

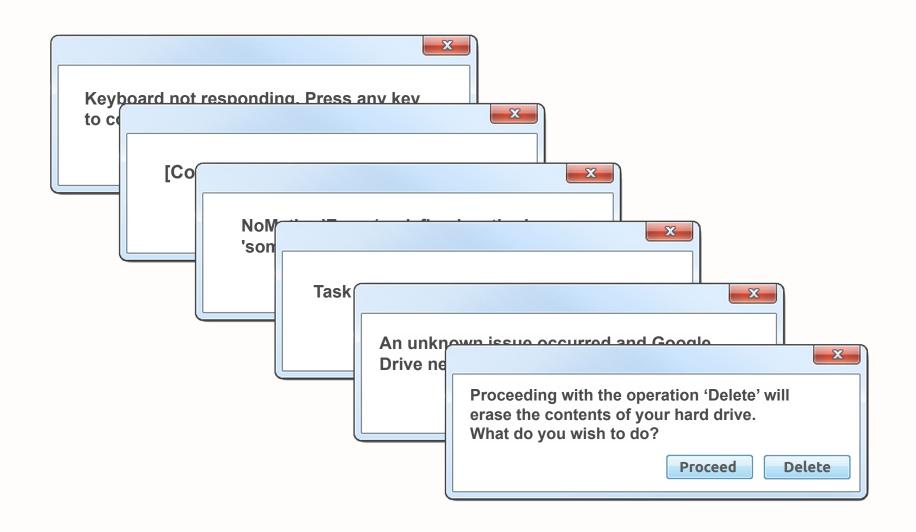
Deciphering alerts

Why is it so hard to make sense?

- Lena Nyström -



WHY IS THIS SO HARD??? Why do we still get...





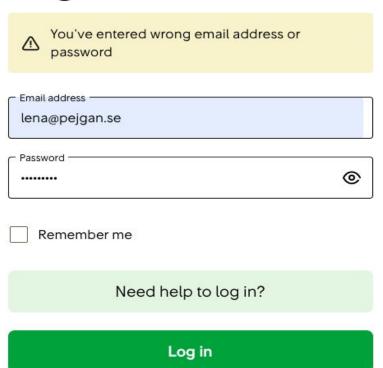
The way we write messages shows how we balance clashing priorities



Secure

Informative

Log in



Log in

Log in	
Need help to log in?	
Remember me	
⚠ Incorrect password format	500000
Password	Δ
Email address lena@pejgan.se	

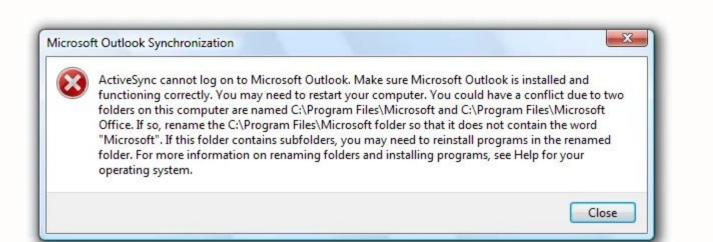
Too vague

Too detailed



Something happened

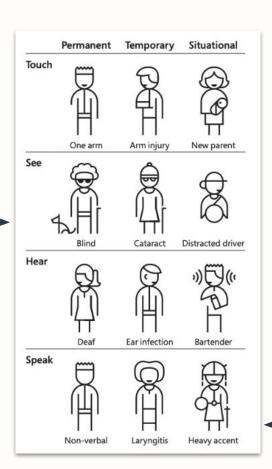
Something happened



Business specific and "correct"

