

SMART DESKTOP ORNAMENT



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GROUP 5

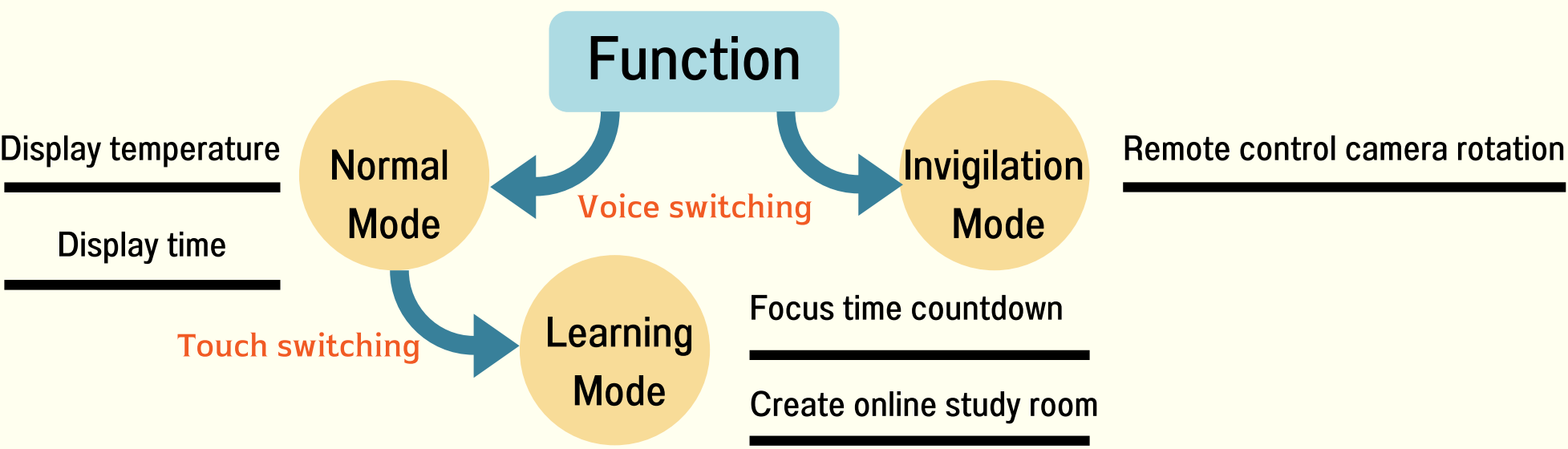
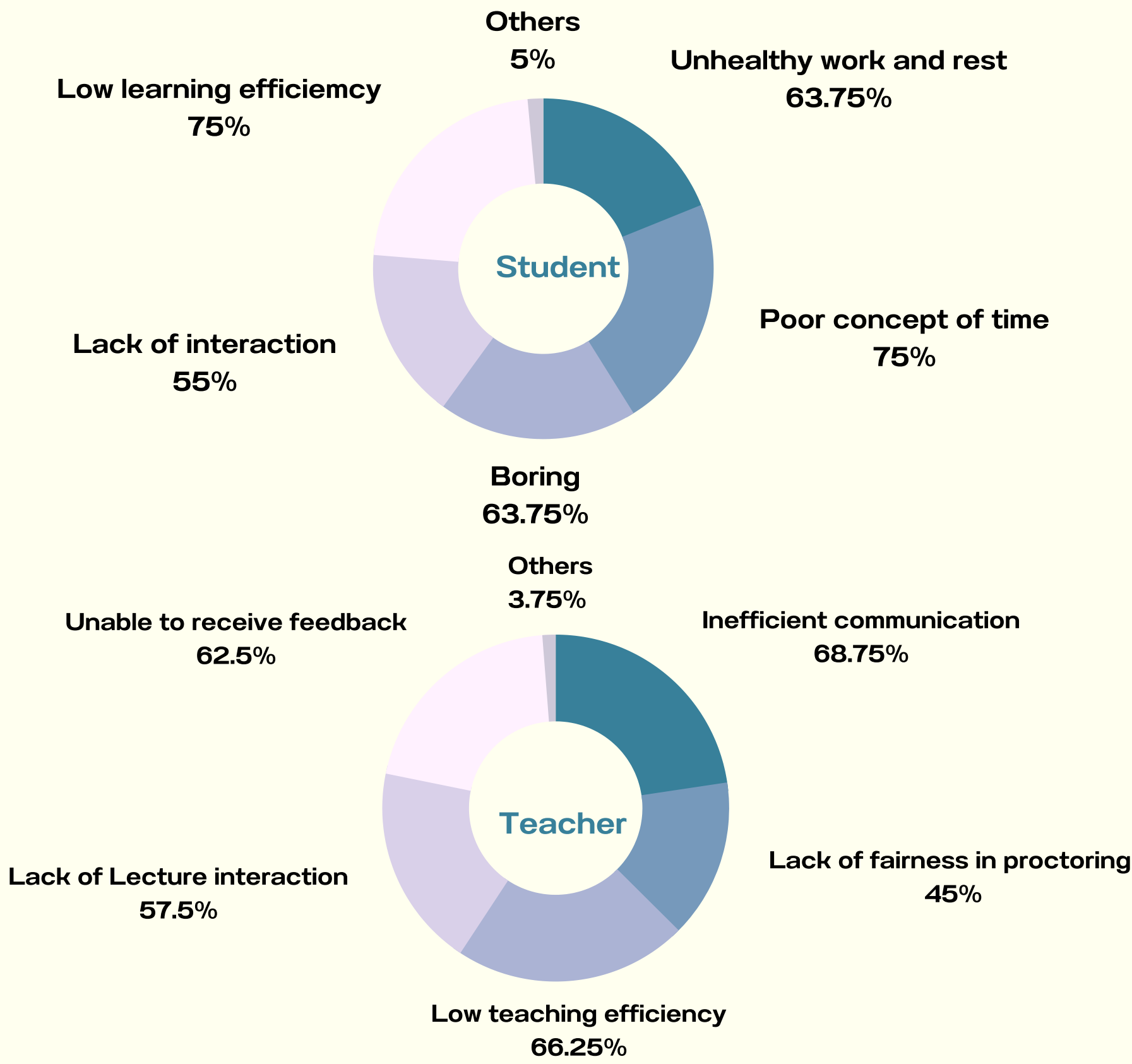
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Yuxin Qian	1930038
Siqi Chen	1931101

