***Code Panorama - Summary***

1. ***Philosophy***

Code panorama is a tool that’s mostly meant to make overviews over code. It is generating a zoomed-out picture that contains all the code within a given repository, from all the files. It is language agnostic, meaning that it doesn’t care about the languages used in the repository. It does its job regardless.

1. ***Technology stack***

This tool was developed using Haskell for the server part and Elm for the web interface. Haskell is a general purpose, statically typed and purely functional programming language, and because of these characteristics it is one of the best tools regarding this approach for the server. Elm is declarative, domain-specific programming language, which makes it appropriate for the rendering of the actual zoomed out images, applying filters, and all the other features of the tool.

1. ***Key features***

The application allows for a selection of repositories, applying a collection of filters and also for overlaying, such that it enhances code visualization. It also supports custom overlays, which help when developing certain metrics or information.

1. ***Applications***

The app facilitates efficient code-review. It is also great for project evaluation, as it embodies the whole project under one single ‘view’, to call it like so. Educational grading is also one of the key points it provides, as it is an open source application and it allows for cheat-testing.

Through the overview, developers can have insights on their code quality, structure and potential issues.

1. ***Future plans***

The application plans on validating their efficiency claims, and gather feedback. Through their community, they can become better and plan on further improvements.