Accessible for everyone

Building for screen readers and other tools



Clear, precise, simple language

User

Data & Technology

Frontend 1

Database & Beyond

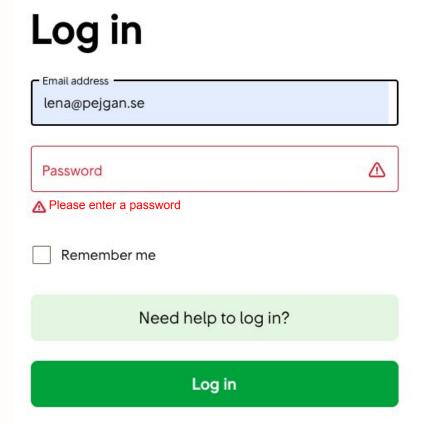


Messages from different parts of the stack have different style



Frontend

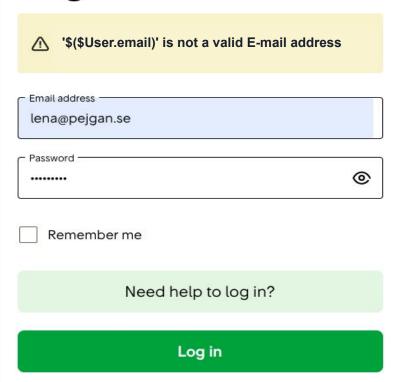
- + Friendly, guiding
- + "Real time"
- + Close to user
- + Sanitizing input
- Can get overwhelming
- Easy to bypass



Backend

- Formal, authoritative
- ⁺ On submit
- Close to the business
- Protecting against bad data
- Requires translation
- Breaks the flow
- Duplicated validation

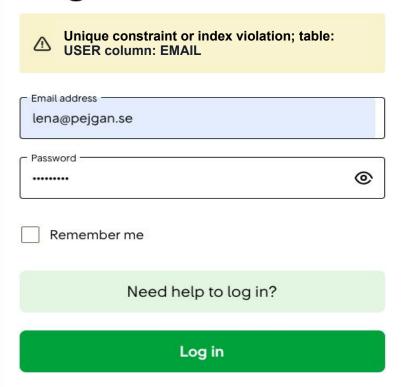
Log in



Data storage

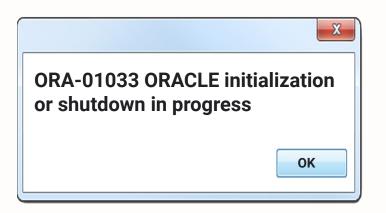
- † Technical jargon† On save/update/delete† Last line of defence
- Data integrity and quality
- Hard to understand
- Most of the context lost
- Domino effect

Log in



The Ecosystem

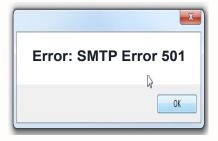
Servers
Operating system
Network & Infrastructure
External services

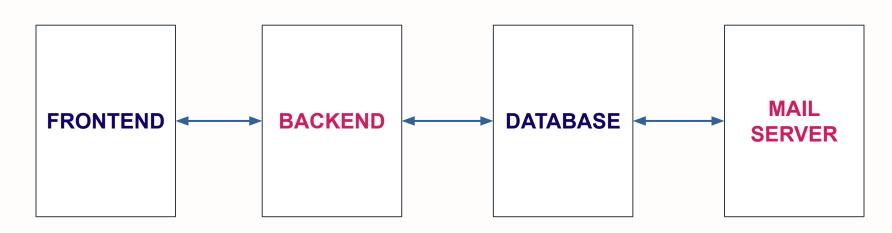












What looks like gibberish is really a cipher

You just need to learn to crack the code!

Availability



The server is unreachable at the moment

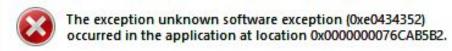
Authentication

401 - Unauthorized: Access is denied due to invalid credentials.

Bad Input



Unhandled



** Best practise **

Best practise ** It's all a matter of choice

Ask Questions!

How important is this feature?

How often does this happen?

Is this standard feature or unique?

Who are our users?

What's the potential profit & cost?



Call for Action! Challenge your default





Thank you!



in lena-pejgan-nystrom



http://www.pejgan.se/



Good resources

https://en.wikipedia.org/wiki/List_of_HTTP_status_codes

Falsehood programmers believe...

https://www.scaler.com/topics/types-of-errors-in-javascript/

https://dotnethow.net/exception-handling-in-csharp/

https://blog.hubspot.com/website/api-errors

https://www.smashingmagazine.com/2022/09/inline-validation-web-forms-ux/

https://en.wikipedia.org/wiki/SQLSTATE

https://en.wikipedia.org/wiki/List_of_HTTP_status_codes

Good resources

Accessibility

https://www.w3.org/ (especially the parts dealing with errors)

https://lsnrae.medium.com/accessible-form-validation-9fa637ddb0fc

UX/Guiding users

https://uxplanet.org/how-to-write-good-error-messages-858e4551cd4

https://developer.mozilla.org/en-US/docs/Learn/Forms/Form_validation

Security

https://owasp.org/ (especially the parts dealing with errors)