MEC202 INDUSTRIAL AWARENESS ANDGROUP PROJECT

Background & Introduction

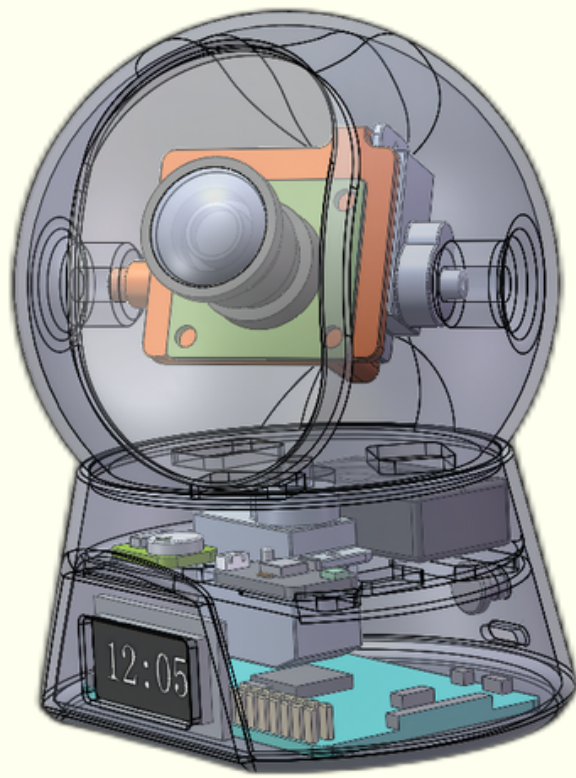
Due to the repeated outbreaks of the COVID-19, in order to protect health and safety of public and prevent a large-scale outbreak of the epidemic, most schools carry out online teaching, and some companies also implement online office.

