

# 0001 AtmAssignment

Document the understanding of the assignment (for a SA position at Backbase) sent by Janet Casteelen  
Source code is let available at: [https://github.com/andhdo/0001\\_atmassignment.git](https://github.com/andhdo/0001_atmassignment.git)

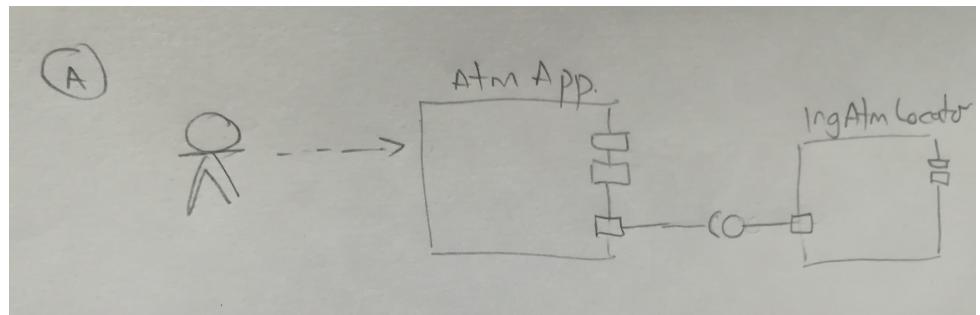
By Andres Hurtado ([andhdo@gmail.com](mailto:andhdo@gmail.com))

**WORK IN PROGRESS**

## Architecture Extract

### Conceptual View

We need to show ING ATM locations to the end user through a web application because his locality. According the instructions document as a source of requirements, we need to filter a document exposed by a rest remote service and filter those messages by a city name. Then we need to consume this filtered service and show this payload to the final user.



### Development View

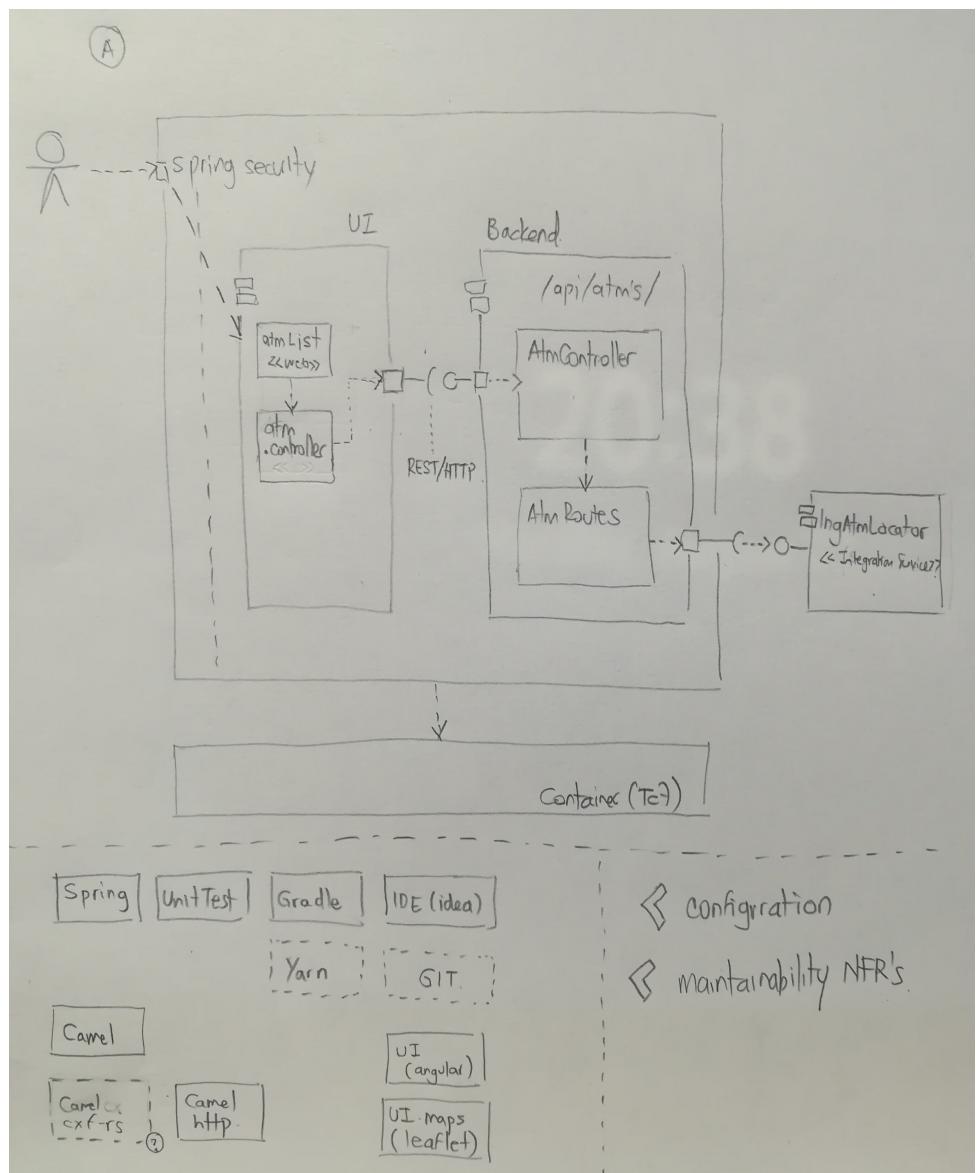
Guided by the NFRs<sup>1</sup> included inside the requirements we can build a more detailed static view of what we're trying to build:  
We need to build a spring application within a version control system (git), it's a web application that needs a build system (gradle), and an IDE to develop (idea-intelliJ). Then we need a way to consume and filter the rest service exposed by ING (the ATM list service), and some way to visualize the results.

