**Example review checklist design REST API**

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| **Checkpoint** | **Remark** |
|  |  |
| ***Architecture*** |  |
| API is understandable without knowledge of the organization or business behind it | Keep it simple |
| Clear division of internal structure/architecture and external service |  |
| API is build up of smaller modules that works in depended |  |
| API is following the REST rules | See architectural description at Wikipedia |
| ***Resources*** |  |
| Each resource, method and verb is recognizable defined |  |
| All resources have versioning | Think about updates in the future |
| Multiple output formats available |  |
| ***Performance*** |  |
| Each resource can be activated/deactivated | For maintenance |
| Access to each resource can be controlled how many requests in each time period | Performance control |
| ***Error codes*** |  |
| Error codes defined and international used | HTTP status codes |
| ***Documentation*** |  |
| There is documentation describing the API and how to use it |  |
| There is a data model of the API |  |
| There are examples of all resources |  |
| There is how to get started description |  |
| ***Testing*** |  |
| There is a test version of the API |  |
| Each resource can be mocked with local results |  |
| There are multiple test implementation of the API |  |
| There are tools supporting testing the API |  |
| ***Security*** |  |
| Security is implemented for the type of data that is returned |  |
| Implement use and maintenance of tokens for access |  |
| ***Support*** |  |
| There is support if needed from an organization |  |
| There is a forum to ask questions |  |
| There is an example project to use |  |
| ***Reporting*** |  |
| Use and errors are reported and direct available |  |

**More resources for collecting review points:**

* Online resources
  + http://theamiableapi.com/2012/03/04/rest-and-the-art-of-protocol-design/
  + https://github.com/WhiteHouse/api-standards
  + http://lambda-the-ultimate.org/node/3067
  + http://www.mcdowella.demon.co.uk/ApiDesignChecklist.html
  + https://mathieu.fenniak.net/the-api-checklist/
* Good book
  + http://shop.oreilly.com/product/0636920021575.do
  + http://ederandresan.blogspot.nl/2012/05/my-review-of-rest-api-design-rulebook.html