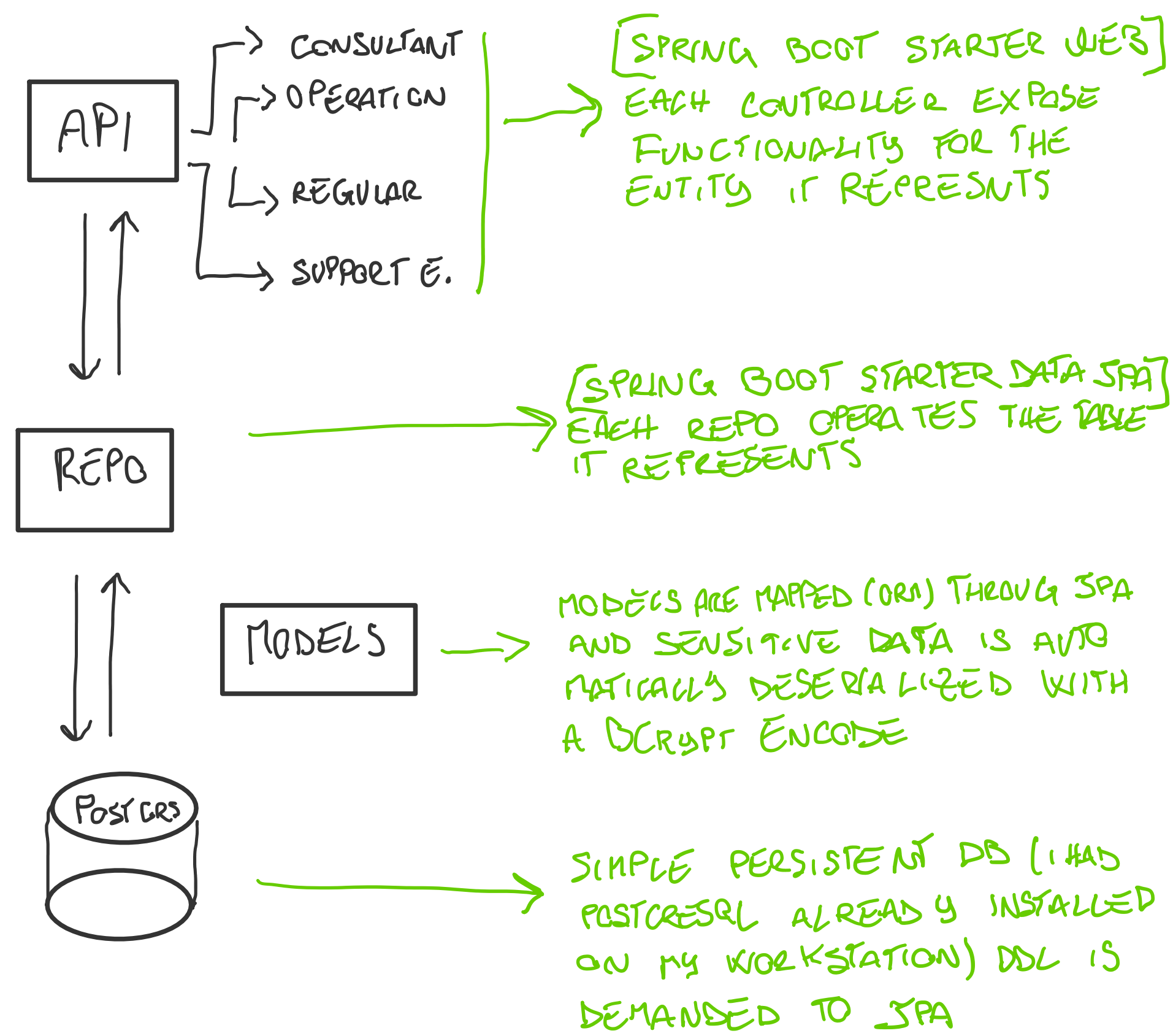
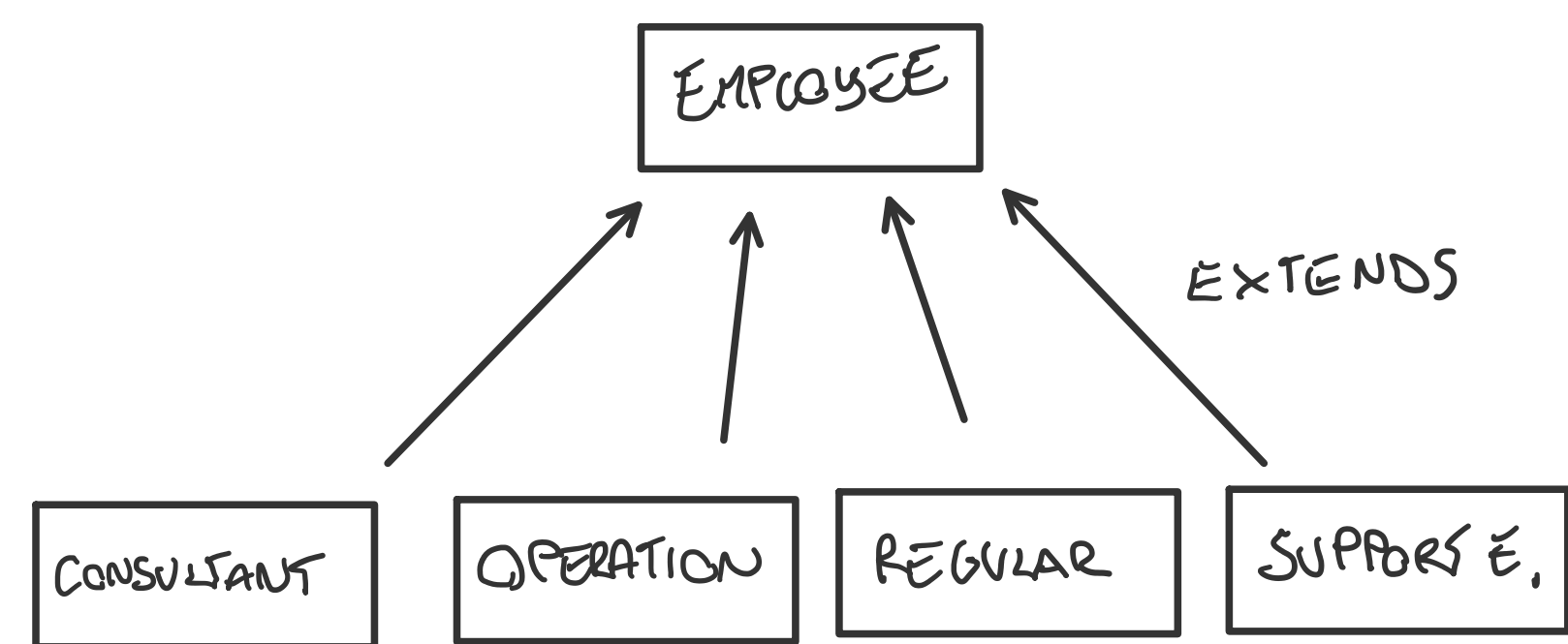


