**Tech stack**

* JS
* WDIO
* Cucumber
* Appium

**Framework structure**

We are going to develop a framework for native app automation using the technologies above. Initially we will design a POM (page object based) architecture based framework, which will require to develop

* A baseconfig file which will allow us to
* generate allure report
* capture screenshot of failed test cases (after scenario)
* set environment/platform/device
* log
* environment variables
* testdata reader
* iOS and Android config files with capabilities
* Package.json   
  dependencies {

applitools/eyes-selenium

applitools/eyes-webdriverio

wdio/allure-reporter

appium

appium-uiautomator2-server

cucumber

currency.js

faker

xml-writer}

* firebase service for iOS and android app download
* util
* mobile commands
* testConstants {

directions

appPath

timeout

login creds}

* gmail service for verifying emails
* create POC(account log in) to confirm both iOS and android apps work

We can create POC [iOS](https://apps.apple.com/us/app/stadium-goods-buy-sneakers/id1288719040)

* gitlab ci file   
  multi-stage:
* test
* allure-report
* allure trendline on gitlab pages
* dockerfile

Useful links

<https://webdriver.io/docs/boilerplates>

<https://www.browserstack.com/docs/app-automate/appium/getting-started/nodejs/webdriverio>

<https://www.browserstack.com/guide/webdriverio-tutorial-for-selenium-automation>

<https://medium.com/testvagrant/generating-allure-trendline-on-gitlab-pages-df01c8798ae2>