# Back It Up – Data backup and recovery app

# Requirements

1. Use HDD connected to Raspberry Pi as a backup of my personal data.
2. Backup data from my computer specified folder to HDD.
3. Backup data from my mobile, all other mobile devices from home for backup
4. Ability to automatically backup data on regular basis (weekly, monthly etc.)
5. Once a month upload the data to google drive on a specified folder.
6. Intension is to have multiple copies of important data and pictures so that loss of one device does not result in loss of data. Something like a personal cloud.
7. User can have a look at the data and add or delete as desired.
8. Push notifications of some data is modified or added directly to raspberry pi.
9. Push notification is someone tries to access the data or folders where the data is stored, this would cover the security part of the application.
10. Push the added file from Server(pi) to google docs once a month or on click of a button

# APIs

* Add data: It would be an automated process at this point.
* Delete data
* View the data on central server (Raspberry Pi in this case)
* Add folder to google drive
  + Do not copy the existing files twice
* View Data from Google API drive
* Calculate the free space: automate alerts if remaining space is less than 1 GB.

# System Design