With those requirements in hand, mainly I have two alternatives for the construction:

- Spring initializr
- jhipster

The second one is more heavyweight, including other tools like migrations and ORM framework and microservices capabilities that are not needed for this project. Then we are going to go with the first one as a simple monolithic application.

The application stack to be used is based in spring web, because it can provides us integration with spring-security and then we can access the payload processed by camel. In this scope, camel can be seen as a



<sup>1</sup> NonFunctional Requirements

lightweight integration framework that we can embed in the application and manipulate to do the integration with the ING atm service. In the case of java, initializr can give us a simple skeleton of the application. Spring-boot is used as basis to leverage the construction of the application instead of <xml> spring old legacy configuration.

The screenshot shows the Spring Initializr web interface. At the top, there are fields for 'Artifact coordinates' with 'Group' set to 'com.example' and 'Artifact' set to 'atm'. Below this is a section titled 'Dependencies' with a sub-instruction 'Add Spring Boot Starters and dependencies to your application'. A search bar contains the query 'Web, Security, JPA, Actuator, Devtools...'. Under 'Selected Dependencies', several items are listed: Web, Security, Lombok, Apache Camel, JPA, H2, and DevTools. A green button labeled 'Generate Project' is at the bottom, along with a note: 'Don't know what to look for? Want more options? Switch to the full version.' At the very bottom, it says 'start.spring.io is powered by Spring Initializr and Pivotal Web Services'.

We also need to install all the plumbing to build the web application that includes IDE, git-client tool, gradle (build tool)....

Because i'm not working in projects of java at this moment, we can look for a simple tutorial of spring boot and camel to build the baseline of the project. Also is not a bad idea to look for a tutorial to remember angular 1.0 that some time ago i used before and it fits with spring-boot out of the box (or at least is the promise of jhipster framework). Also this can help to lower the tools needed inside the ui (yarn,ts-preprocessors,...) in comparison of angular-4 (but maybe a future release of the application can include it).

For the UI we need to consume the service and then display the result of the service. We can include some angular and bootstrap libraries and make a simple layout for the project, and then use it to consume and preprocess the rest service for visualization purposes.

The final result can be seen in the image below, where I have included leaflet library and directive to show the payload.

The screenshot shows a browser window titled 'Starter Template for Bootstrap - Mozilla Firefox'. The address bar shows 'localhost:8080'. The page has a header with 'atmApp' and navigation links 'Home', 'Link', 'Disabled', and 'API'. On the left, there is a table with columns 'city', 'house#', and 'address', containing data for various ATMs in Amsterdam. On the right, there is a map of Amsterdam with numerous blue location pins. A search bar at the top right contains 'Amsterdam' and a 'Search' button. The URL in the address bar is 'localhost:8080/api/atms'.

city	house#	address
Amsterdam	33	1071 AP
Amsterdam	233	1098 AP
Amsterdam	1	1012 AB
Amsterdam	90	1073 LP
Amsterdam	3	1013 ZM
Amsterdam	71	1063 BH
Amsterdam	113	1068 SP
Amsterdam	74	1093 GH

Through a rest controller I'm exposing the rest results, but at this time i'm not passing a filter parameter to the request

Mozilla Firefox

hasCode.com » Blog ... | Inbox (3,135) - ahurta... | http://localhost:80/api/atms | +

