**Week 6: Risk Assessment & Security Concerns**

**Deliverable:**

* Conduct a **risk assessment** of IT security in the company.
* Identify **potential vulnerabilities** (cybersecurity threats, data breaches, compliance risks).
* Research **security best practices** for similar organizations.

**Outcome:**

* Understanding of **risk management frameworks** in IT.
* Awareness of **legal and ethical responsibilities** in IT security.

Solution:

1. The risk assessment of IT security in duolingo.

* The physical threats of Duolingo: Duolingo store the data of users and lessons. The physical threats from physics like earth quake, hurricane may destroy the hardware storing the data and damage the data. This can leads to the long-time disconnection of Duolingo service, the lost of user data and the lesson data, which will significantly reduce the user stickness, and the reliability of Duolingo. Furthermore, Duolingo may face the increasing costs of redesigning the course, rebuild the data storage infrastructure and the potential lawsuits from users.
  + For example, **the Strasbourg Fire in 2021** made 2 data centers of OVHcloud badly damaged, which leaded to the disconnection of websites for about 3.6 millions and the lost of data. As a result, OVHcloud was subject to compensation claims exceeding €10 million and subsequently invested €30 million to rebuild the data center.(<https://www.computerweekly.com/news/252520844/OVHCloud-facing-client-compensation-class-action-claim-of-10m-over-March-2021-datacentre-fire>)
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