



BA/MA/SA/Group/Lab:

## Android Smart Cloud Storage

You thought 16GB was enough storage when you bought your new phone, and now it isn't? Are you trying to decide which files to delete and which to keep? Or not delete anything, and instead move the files to the cloud? Are you doing this every week? What if we could automate this process?

Nowadays, many people are using at least one Cloud storage service like Dropbox, Onedrive or Google Drive. However, these services can easily offer up to 1TB of storage, so synchronizing everything to your phone is not an option. So in the end, we still have to manually pick which directories and files we would like to have synchronized to our phone. Furthermore, currently available backup applications either require root access, a separate PC program and/or do not offer the functionality we would like to have.

The goal of this thesis is to come up with an approach that automatically decides which files to keep on the phone and which ones to back up to the cloud, eliminating the need for manual storage-management. We already have some ideas for this topic and how it could be extended, but we would like to hear your ideas as well! If this sounds interesting to you, do not hesitate to contact us so that we can have a chat.



**Requirements:** Creativity and an Interest in Android development. Prior experience with Android programming is an advantage. The student(s) should be able to work independently!

**Interested? Please contact us for more details!**

### Contacts

- Pascal Bissig: [bissigp@tik.ee.ethz.ch](mailto:bissigp@tik.ee.ethz.ch), ETZ G95
- Gino Brunner: [brunnegi@student.ethz.ch](mailto:brunnegi@student.ethz.ch), ETZ G63

## Detailed Project Outline

We denote the following primary tasks mandatory (on the right side you find a rough estimate for the time that we allocate to the respective task):

- Requirement 1 (★)
- Requirement 2 (★★)
- Requirement 3 (★★★)
- Requirement 4 (★★★★)