# Spring Boot Demo

## Prerequesites (pre presentation)

1. copy base project including gradle wrapper.
2. import it into eclipse
3. try run

## Create simple REST service (while presentation)

1. Describe current state of project
   1. Application class
   2. build.gradle
2. Create City Entity
   1. implement Serializable
   2. Properties zip (id), name
   3. Getters / Setters
   4. equals(), hashCode()
3. Create City Repository
   1. Methoden:  
      *List<City> findAllByNameStartsWith(String name);*
4. Create City Service
   1. @Component @Transactional
   2. Autowired property CityRepository
   3. Methoden  
      *List<City> findAllByCountryIgnoreCase(String name)*
5. *Create Controlle*
   1. Annotate with @Component @RequestMapping("/city")
   2. Implement Method
      1. @RequestMapping(method=RequestMethod.GET)  
         @ResponseBody  
         List<City> findByPrefix(@RequestParam("startWith") String prefix){}
      2. Call to Service

## Enable security (while presentation)

1. Enable dependency to web-security
2. Enable @EnableGlobalMethodSecurity on Application class
3. add @RolesAllowed(“ROLE\_USER”) to methods

## Actuator (while presentation)

1. Show Endpoints (especially /info)
2. add application.properties  
   ***info.app.name=city-service   
   info.app.description=Provides cities of switzerland by prefix or zip.   
   info.app.version=0.1.0*management.port=8081
     
   management.security.enabled=false  
   management.contextPath=/manage**

## Remote Shell (optional while presentation)

1. Show dependency
2. ssh –p user@localhost