

Report

Team

Kristoffer Baardseth

Development

Development was done by single contributor. Developed in "relaxed" Incremental Cycle. Functionality listing: Take photo Display photo to bitmap Scale photo Remove color from photo Save photo Display Photo in gallery Github Integration

Extra: Bitmap .txt map

Problems: Got properly started too late, might've understood how to integrate Git functionality if I had started earlier.

Testing

Testing was done by "trial and error", no defined unit tests. Functions were tested one by one when implemented:

- Photo/Show bitmap
- Scale photo
- Remove color
- Save to location. Extra:
- Bitmap .txt map Application was made using "relaxed" incremental development style. Testing was as follows: Start development of function -> Partial function usable -> Test -> -(opt) fix errors -> Function usable -> Test -> (opt) fix errors -> Integrated.

Missing

The project is missing the GitHub integration, because of a failure to learn how to integrate it. This is mostly because I struggle to understand the use of OAuth in Android

Studio, and how to properly integrate it. The documentation does not fit my learning style at all, and this is something I need to work on.

Experiences

The easy part: Taking images, doing some manipulations and saving. While I struggled to fully understand it at first, once I got started it felt easy to make small changes and edits fast. This was what I was most interested in learning, and I am very satisfied with how it turned out. The hard part: Integrating the GitHub API to connect with a user and push to a repository proved a challenge. I struggled to understand the documentation, and I did not find examples or tutorials that worked for me. What I learned: Image manipulation, saving file to storage, updating gallery, taking photos and using them inside an application. Android Studio/code examples feels lacking and "all over the place". Usually finding a solution to a problem means finding many solutions and extrapolating a solution that fits your version.