

Name: Jimmy Palma ID:610756

Situation:

JVMConsultant is a software company which its main brand is located in Warren Michigan. JVMConsultant has different clients as General Motors, and so on.

I work for General Motors as Full Stack Developer. My manager is Marco Carnevale, who works from Canada, and I work with 9 more people. Depending of the task complexity, we work in pair programming or individually.

General Motors has different teams focused in many areas like mobile, sales, etc. The team I belong to is called Mobile onStar, but our team works in pair with other team called onStar Home.

Project: Mobile OnStar

General Motors has a product called onStar which provides direct communications with the clients by the smartphone. The communications could be oriented in many areas like in vehicle security, emergency services, navigation and remote diagnosis for many problems related with the car.

The project has Front end and back end. The front end works for Android devices and iPhones and it is developed in React.

The back-end is developed in Java with Framework Spring boot.

The users register by the smartphone to the onStar product with different options. Trial, is free for one month, and regular which is for three months.

Task:

As Full stack developer, I work in the front end and back-end tasks. I develop the subscription microservices. In the back-end, the task is to register the users in the different plans. In the front-end consume the microservices.

The system has been developed for a couple years; therefore, the system is available now for the users. Now in production there are available some services such as register for plans.

The main purpose for the project is to increase the access to the services, increases the benefits.

Action:

In this project, the topics studied in Enterprise Architecture, help me in the process to develop applications in Spring Boot and Microservices. For this purpose, I have applied subjects like RestController, Spring Security and all the topics related to Web Services.

For the front end, I based all my knowledge in the Modern Web Applications, where I studied all related to Node, Angular and Typescript and the communications with the Back end.

General Motors works with agile methodologies, we work with Scrum and we have all the roles explained in Software Engineering such as Project Owner, Scrum Master and developers. For Scrum, we have scrum meeting every morning to say all the Tasks we worked yesterday and the tasks we will work today. In these meetings, we discuss possible solutions for problems and ask the Product Owner about the business.

Result:

The users can access all the services from General Motors from the devices Android and iPhone. All the Microservices are published in the Azure Cloud.

The users can contract two plans, the first one is one month trial and the other plan is three months plan.

Currently the team is testing the mobile application in the last Operative Systems like Android 12. The OnStar application is not android or iOS native so it should not have problems but the QA team tasks is to test it.