



## Is it Schrödinger's cat?

Nowadays, an increasing number of pets have an RFID tag placed under their skin. The tag contains an identification number that is mapped to a database entry. The entries contain information about the ownership of the pet and additional information such as the history of vaccinations. More innovative uses of the tags include pet doors that require a specific tag to open to ensure that only the right pets can enter the house. However, the current solutions require dedicated hardware to read the tags and for example after an unfortunate roadkill, the driver has to take the pet to a vet to read the tag before the owners can be informed. In addition, the services are private and even if someone would have an RFID reader, they could not access the information connected to the identification number.

The newest smartphone models come with RFID readers and therefore an extension from the dedicated hardware to everyday devices is at hand. In addition to simply implementing the existing ideas to smartphones, other sensor data gained while reading can be taken into use.

**Requirements:** Good programming skills (preferably in Java) and some experience in Android programming are advantageous. The student(s) should be able to work independently on this topic.

### Contact

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