

School of Computer Science

Data Management in Fulfilment of

DATA9911

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Degree: TU060/1

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**Date: 2020/11/09**

**Introduction**

The product/service picked is apples MacOS and its wider app store ecosystem. This is more so to point at the legal concerns that apple addresses on its devices that are introduced through third party apps. Google’s play store takes three-seven [1] days to review apps meanwhile apple takes one-two [2], this is in order to review whether apps are compliant with their respected user guidelines. There is a significant difference in time investment considering that apple is viewed as a pioneer in data privacy, this is a good learning opportunity to see potential inconsistencies in practice meanwhile review industry standards.

Companies like Facebook have gone unchallenged with unethical use of data and data manipulation in the form of psychological experiments on users. Apples update [3] to their operating system will notify users about their data being collected. This will push the conversation to the forefront of people’s day to day as before this it didn’t seem like a popular talking point amongst the public.

**Data life cycle**

Apples MacOS is an operating system that supports Apples other products, which in turn collect user data. How and what data is collected is illustrated on apples privacy page, the kind of data collected and used is dependent on what services one uses and how they interact with the product.[4]

**Data creation**

Most data created is manually entered by the user, such as billing information, account details, age. Automated data collection only kicks in when a user decides to use some of apples other products and decides to opt in their financial planning apps, in that case they must provide consent before use etc. [4]

**Data storage**

Apple uses administrative, technical and physical safeguards to protect personal information. [6][7]

**Data Usage**  
 Similar can be said about health tracking apps [5] it not only collects info you’ve entered but also your medical history information, sensor information such as heart rate, technical data that “does not permit direct association with any specific individual” according to the policy. The info is used to support the studies, develop health related products or reports with anonymized data. Alternately if data is used for other studies the end user will be asked for permission.

**Data Archival**

**Sent out an email to apple asking about this process.**

**Data Disposal**

Apple retains personal data only for as long as needed to fulfil the purpose it was collected for.[8] The method isn’t necessarily specified.

**Publicly available data governance**

Apple states that they use “industry-leading” consent mechanisms, I assume they refer to the use of machine learning systems for this as later referenced in their document. Which allow users a choice whether they want to share data such as their location, reminders, health and the list goes on. This automated system would explain their faster turnaround time in reviewing apps and how they use data etc.

Apple then explains how many teams are involved in protecting customer and employee data, such as a senior director that directly reports to apples general counsel along with legal and engineering teams overseeing how data is used and when used that it’s for its intended legal purpose.[9] Assuming that this approach is followed as strictly as its expressed then it’s a solid process.

Following that data undergoes review periods that ranger from one to two years depending on the potential risk involved.[9]

**Conduct first principal ethical test**

Does it preserve or enhance human dignity?

What is good is the section on transparency and communication where apple cites their transparency report among others.[11]

Does it preserve the autonomy of the human?

Apple definitely does try to put what they have at the forefront of their privacy governance page with a link to their human rights policy which outlines company procedures.[10] Having said that they would have to uphold these values regardless.

Is the processing necessary and proportionate?   
There isn’t a way to completely validate this since this would be internal information, from their online documents consent is asked for user data and if it’s needed for research etc the end use is the notified and asked for consent again.

Does it uphold the common good?  
Publicly Apples has adequate procedures dealing with users requesting or reporting privacy complaints.[9] Apple also has a statement that they do not provide user information to any third parties. Apple deidentifies all data [9] meaning all personal elements, IP address must be removed.

Does the outcome violate any of these four points? If yes how could you

**N/A**

Mitigate any ethical risk?

Data undergoes review periods that ranger from one to two years depending on the potential risk involved [9] on top of periodic reviews and updates of their privacy policies.[10] Routine post-mortems are evoked when a data security incident occurs with dedicated teams assigned.[9] This is a general process with any indecent employed at all companies of apples reach.

**Recommendation on how the company can be improved**

**Summary and reflections**

What have you learned (250)

• Present recommendations on how the company’s approach to data

governance, data privacy and data ethics could be improved or clarified

based on the first principles ethics assessment that you conducted [500

words]

# References

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