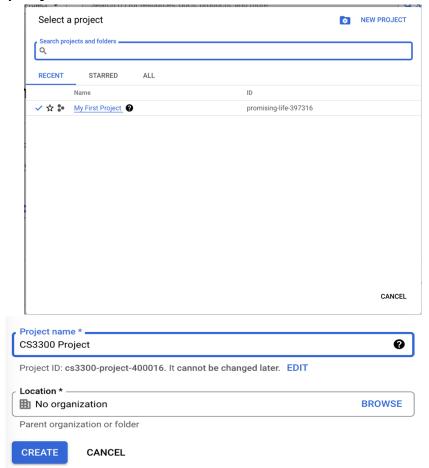
DEPLOY SIMPLE JAVA APPLICATION USING GOOGLE APP ENGINE

Prerequisites

- Download Google Cloud CLI: Google Cloud CLI download for your respective OS and run the script to install it
- GCP credit application
- Make Sure Billing Information is Set Up

Process

 Create a project : Navigate to <u>Google Cloud Console</u> and create a project



- Create a Simple Spring Boot Application:
 - Naviage to https://start.spring.io/
 - Project: Maven
 - Packaginging: jar
 - Java: 8 (Recommended)
 - Add the Spring Web dependency and click Generate
- Create a HelloWorld Controller to test the endpoint

```
@RestController
class HelloWorldController {
    no usages
        @GetMapping("/hello")
    public String hello() {
        return "Hello World!";
}
```

• Update the POM file to have the Google Cloud Tools Plugin

Once added make sure to rebuild the POM file

- Package the Maven Build: To test and get development server running, we will need maven.
 - o If there is a path variable defined for maven run:
 - mvn clean install -DskipTests in the root directory
 - o If no path variable, macOS can run
 - ./mvnw clean install -DskipTests
 - Windows can run
 - ./mvnw.cmd clean install -DskipTests
- This packages the maven build into a JAR file in the Target directory which we will use to deploy onto GCP



Deploy to GCP

- Run gcloud -v to make sure the Google Cloud CLI is installed
- Run gcloud init to initialize google cloud.
 - Make sure to choose the default configuration
 - You will then be prompted to login with your email (Make sure to use the email that has billing set up with the credits provided)

- Choose the project name that you just created
- Now make sure to CD into your target directory where the JAR file was generated
 - Run gcloud app deploy <jarFileName>
 - Choose the region you want to deploy onto, anything us-east is fine
- Once successfully deployed, there will be a URL in the console to take you to where the project is deployed.
 - If not run
 - gcloud app browse
- Clean up to avoid billing charges: Project settings=>shut down project