

Project Title: Building a Maven Project with Jenkins

Project objective:

Use Jenkins to create a Maven build job which will compile and run a local Maven project.

Background of the problem statement:

You're a DevOps engineer at PlanMyTrip, which is a web and mobile based app company that helps users plan their itineraries based on distance, climate, availability of transport, and accommodation. The company wants to use the OpenWeatherMap API for weather predictions. You're required to write a microservice that checks if the API is up and set up a Jenkins build job to compile and package the app with Jenkins. The program and the build job is expected to be expanded in the future to add additional functionalities like redirection, notification, etc. You're expected to create the program and build job to scale.

You must use the following:

- **Apache Maven:** To create a Maven project locally
- **Jenkins:** To create a build job that compiles and runs the app
- **Maven Plugin:** To build a Maven project from a local directory rather than a remote repository

Following requirements should be met:

- The program should be built with Maven
- The build job should be designed to build a local project
- The build job should compile and run the code if the build succeeds