

Customer Manager	
Goal	Develop a simple Java application to expose REST APIs for "customer" management.
Tools/Frameworks (use latest versions)	Spring Boot Spring Security Maven Swagger 2 Angular2
Business objects	Customer [id, name, phone, address]
Business logic	User must have ability to: <ul style="list-style-type: none"> - get list of all customers; - create new customer; - get customer by id; - get customer by name; - update specific customer attribute: <p style="margin-left: 40px;">specify dynamically in request parameter called "fields" e.g. <i>fields=name,phone</i> request body: {"name":"John","phone":"555-55-55"}</p>
Additional requirements	<ul style="list-style-type: none"> - use JPA and embedded database for persistence (h2/hsqldb/derby); - create Angular2 front end which support exposed APIs; - add OAuth2 support to the project: <ul style="list-style-type: none"> * if user name starts with 'A' grant him ROLE_ADMIN and give access to the "update specific customer attribute" API * other users must have ROLE_USER and have access only to the first 4 APIs
Expose result	<ul style="list-style-type: none"> - once development is done, deploy project to pivotal CloudFoundry using a MySQL database instead of embedded; - send a working public URL to the Swagger page - send a working public URL to the Angular front end - send GitHub URL to the project sources
Estimated time	~40-50 hours