

## Building online Shopping

For this month we will gradually build an online shopping using Java technologies,

In this period of time the first week operation will be building a crud operations.

### **Requirement**

Admin

1. A shop owner needs to add products, delete, update, edit and see list of products.

User

Needs to see list of products.

Let's not focus on the quality of the UI but at least it should look like somehow explanatory.

Product attributes includes

Name, price, category, type, image, description, rank, date created, date deleted.

~Technology for Backend

Spring boot,

Hibernate or JPA,

Restful Web Services(**REpresentational State Transfer**)

JUnit Tests

Java se8 (let's try to use lambda expressions)

MySQL Database

~Technology for front end

Restful Web Services(**REpresentational State Transfer**)

Html,

CSS,

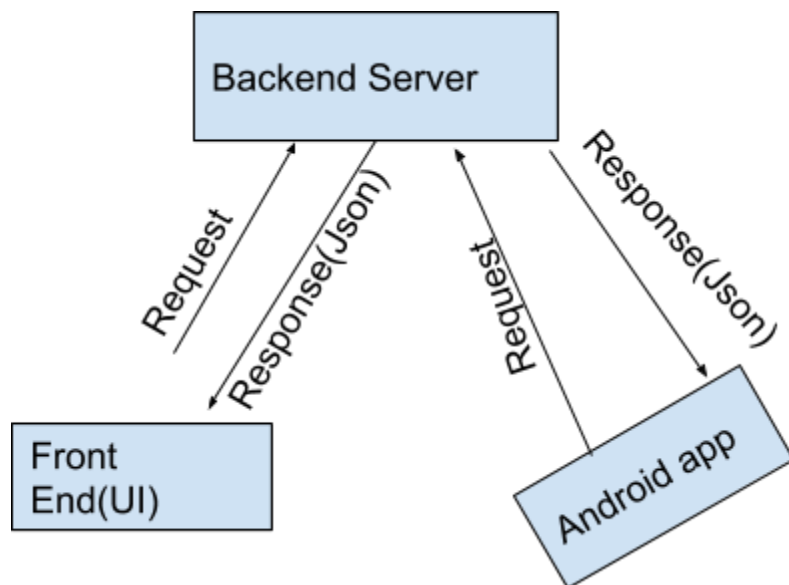
JSP,

JavaScript( Angular framework ) angular 6 or 7

Android app

Restful Web Services(**REpresentational State Transfer**)

Java se8



The communication of the data will be held by using REST API calls this helps us to develop different modules separately and we can use microservice architecture.

The focus on this project is to master and become comfortable with the technologies mentioned. That way we can expand the project accordingly.

Regarding Requirements collection, using UML notation specifically user stories and use cases ... i always start with those. As to create a firm and also flexible documentation to add on

USE CASE-001	View Data
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Description	Web app visitor can view list of products and it's details which is stored in relational database
Preconditions	A database must exist;0..* products to be posted
Actors	Visitor, Server(System)
Normal Sequence (Happy Path)	<p>Visitor request list of products from the database</p> <p>Server connects to the database and lists all posted jobs details</p>
Post conditions	Further actions on the displayed products allowed
Exceptions	<p>The requested product(s) does not exist; either an error is thrown or an empty list is displayed</p> <p>The database cannot be accessed; error message is displayed</p>

N.B i'm having hard time adding table into this google doc, coz i'm working on office libre. Let's create github repo... we can even try out the new github documentation which i never tried before.