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```
[{"address": {"street": "Van Baerlestraat", "housenumber": "33", "postalcode": "1071 AP", "city": "Amsterdam", "geoLocation": {"lat": "52.357087", "lng": "4.879845"}}, "distance": 0, "type": "ING"}, {"address": {"street": "Middenweg", "housenumber": "233", "postalcode": "1098 AP", "city": "Amsterdam", "geoLocation": {"lat": "52.349501", "lng": "4.937735"}}, "distance": 0, "type": "ING"}, {"address": {"street": "Stationsplein", "housenumber": "1", "postalcode": "1012 AB", "city": "Amsterdam", "geoLocation": {"lat": "52.377907", "lng": "4.901844"}}, "distance": 0, "type": "ING"}, {"address": {"street": "Van Woustraat", "housenumber": "90", "postalcode": "1073 LP", "city": "Amsterdam", "geoLocation": {"lat": "52.354964", "lng": "4.900921"}}, "distance": 0, "type": "ING"}, {"address": {"street": "Spaarnwouderdijk", "housenumber": "3", "postalcode": "1013 ZM", "city": "Amsterdam", "geoLocation": {"lat": "52.39165", "lng": "4.877995"}}, "distance": 0, "type": "ING"}, {"address": {"street": "Burgemeester de Vlugtlaan", "housenumber": "71", "postalcode": "1063 BH", "city": "Amsterdam", "geoLocation": {"lat": "52.379665", "lng": "4.83135"}}, "distance": 0, "type": "ING"}, {"address": {"street": "Osdorpplein", "housenumber": "113", "postalcode": "1068 SP", "city": "Amsterdam", "geoLocation": {"lat": "52.359387", "lng": "4.806997"}}, "distance": 0, "type": "ING"}, {"address": {"street": "Eerste van Swindenstraat", "housenumber": "74", "postalcode": "1093 GH", "city": "Amsterdam", "geoLocation": {"lat": "52.362632", "lng": "4.928015"}}, "distance": 0, "type": "ING"}, {"address": {"street": "Arent Janszoon Ernststraat", "housenumber": "551-559", "postalcode": "1082 LD", "city": "Amsterdam", "geoLocation": {"lat": "52.3321007", "lng": "4.8775673"}}, "distance": 0, "type": "ING"}, {"address": {"street": "Handelskade", "housenumber": "1065", "postalcode": "1019 BW", "city": "Amsterdam", "geoLocation": {"lat": "52.373962", "lng": "4.938648"}}, "distance": 0, "type": "ING"}, {"address": {"street": "Van Woustraat", "housenumber": "150", "postalcode": "1073 LV", "city": "Amsterdam", "geoLocation": {"lat": "52.353796", "lng": "4.903047"}}, "distance": 0, "type": "ING"}, {"address": {"street": "Hugo de Grootplein", "housenumber": "17", "postalcode": "1052 KV", "city": "Amsterdam", "geoLocation": {"lat": "52.374657", "lng": "4.872771"}}, "distance": 0, "type": "ING"}, {"address": {"street": "Beukkenplein", "housenumber": "6", "postalcode": "1091 KG", "city": "Amsterdam", "geoLocation": {"lat": "52.357386", "lng": "4.917528"}}, "distance": 0, "type": "ING"}, {"address": {"street": "Jodenbreestraat", "housenumber": "21", "postalcode": "1011 NH", "city": "Amsterdam", "geoLocation": {"lat": "52.368827", "lng": "4.903603"}}, "distance": 0, "type": "ING"}, {"address": {"street": "Buitenveldertselaan", "housenumber": "164", "postalcode": "1081 AC", "city": "Amsterdam", "geoLocation": {"lat": "52.325261", "lng": "4.867929"}}, "distance": 0, "type": "ING"}, {"address": {"street": "Van der Valkstraat", "housenumber": "127", "postalcode": "1021 CV", "city": "Amsterdam", "geoLocation": {"lat": "52.357386", "lng": "4.917528"}}, "distance": 0, "type": "ING"}]
```

However inside the camel route, I'm doing the filter for the Amsterdam city (currently burned in the code):

AtmController.java | AtmRoutes.java | BasicController.java | sample\_response.json

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import ...  
16  
17 @Component  
18 public class AtmRoutes extends RouteBuilder {  
19  
20     @Override  
21     public void configure() throws Exception {  
22         // to verify camel integration  
23         from( uri: "direct:home")  
24             .log("Camel body: ${body}")  
25             ;  
26  
27         from( uri: "direct:atmList")  
28             // .log("original ${body}")  
29             .transform()  
30             .jsonpath( text: "${?(@.address.city=='Amsterdam')}" )  
31             // .log("filteredData [result: ${body} ]")  
32             ;  
33  
34         // to verify routes  
35         from( uri: "direct:atmListFile")  
36             .process(new Processor() {  
37                 @Override  
38                 public void process(Exchange exchange) throws Exception {  
39                     Path sampleFile = Paths.get( first: "src/main/resources" )  
40                     File file = sampleFile.toFile();  
41                     AtmRoutes > configure()  
42             }  
43         }  
44     }  
45  
46     @StripProtection  
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# Comments

- For protection, the ing service manages a common prefix (" `]}Y` " ) . I created a filter for this because in another way the json could'n be manipulated easily by camel, but couldn't include it because of the time. It was a waste of time because tools like postman (<https://www.getpostman.com/postman>) hides the detail of the invoked payload.

# References

## Change Control

Date	Version	Comments
2017.08.07	1.0	Initial version [AH]
2017.08.07	1.1	