After reading other posts and lastly erayajk post about Aztec Technical Aspects I found the following questions can be valuable for devs coming from the community as me.

As I understood from the context,

Aztec allows developers to build privacy preserving smart contracts, ZK-Snark programming language, Noir.

After checking documentation and reading articles about Aztec I have following mostly architecture-related questions.

1. Why do we need barretenberg? What is its place in the project?

2. Why do we need noir? I know that it's a custom language made by the Aztec team for creating circuits but maybe showing its functionality inside the whole project will give more insight.

3. Why we are using typescript(not only) here?.

4. Is this package consists of most of the functionalities or why there are different languages there with similar rate?

TypeScript 53.5%

C++ 34.4%

Solidity 4.8%

Roff 4.0%

1. Do we have the picture overall design where I can see entry points and the flow between all of these components?

I am interested in smart contract vulnerabilities and the product itself

. I set up aztec-packages and barretenberg in my local, run tests successfully understood the role of Rollup, Decoder, and other few smart contracts functionalities but still not clear about product flow.