ % nvm install 20
zsh: command not found: nvm
kushiks@Kushis-MacBook-Pro ~ % export NVM_DIR="$HOME/.nvm"
[ -s "$NVM_DIR/nvm.sh" ] && \. "$NVM_DIR/nvm.sh"
kushiks@Kushis-MacBook-Pro ~ % nvm install 20
Downloading and installing node v20.15.0...
Downloading https://nodejs.org/dist/v20.15.0/node-v20.15.0-darwin-x64.tar.xz...
################################################################### 100.0%
Computing checksum with shasum -a 256
Checksums matched!
Now using node v20.15.0 (npm v10.7.0)
Creating default alias: default -> 20 (-> v20.15.0)
kushiks@Kushis-MacBook-Pro ~ % node -v
v20.15.0
kushiks@Kushis-MacBook-Pro ~ % npm -v
10.7.0
kushiks@Kushis-MacBook-Pro ~ % export JAVA_HOME=$(/usr/libexec/java_home)
export PATH=$JAVA_HOME/bin:$PATH
kushiks@Kushis-MacBook-Pro ~ % echo $JAVA_HOME
/Library/Java/JavaVirtualMachines/jdk-22.jdk/Contents/Home
kushiks@Kushis-MacBook-Pro ~ % cd /Applications/PyCharm.app/Contents/jbr/Contents/Home

kushiks@Kushis-MacBook-Pro Home % sudo rm -rf *

Password:
kushiks@Kushis-MacBook-Pro Home % rm -rf ~/Library/Preferences/PyCharmJBR

kushiks@Kushis-MacBook-Pro Home % rm -rf ~/Library/Preferences/PyCharmJBR

kushiks@Kushis-MacBook-Pro Home % rd /s /q .

zsh: command not found: rd
kushiks@Kushis-MacBook-Pro Home % rm -rf PyCharmJBR

kushiks@Kushis-MacBook-Pro Home % cd ~

kushiks@Kushis-MacBook-Pro ~ % nano .profile

kushiks@Kushis-MacBook-Pro ~ % # Add a comment describing your configuration
export PATH="$PATH:/path/to/your/custom/bin"
alias ll="ls -l"

zsh: command not found: #
kushiks@Kushis-MacBook-Pro ~ % export PATH="$PATH:/path/to/your/custom/bin"
alias ll="ls -l"
kushiks@Kushis-MacBook-Pro ~ % source ~/.profile
```

7. On your phone, you'll see an **Allow USB debugging** prompt. Allow the connection.

Source Commands Actions Session Information

App Source

▼ <android.widget.FrameLayout>
  ▼ <android.widget.LinearLayout>
    ▼ <android.widget.FrameLayout>
      ▼ <android.widget.LinearLayout resource-id="com.practo.fabric:id/action_bar_root">
        ▼ <android.widget.FrameLayout resource-id="android:id/content">
          ▼ <android.widget.LinearLayout>
            ▼ <android.widget.FrameLayout>
              ▼ <android.view.ViewGroup resource-id="com.practo.fabric:id/toolbar_provider_p
                  <android.widget.ImageButton content-desc="Navigate up">
                ▼ <android.view.ViewGroup resource-id="com.practo.fabric:id/toolbar_docto
              ▼ <android.widget.LinearLayout>
                ▼ <android.view.ViewGroup resource-id="com.practo.fabric:id/doctor">
                ▼ <androidx.recyclerview.widget.RecyclerVie
                    id="com.practo.fabric:id/recycler_view_slot
                  ▼ <android.widget.FrameLayout>
                      <android.widget.FrameLayout>

Selected Element

Find By	Selector
id	com.practo.fabric:id/next_availability_main_container
xpath	/hierarchy/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.LinearLayout/androidx.viewpager.widget.ViewPager/android.widget.FrameLayout/android.widget.ScrollView/android.widget.LinearLayout/android.view.ViewGroup

Attribute	Value
elementId	00000000-0000-0087-ffff-ffff0000081a
index	1
package	com.practo.fabric
class	android.view.ViewGroup
text	
resource-id	com.practo.fabric:id/next_availability_main_container
checkable	false

11:01

Dr. Sumanth Shetty
Chisel Dental, Koramangala

Clinic Visit Slots

| 29 Jun to 6 Jul | Sun, 7 Jul | Mon, 8 |
| No slots available | 27 slots available | 27 slots av |

29 Jun to 6 Jul

No slots available

Next availability on Sun, 7 Jul

OR

Contact Clinic

Message ChatGPT

