a sleep monitoring system called **Sleep Panda**

**LOGO**, **lovely sleepy Panda**, If you don't **sleep regularly** you will have **dark circles under your eyes** like a panda. **SP**

based on **Raspberry Pi 4b**, uses a variety of **sensors** to collect sleep data from users

camera observe your sleeping position，Photoelectric and temperature，

If you're **snoring**, the microphone will work.

After that，these data will be analyzed by **DSP, CNN** and **other algorithms**. It will generate a **daily sleep report** for the user. Like this, You can see The time you **go to sleep and wake up.** And, after **systematic analysis,** we have **classified sleep states into deep sleep, light sleep and awake.** You can find them all on this report. At the same time, you can **share the report with your friends**. So Usage，When one night your boyfriend says：，I’m so sleepy, I’m going to bed. Even though it was only 9pm, BUT okay. Then the next day, you check his sleep report and find out that his real bedtime is 3am You know what you'll do.

In addition, we have other functions, such as alerting when when high body temperature is detected, playing sleep-aiding music when falling asleep, etc.

Big Plan，Virtual Zoo，As long as you sleep on a **daily schedule**, you will receive a **virtual pet**, which could be a kitten or a puppy or any other animal you like. You can even **swap your pets** with your friends. **Sounds difficult**，**Try our best**

**Good luck，Thanks**