SERVER SIDE SOLUTION IS A SIMPLE 2-STACKS (PLUS MODELS) LAYERED SPRING BOOT APPLICATION (2.4.0):



## MODEL DEFINITION

AT JPA LEVEL MODEL HIERARCHY LOOKS LIKE THIS:



IMPLEMENTATION USES AN ABSTRACT SUPERCLASS (EMPLOYEE) MAPPED WITH @MAPPED SUPERCLASS ANNOTATION, THIS WILL CREATE 4 DIFFERENT TABLES WITH SOME REPEATED COLUMNS. CHOOSE HAVE BEEN MADE FOR SIMPLICITY OF EXECUTION, THIS MAY AFFECT PERFORMANCE IF THE AMOUNT OF DATA INCREASE TOO MUCH (CAN BE CHANGED WITH DIFFERENT JPA IMPL.).

## REPO DEFINITION

DEFAULT CRUD OPERATION ARE PROVIDED BY THE JPA REPOSITORY INTERFACE

## TESTING

PERSISTENCE: UNIT TESTED EVERY REPO FUNCTIONALITY WITH AN H2 DB (TO SPEED UP THE PROCESS)

API: INTEGRATION TESTED EVERY CONTROLLER ON THE PERSISTENT DB TO ENSURE EVERYTHING IS WORKING APPLICATION WIDE. USED WEBFLUX TO CREATE REACTIVE WEB CLIENTS ON THE GO

## TOOLS

ECLIPSE / MAVEN

POSTMAN

POSTGRES 13 (WITH TABLE PLUS)