```
Last login: Fri Jun 28 00:26:46 on ttys007
kushiks@Kushis-MacBook-Pro ~ % java -version
java version "1.8.0_411"
Java(TM) SE Runtime Environment (build 1.8.0_411-b09)
Java HotSpot(TM) 64-Bit Server VM (build 25.411-b09, mixed mode)
kushiks@Kushis-MacBook-Pro ~ % java -version
java version "22.0.1" 2024-04-16
Java(TM) SE Runtime Environment (build 22.0.1+8-16)
Java HotSpot(TM) 64-Bit Server VM (build 22.0.1+8-16, mixed mode, sharing)
kushiks@Kushis-MacBook-Pro ~ % java -version

java version "22.0.1" 2024-04-16
Java(TM) SE Runtime Environment (build 22.0.1+8-16)
Java HotSpot(TM) 64-Bit Server VM (build 22.0.1+8-16, mixed mode, sharing)
kushiks@Kushis-MacBook-Pro ~ % curl -o- https://raw.githubusercontent.com/nvm-sh/nvm/v0.39.7/install.sh | bash

  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100 16555  100 16555    0     0  40630      0 --:--:-- --:--:-- --:--:-- 40675
=> nvm is already installed in /Users/kushiks/.nvm, trying to update using git
=> => Compressing and cleaning up git repository

=> Appending nvm source string to /Users/kushiks/.zprofile
=> Appending bash_completion source string to /Users/kushiks/.zprofile
=> You currently have modules installed globally with `npm`. These will no
=> longer be linked to the active version of Node when you install a new node
=> with `nvm`; and they may (depending on how you construct your `$PATH`)
=> override the binaries of modules installed with `nvm`:

/usr/local/lib
├── appium@2.10.3
=> If you wish to uninstall them at a later point (or re-install them under your
=> `nvm` Nodes), you can remove them from the system Node as follows:

     $ nvm use system
     $ npm uninstall -g a_module

=> Close and reopen your terminal to start using nvm or run the following to use it now:

export NVM_DIR="$HOME/.nvm"
[ -s "$NVM_DIR/nvm.sh" ] && \. "$NVM_DIR/nvm.sh"  # This loads nvm
[ -s "$NVM_DIR/bash_completion" ] && \. "$NVM_DIR/bash_completion"  # This loads nvm bash_completion
kushiks@Kushis-MacBook-Pro ~ % nvm install 20
zsh: command not found: nvm
kushiks@Kushis-MacBook-Pro ~ % export NVM_DIR="$HOME/.nvm"
[ -s "$NVM_DIR/nvm.sh" ] && \. "$NVM_DIR/nvm.sh"
kushiks@Kushis-MacBook-Pro ~ % nvm install 20
Downloading and installing node v20.15.0...
Downloading https://nodejs.org/dist/v20.15.0/node-v20.15.0-darwin-x64.tar.xz...
######################################################################## 100.0%
Computing checksum with shasum -a 256
Checksums matched!
Now using node v20.15.0 (npm v10.7.0)
Creating default alias: default -> 20 (-> v20.15.0)
kushiks@Kushis-MacBook-Pro ~ % node -v
v20.15.0
kushiks@Kushis-MacBook-Pro ~ % npm -v
10.7.0
kushiks@Kushis-MacBook-Pro ~ % export JAVA_HOME=$(/usr/libexec/java_home)
export PATH=$JAVA_HOME/bin:$PATH
kushiks@Kushis-MacBook-Pro ~ % echo $JAVA_HOME
/Library/Java/JavaVirtualMachines/jdk-22.jdk/Contents/Home
kushiks@Kushis-MacBook-Pro ~ % cd /Applications/PyCharm.app/Contents/jbr/Contents/Home

kushiks@Kushis-MacBook-Pro Home % sudo rm -rf *

Password:
kushiks@Kushis-MacBook-Pro Home % rm -rf ~/Library/Preferences/PyCharmJBR

kushiks@Kushis-MacBook-Pro Home % rm -rf ~/Library/Preferences/PyCharmJBR

kushiks@Kushis-MacBook-Pro Home % rd /s /q .

zsh: command not found: rd
```

challenges /issues:

 Enter login details and navigate to the ... | FAIL |

ValueError: Element locator 'id=com.practo.fabric:id/email_edit_text' did not match any elements.

Notification permission issues

  | FAIL |
Element 'com.practo.fabric:id/login_help' did not appear in 10 seconds