# AUDIT CHAIN AMOS PROJECT SS22 PROJECT SUMMARY

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| PROJECT NAME | Audit Chain |
| PROJECT MISSION | The mission is to deliver a MVP of a audit-proof recording of file system events to Grau Data. For this purpose there is a central event queue, which receives events from a producer and provides them a consumer, which is built on a underlying blockckain data structure. Finally, the event will be copied in a second consumer and will be deleted from the event queue. |
| INDUSTRY PARTNER | GRAUDATA |
| TEAM LOGO | Logo  Description automatically generated |
| TEAM PHOTO |  |
| PROJECT SUMMARY | Our project is developed following a dependency structure, typical of the audit chain module.  The main idea is that events of any kind, like IoT, file systems and measurement loggers should be transmitted securely via the network.  There is a central event queue, which records these events and uses them for further steps that would involve third parties, so consumers.  There is a central event queue, which records events and uses them for further actions. Consumers can approach the queue, in order to get the events and work with them accordingly. Events are recorded serially and the central event queue is transmitted via the network queue. In order to define terms, we could define three main characters:   * **the producer**: who is the creator and sender of the events * **the queue:** the middle ground where events are stored and safely shared * **the consumer**: who takes events from the queue in order to perform further actions with them (that are not of interest in our application).   JAVA was used as main programming language and Python was used for the implementation of GUI. In addition, we implemented the Docker, RabbitMQ and Maven. To test our code, we used JUnittest. |
| PROJECT ILLUSTRATION |  |
| PROJECT REPOSITORY | <https://github.com/amosproj/amos2022ss02-audit-chain> |
| ADDITIONAL INFORMATION | Our team consisted of 7 Master students, 2 Erasmus undergraduate students and our industry partner was GRAUDATA. By the end of the Sprint-08 we had already reached our main goal and we decided to add some additional features in our project! |