

A	B	C	D	E	F	G	H	I
ID	API type	Phase	Specific activity	¿Artifact, tool, technique, guideline?	¿Affects usability?	Name	Description	Notes
1	Web services	Not mentioned explicitly	Interface description, documentation	Artifact	Not mentioned explicitly	Web Services Description Language (WSDL) documents	Documents that are supposed to describe the API. Service descriptions are mostly brought down to Earth using the Web Services Description Language (WSDL), an XML dialect sponsored by the W3C. These are crucial in enabling third parties to make sense of services and access them.	Las descripciones juegan un rol importante en el descubrimiento de servicios.
2	RPC and SOA web services	Not mentioned explicitly	Interface description, documentation	Artifact	Not mentioned explicitly	Web Services Description Language (WSDL) documents	WSDL is the basic unit of RPC web services.	WSDL es la unidad básica de los servicios RPC
3	APIs in general, but includes API RESTful example	Requirements, design	Goals identification Usage scenarios identification Resources identification Resources' actions identification	Artifact, technique	Not mentioned explicitly, but it's from a consumer's perspective	API's goal canvas (a table)	To collect users need. To identify an API's goal. To know who are the users, what they can do and how they do it.	Table matching the process we have discovered: <i>Whos</i> where you list the API's users (or profiles) <i>Whats</i> where you list what these users can do <i>Hows</i> where you decompose each <i>what</i> in steps what <i>Inputs (source)</i> where you list what is needed for each step and where does it come from (to spot missing <i>whos, whats or hows</i> ) <i>Output (usage)</i> where you list what is returned by each step and how it is used (to spot missing <i>whos, whats or hows</i> ) <i>Goals</i> where you reformulate explicitly each <i>how + inputs + outputs</i> in a concise way how inputs outp
4	APIs in general, but includes API RESTful example	Requirements	APIs goals identification	Technique	Not mentioned explicitly, but it's from a consumer's perspective	Questionary	To identify an API's goals, list what users can roughly do and decompose these actions in steps by examining how they do it.	Answer the following questions: What users can do? How they do it? What do they need to do it? What do they get in return? Where does the inputs come from? How does the outputs be used?
5	APIs in general, but includes API RESTful example	Design	Identification of resources and it's actions	Guideline (cheat sheet)	Not mentioned explicitly	REST API and HTTP cheat sheet	A resume of how to transpose API goals into REST resources and actions and represent them using the HTTP protocol.	
6	APIs in general, but includes API RESTful example	Design	Resources design	Artifact	Not mentioned explicitly	Table of resources	Describing concepts and their properties, gathering the characteristics: name, type, if it's required, adding some description.	
7	APIs in general, but includes API RESTful example	Design	Parameters and responses design	Artifact, technique	Not mentioned explicitly	Ad hoc diagrams of responses and parameters	A same concept may have different representations in the responses of an API depending on the context. An action's response may or may not return the exact concept (or resource), its properties may or may not be adapted (renamed, removed, reorganized). Like for responses, a same concept may have different representations in the parameters of an API depending on the context. A parameter must only provide the needed data but not more. It must not include data that are exclusively handled by the backend.	
8	APIs in general, but includes API RESTful example	Design	Verifying parameter's data	Artifact, technique	Not mentioned explicitly	Flowchart for checking parameters data sources	More detailed view of the input parameters. We must verify again that all needed data can be provided by the cosumer. Consumers must be able to provide all of a parameter's data either because they know the information themselves or because the retrieve it from the API. If a data cannot be provided, it can be the sign of a missing goal or provider's perspective.	
9	APIs in general, but includes API RESTful example	Design	API documentation as a description	Artifact, guideline	Not mentioned explicitly	API description, following a premade format like the OpenAPI Specification (OAS) for REST APIs	When it comes to describe precisely a programming interface and especially it's data, it is more simple and efficient to use a design tool such as an API description format. It is basically a text file containing data describing an API. Provide some basic documentation in the form of descriptions. Such structured and standardized description can be used in many ways and be of great help when designing an API. The OAS is a standard and programming-language agnostic REST API description format. Formerly known as the Swagger Specification. An OAS document can be written in YAML or JSON.	Son útiles desde el diseño hasta la implementación. Es simple y conveniente. Es una manera amigable de compartir la descripción. Útil cuando se quiere obtener retroalimentación.
10	APIs in general, but includes API RESTful example	Design	API documentation as a description	Tool	Not mentioned explicitly	Editor for writing OAS documents	Editor wich handle this format, like the Swagger Editor (an open source project). Yon can use your favorite text editor.	
11	APIs in general, but includes API RESTful example	Design	API documentation as a description	Tool	Not mentioned explicitly	Editor for writing OAS documents	Editor wich handle this format, like the Swagger Editor (an open source project). Yon can use your favorite text editor.	





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39	Web APIs	Domain Analysis (1st phase of the suggested methodology)	Design of resources	Technique, artifact	Not mentioned explicitly	A resource taxonomy for the given usage scenarios.	Shortlist the nouns that would make sense as resource, i.e. nouns for which it would make sense to call operations for create, read, update or delete.		
