**Project guidelines:**

**Note: "XXX" represents your project name.**

**Goal:** You got requirement from customer to build "XXX" project and quick delivery with quality maintained of your product. Utilized your Development and operations skills together to achieve end goal of project.

**Project Requirements:**

You need to build "XXX" project which should have bare minimum CRUD capabilities.

For example: Let take an example of Facebook app.

* Create post
* Edit added post
* List different posts
* Delete post

**Note:** You can build bare min UI (html + css + js ) for these CRUD operations on your project.

(JAVA SB, JSP)

G1 - - Restaurant list app

G2 - - Books shop listing app

G4 - - Jewellery listing app

G3 - - Grocery list app

G5 - - Real Estate Property list app

**Technical tools / stack you have to utilize:**

* Java / Java Spring boot / html / css / js / bootstrap
* Git - store your source code of projec
* Maven - building and managing project
* AWS -
* Docker
* DevOps Skills - Iteration and refine your project, collaborate inside team, distribute work and **get it done.**

**Mandatory Requirements:**

* Git to manage your project source code

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- Setup and configure ansible on your server EC2 - (2 instance ->> **1-MN** **1-HostNode**)

* Manage your server IT ops tasks such as Installtion / Uninstallation.

Your will write playbook to install

- Docker

- Git

- Apache/Nginx/Tomcat

- Maven

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* Java spring boot to code your application

* Db (**mysql**) assuming you have on your workstation.

* Create docker image of your application ().

* Push docker image to your docker hub repository.

* For setting up / testing your docker image, can use Virtual box or AWS EC2 Instance (up to your team)

- To run your application as container, use aws EC2 instance. You have to pull your application docker

image to run app.

* You have create administer IAM user to perform all AWS related active for your project.
* You have to create application load balance for you app

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* AWS - S3 integration using iamuser in JAVA / node

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**Good to have requirement**

You can add more feature to your project as you like.

- Utilize lambda functions in appropriate place

- mulesoft

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**Result: End date of training - 2nd or 3 Weeks**

**- Create presentation on all topics that has covered in your project.**

**- Add Learned topics slides as well e.g Kubernetes, QlikSense, AWS etc**

**- Try to keep your project in running state**

**Note:**

* As team, to utilize AWS instances for set of your task you can **create fresh account for your project**

related activities and after your work done you can submit waive off bill request.

- While doing dev and initial testing you can try to utilized **your VB virtual machine.**

* Make sure after your work done stop your EC2 instances.