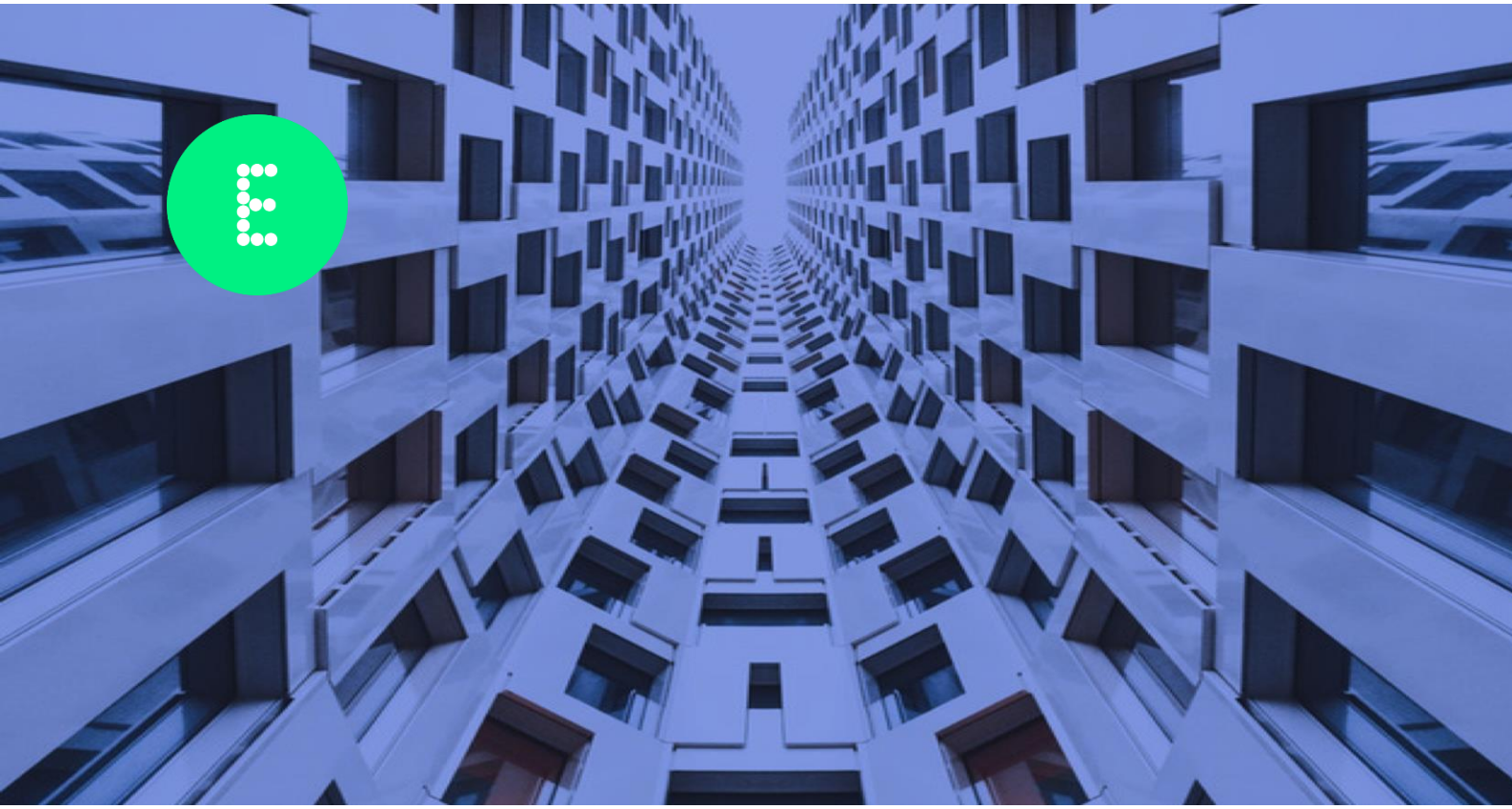

Rocket DAO

Expert Platform

Project evaluation methodology for startup technology level

Methodologist:
Koltun Henadzi

Evaluation section:

Technology

1 N.B. from author

I believe, that there are no good or bad, new or old, expensive or cheap etc. technologies. Every technology can be useful for some cases, can fit perfectly for others and can be even dangerous for some projects. It means that an expert should decide in every particular case if shoosen technologies are good choice or bad, if project developers are moving in right direction or should step back and look for alternatives. Expert should start from the very beginning, understand well use cases and architecture, possible problems and constraints, also benefits and possibilities. I admit the right of each expert to have his own criteria at each level for evaluation methodology, but for simplicity I'll leave a few tips that seem important to me. As data accumulates and the methodology develops, the criteria can be improved and, I hope, in the future we will be able to make the assessment less subjective and more expertly independent. Today, however, you will have to spend more time figuring out the quality of the materials provided and their real meaning. I ask you to note your thoughts and give the projects a full and objective feedback. This will give them the opportunity to improve the projects or cause a dative discussion about the technologies for their projects. In any case, it should be a useful work and I thank you for your participation. I will also be grateful to you for any comments regarding this methodology that you can send directly to me.

Manual: On each level (step) expert should decide, if project presented good enough materials for this level. An expert should move “step by step” on the following levels on this section. If project receive mark 0 on this step (it means that expert can not agree with the arguments and does not count the provided materials convincing enough), expert should stop evaluation and count sum of points.

2 Step 1

Step 1: The description of the algorithm is presented, the protocols of interaction with external data sources and oracles look thought out and real.

Tips:

- A formal description of the algorithm is presented;
- The algorithm can describe a smart contract;
- The algorithm looks reasonable and can be implemented programmatically;
- Theoretically, the algorithm is able to provide manual execution;
- The form of submission of the material is simple and understandable to the nonspecialist.

Yes (=1) or No (=0)	For comments from an expert

3 Step 2

Step 2: The architecture of the project is thought out.

Tips:

- A formal architecture of the project is presented;
- The architecture looks reasonable and can be implemented in practice;
- To build this architecture there are enough resources (theoretically);
- For each part of the architecture, experts can be recruited to work on the project.

Yes (=1) or No (=0)	For comments from an expert

4 Step 3

Step 3: A specification for the system is presented (it is described how it should work).

Tips:

- In presented specification covered all important use cases and features;
- Technical requirements are considered and described;
- The requirements are described clearly and prevent misinterpretation;
- The requirements reflect a sufficient number of interfaces, diagrams, tables of links and exceptions, etc..

Yes (=1) or No (=0)	For comments from an expert

5 Step 4

Step 4: The analysis of suitable technologies and their connections provided.

Tips:

- For every important element of architecture, use cases and features appropriate technologies are considered;
- Variants of connections between the elements of the system are considered.

Yes (=1) or No (=0)	For comments from an expert

6 Step 5

Step 5: Justification of the choice of technology is presented.

Tips:

- Alternative ways of realization of the declared functional are considered;
- Advantages and disadvantages of the technologies considered;
- The analysis is parametrized and formalized;
- The main and spare technologies have been selected and substantiated, the issue of technology interconnections

Yes (=1) or No (=0)	For comments from an expert

7 Step 6

Step 6: An independent expert conclusion has been obtained confirming the choice of technologies.

Tips:

- An independent expert conclusion confirming the choice of technologies is presented;
- The opinion of this expert or group is relevant;
- The rapture of the presented materials is beyond doubt, the author is not biased, his opinion is to listen.

Yes (=1) or No (=0)	For comments from an expert

8 Step 7

Step 7: There is evidence that the selected technologies ensure the completeness of the solution.

Tips:

- The prototype of the solution covering the specification was presented;
- Implementation of the declared functionality is possible with the help of ready technologies, between which a docking is available.

Yes (=1) or No (=0)	For comments from an expert

9 Step 8

Step 8: Confirmed the speed, resource capacity, availability (in terms of resources) of selected technologies for a specific application with specified characteristics.

Tips:

- The tests were conducted and their results presented;
- The required conditions are simulated in a synthetic way;
- The system really works and its characteristics can be measured and are close enough to the declared.

Yes (=1) or No (=0)	For comments from an expert

10 Step 9

Step 9: The safety of technologies and their connection for the case under consideration was proved.

Tips:

- The tests were conducted and their results presented;
- The required conditions are simulated in a synthetic way;
- The results of a third-party security audit are presented;
- Technologies are open and popular in use, their security is not questioned by the world community.

Yes (=1) or No (=0)	For comments from an expert

11 Step 10

Step 10: Selected technologies and their interaction are de facto world standards for solving similar problems.

Tips:

- Everyone knows that it is necessary to solve such problems just like this and for a long time it has been done.

Yes (=1) or No (=0)	For comments from an expert

Sum	For comments from an expert