40	Web APIs	Domain Analysis (1st phase of the suggested methodology)	Design of resources	Technique, artifact	Not mentioned explicitly	State diagrams	The resources in the taxonomy have some state and during the execution of the app, the resource may change its state and transition into a new state. You can express the states and transitions in a state diagram		
41	Web APIs	Architectural design (2nd phase of the suggested methodology)	Verification of the "Architectural design" phase	Technique	Yes	Simulation	A simulation should be used at this point to quickly verify the effects of the architectural and detailed design decisions. The following questions might help: Is the API still easy to use? Is it still a small, agile and usable API or did we create a monster API? Does this API help us to realize our usage scenarios? Does the API follow the architectural style selected?		
42	Web APIs	Requirements (not mentioned by the author)	Requirements specification	Technique, artifact	Yes	Use cases definition with user stories	Use cases are vital throughout the process of creating an API. Once you've defined the business value you want to address with the API and how you're going to measure success, the resulting use cases drive the rest of the process.		
43	Web APIs	Design (not mentioned by the author)		Technique	Not mentioned explicitly	Ad-hoc diagrams for the client and API interaction	To represent the complete set of interactions with the API system.		
44	Web APIs	Design (not mentioned by the author)		Technique	Not mentioned explicitly	API calls table	To show each call to the API and a description of what it does.		
45	Web APIs	Design (Schema modeling)	Interface description	Guideline, technique	Not mentioned explicitly	Schema modeling	Contract describing what the API is, how it works, and what the endpoints are going to be. Think of it as a map of the API, a user-readable description of each endpoint, which can be used to discuss the API before any code is written. Like a functional specification, this document describes how the API will behave.		
46	Web APIs	Several phases, since it's a methodology	Includes: creation of the functional specification, schema model (design document), acceptance criteria and unit tests, development iterations.	Guideline (methodology)	Not mentioned explicitly	Design-driven methodology	You'll create your functional specification document. In parallel or shortly after, the schema model is created with use cases. Before developing, you create acceptance criteria for developers to work against along with the unit tests. Only then do you start with development. Instead of developing the entire system at once, you can parallelize and have different engineers working on different use cases so that they can deploy the API. 1		
47	Web APIs	Planning, requirements	Specification	Artifact	Not mentioned explicitly	Functional specification	It will help the developers and other stakeholders understand the goals of the project. Answer at least the following questions: what problem is the project solving? What is the business value? What are the metrics and use cases? What resources are needed or available? what does "done" look like? what could go wrong?		
48	Web APIs	Design	Verification of design	Technique	Yes	Acceptance tests and use cases	Acceptance criteria are critical to verify that you're making the use cases as easy as designed and not getting off track.		
49	Web APIs	Not mentioned explicitly	Defining the value of the API	Task	Not mentioned explicitly	Determining business value	Understanding and communicating the APIs business value to your company, including goals to measure success, is critical.		
50	Web APIs	Not mentioned explicitly	Defining the value of the API	Task	Not mentioned explicitly	Establishing metrics	Determinate how to measure the success of your platform.		
51	Web APIs	Not mentioned explicitly	Interface description	Tool	Not mentioned explicitly	Schema modeling frameworks: RAML and OpenAPI (previously Swagger)	These are two of the main schema modeling frameworks.		
52	Web APIs	Not mentioned explicitly	Documentation	Artifact	Yes	Documentation: Reference documentation, workflows and tutorials	The second pillar of developer experience is documentation. Documentation covers a wide range of different methods to help developers understand the platform, work with it, and succeed in integrating the API into their own system.		
53	Web APIs	Requirements, design	Recommendations	Guideline	Yes	Best practices	Building an API is easy. Designing a usable, flexible, long-lasting API is hard. The author presents a set of guidelines to consider when designing a web API.		
54	Web APIs	Design	Documentation	Tool	Yes	RAML and Swagger/OAI	As we start to plan our API, it's important to understand how our users will interact with the API and how they'll use it in conjunction with other services. Be sure to use tools like RAML or Swagger/OAI during this process to involve your users, provide mock APIs for them to interact with, and to ensure your design is consistent and meets their needs		
55	APIs in general	Design	Recommendations	Guidelines	Yes	Best practices for API design	Includes a set of best practices for several API characteristics, including consistency, good documentation, under stability, and some others.		
56	APIs in general	Design	Recommendations	Guidelines	Yes	Guidelines for API design	This manual gathers together the key insights into API design that were discovered through many years of software development on the Qt application development framework at Trolltech (now part of Nokia). When designing and implementing a library, you should also keep other factors in mind, such as efficiency and ease of implementation, in addition to pure API considerations.		
57	RESTful APIs	Design	Recommendations	Guidelines	Yes, some of the practices are focused on usability issues	Best practices for RESTful web services during design	Best practices for RESTful web services will be presented in detail so that they can be easily applied during the design phase of such web services.		
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