

# Secure Software Development (Computer Science) March 2022

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## « Collaborative Discussion 1: UML flowchart



[Pavendran Wimalendran](#)

### Initial Post

49 days ago

1 reply



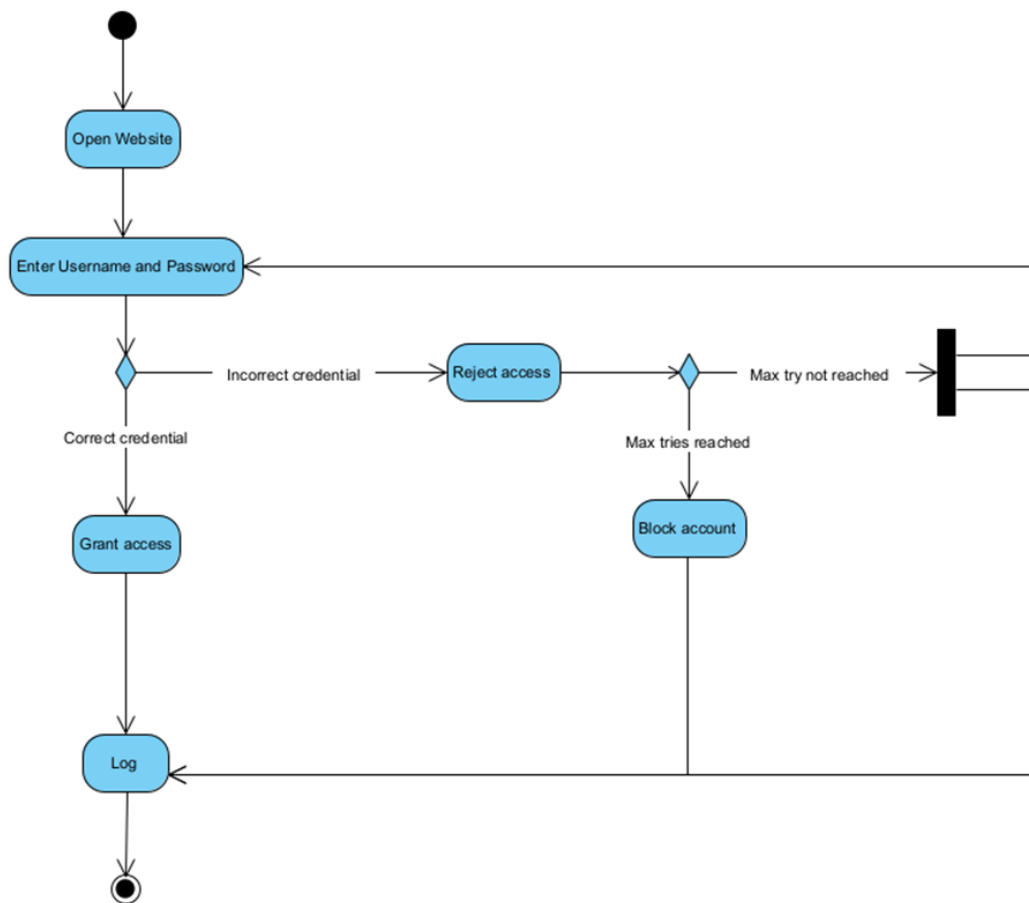
Last 44 days ago

Security logging and monitoring failures are one of the top 10 web application security concerns, according to the Open Web Application Security Project (OWASP) This category is designed to assist in the detection, escalation, and response to active breaches. Breach detection is unachievable without logging and monitoring (OWASP, 2021).

Insufficient logging, detection, and monitoring mainly occurs any time when auditable events, such as logins, failed logins, and high-value transactions, are not logged, warnings and errors generate no or inadequate log messages, logs of applications are not monitored for suspicious activity, appropriate alerting thresholds and response escalation processes are not in place or effective, etc. (OWASP, 2021).

The process of logging into a system is illustrated in the UML activity diagram below. If a user tries multiple username and password combinations and the application does not log these events with adequate detail and these logs are not monitored, this may lead to further breaches or allow a breach to go undetected (OWASP,2021).





References:

OWASP Top 10 (2021) OWASP top ten. Available from: <https://owasp.org/www-project-top-ten/>  
[Accessed 25 Mar 2022]

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1



Post by **Cathryn Peoples**

Re: Initial Post

44 days ago

Good work here, Pavendran, and a sensible conclusion reached that the failure to log breach attempts can potentially lead to unauthorised access of the system.

In relation to your UML model, however, on what basis can an 'account' be blocked if incorrect credentials have been entered and permission to access the system has not been achieved? What es-



entially will be blocked here?

Best wishes,

Cathryn

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