Therefore, after interviewing many students and teachers, we found out the common problems of online learning, and proposed a desktop smart gadget product with the following functions for invigilation problems, learning efficiency problems, and communication distance problems and so on.



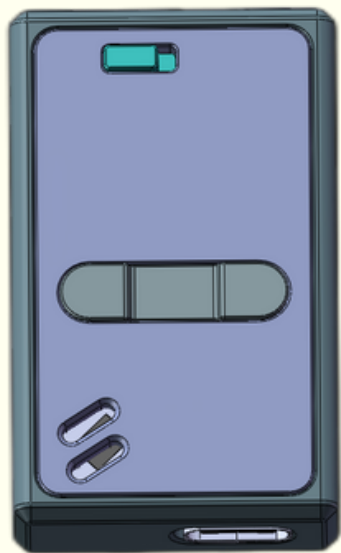
3D Model & Physical model

★ Desktop Ornament

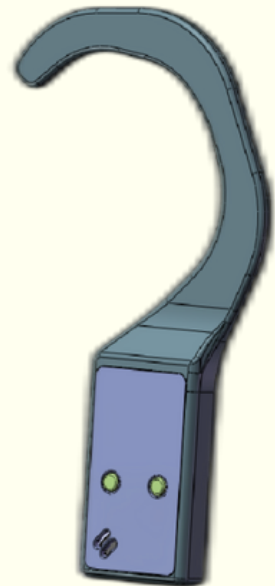


★ Remote Controller

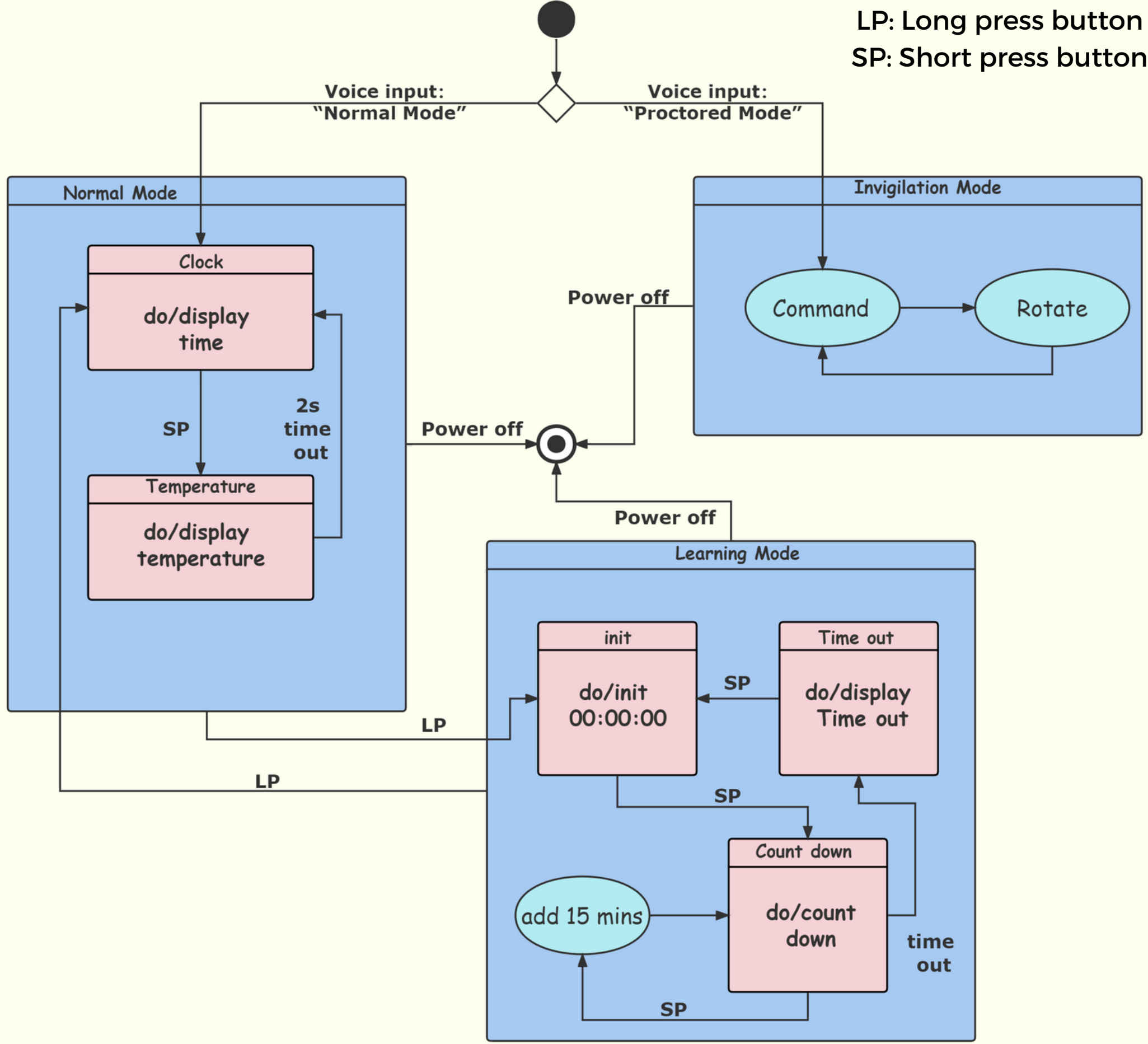
Handheld



ear-mounted



User Operation Guide



User Feedback

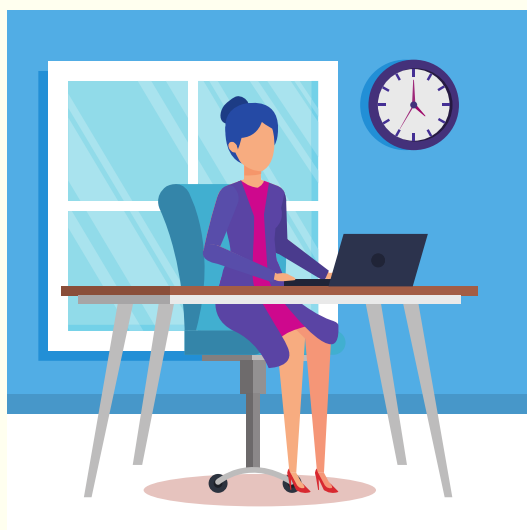


With the continuous extension of online teaching, we did encounter many difficulties. The Pomodoro function of this device can help us improve study concentration and efficiency, and the remote camera function can help students who study hard to get fair in the online exam.

Keeping everything under monitoring is a challenge in online invigilation. Developing an auto-tracing camera is an excellent and practical solution. It drastically improves the exam fairness. It, in turn, could support us to obtain the real feedback from online invigilation. To promote mass application, the team could improve the feasibility for connecting different computer operation systems.



Use in multiple scenarios



Online Invigilation



Online Study Room



Online Meeting

Contribution of each member

Member	Contribution
Wenbo Yu	Simulation of Pomodoro and camera.
Jingyi Wang	Simulation and Physics model of remote controller.
Nuo Chen	Physics model of main part. 3D Model.
Yuxin Qian	Simulation of Temperature disply. Video.
Siqi Chen	User research, user feedback, poster. 3D Model.

