

Cross-State Educational Robotics Implementation: Practices and Challenges in Australian Case Study

Young people, when creating a social media account, usually fake their age, as they tick the 'Over 18' box. However in late 2024, the Australian government passed a new law, which stated that there would be a minimum age of 16, when accessing online social media networks, like Snapchat, TikTok, Facebook, Instagram, X and many others. This bill emphasises the need for social media platforms to implement reasonable measures to ensure safe environments for all users, especially young children.



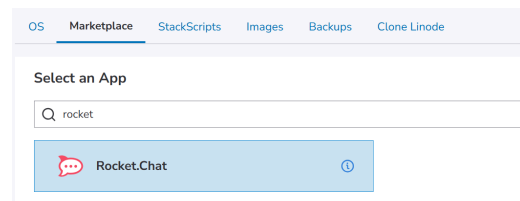
Commercial platforms, like Discord, often face restrictions in schools due to concerns about online safety, data privacy, and appropriate boundaries between children and staff. Discord, although being a general purpose chat platform, may expose students to harmful or explicit content that is not suitable in a learning environment. It lacks robust content filtering, making it harder to control what students see and access.



The eSafety Commissioner's guidelines significantly influence school IT policies by providing a framework for online safety education, and by encouraging a whole-school approach to online safety. The eSafety Toolkit for Schools and the Best Practice Framework for Online Safety are key resources that schools can use

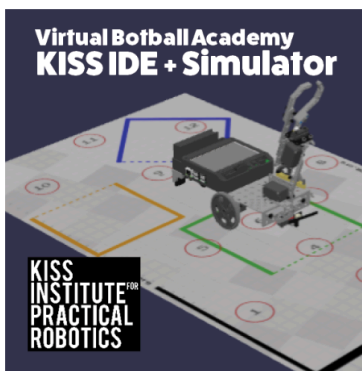
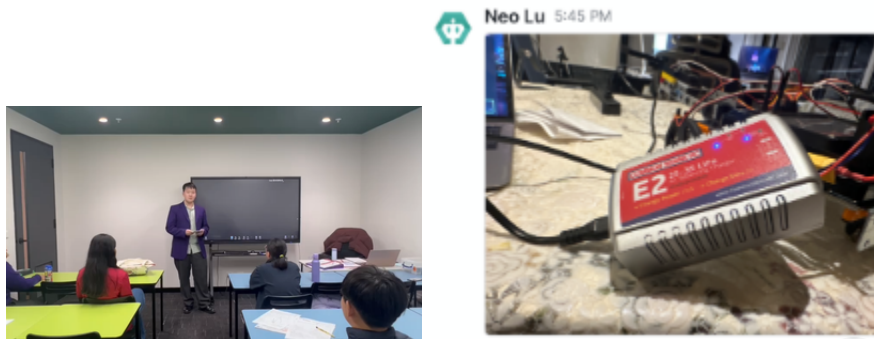
to develop effective policies and procedures. This framework provides a consistent and national approach to online safety education, and the eSafety Commissioner emphasises the importance of considering students' rights and needs in online safety education, ensuring they have a safe online experience.

Rocket.Chat is a powerful open-source team communication platform, and aligns better with compliance or security requirements in a regulated environment. Linode Marketplace simplifies the deployment of Rocket.Chat, as it's a one-click installation. These components are set up automatically: compute instance (Linode), Rocket.Chat Application, MongoDB Database, Reverse Proxy + SSL and Domain + DNS. After deploying it, it can be shared with multiple users, and as an admin, you can create accounts for your users, and have a chat platform which everyone can use. With Rocket.Chat, you have full data ownership and privacy, customisation and extensibility, cost structure, compliance and security, integration with internal systems, third-party app integrations, and mobile & desktop apps.

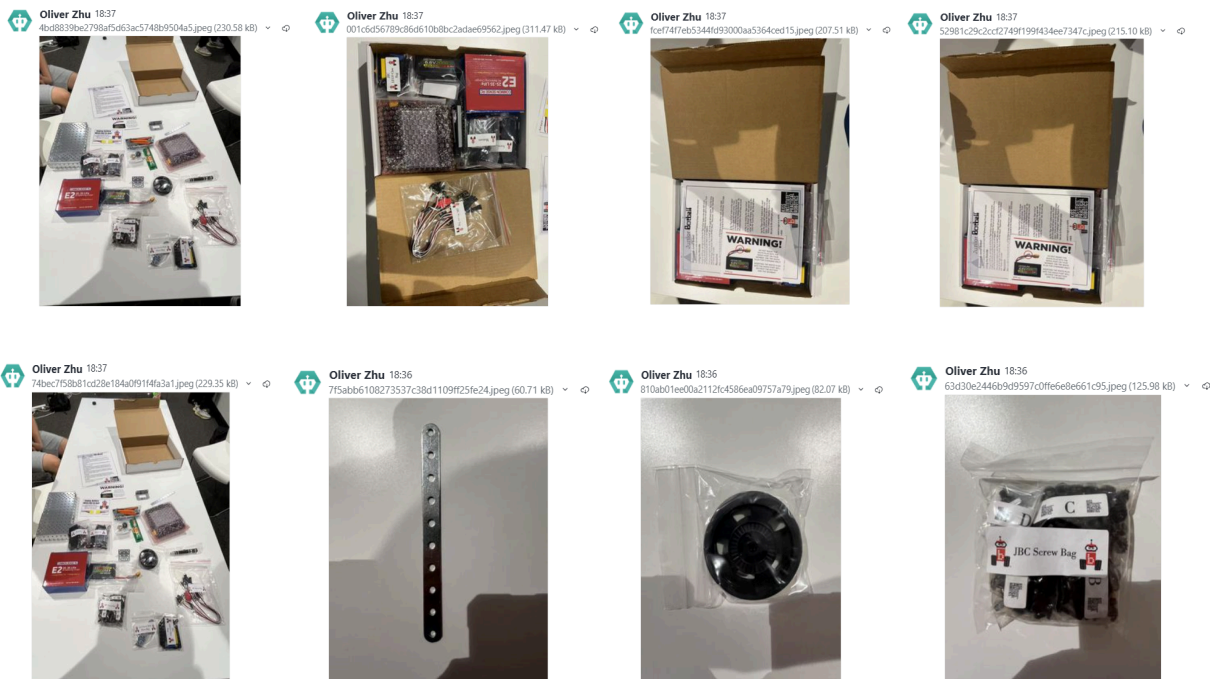


Rocket.Chat's End-to-End Encryption (E2EE) ensures that even if data is intercepted, it cannot be read without the decryption key, enhancing the privacy of sensitive information. Role-Based Access Controls (RBAC) allows administrators to define roles and permissions, ensuring that only authorised users can access specific information, further safeguarding data. Rocket.Chat is also ISO 27001 certified, demonstrating its secure management systems.

To connect our teammates across multiple Australian states, we have, as well as via Rocket.Chat, been making a website: <https://pybotball.org/>, where we add our contributions. Although we are so far away (over 850 miles), we are connected in so many ways.



Are you looking for a way to keep your student(s) engaged and interested in Computer Science through a virtual program? The Virtual Botball Academy includes access to a fun robot simulator that students can program from their devices to see a robot responding to their code in real-time on the screen!



Tutorial

- Basic Examples
 - Example 1 Moving Forward
 - What does code do?
 - Functions Used
 - Function Implementation
 - Tips for Rookie
 - Example 2 Going Backwards
 - What does the code do?
 - Functions Used
 - Function Implementation
 - Rookie Tips

Bibliography:

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