CoinFabrik

Quality Assurance for Smart Contracts

Smart contract QA consists of **comparing the smart contract behavior against a set of functional specifications by methodically testing it**, to **detect and report errors** and inconsistencies under a variety of conditions.

This practice is performed by **QA specialists** and helps to generate enough evidence that the system works as expected.

Why?

FOCUS AND EXPERTISE

While programmers are focused on writing code and implementing features, QA specialists are **focused on testing code behavior**.

Having **formal training in testing**, they practice the craft of testing on a daily basis and are able to **research & fact-check** their work. Our team is dedicated to **continuous improvement** and staying up-to-date with industry **best practices**.

COST SAVINGS

An independent QA team can help to **streamline workflows and identify inconsistencies earlier**, leading to **cost savings**. Besides, QA specialists don't need to be skilled on smart contracts programming, which entails a benefit within the cost structure.
Thus, allocating a specialized QA team enables programmers to **focus on building features**.

UNBIASED

Human communication frequently involves inaccuracies, **misinterpretations**, and **simplifications**. When it comes to software development, having **different validators** for the same feature helps to **reduce this interpretation bias**.

With this purpose, our QA specialists write tests based on their understanding of the functional requirements **instead of taking the code as the source of truth**.

What?

Specialized QA **helps to build a maturer version of a product** and helps **iterations** to become **strong** and **relevant** in order to move project development in the right direction. QA is not just a picture. It goes **along with the project in all its phases**; it's aligned with the continuous delivery principle.

How?

Our first mission is to **fully understand our client business and the product needs**. focusing on product use cases.

QA specialists start writing tests **before having the code complete**. This helps to **shorten the process** and discover discrepancies earlier.

We work to **generate enough evidence** that the code is producing what the code is expected to produce. We develop a **testing plan** that involves not only the happy path but also a variety of border conditions, in order to visualize **how the system works on positive**, **neutral** & **negative scenarios**.

Usual deliverables are:

» Deep behavior specification (when not provided by the customer).
» Testing plan and testing cases.
» Detected issues with their corresponding status and follow-ups.
» Periodic quality status reports.

For further information about this service, please contact us using the following link

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