

From legacy to new the Anfield approach

simply brilliant thinkers making software brilliantly simple



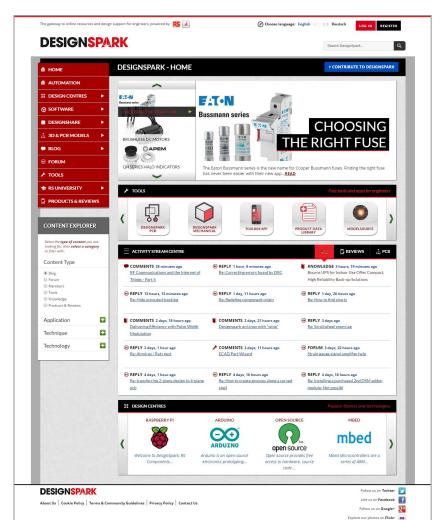


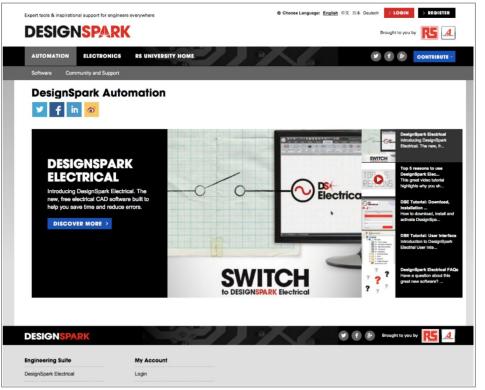
Ian Jenkins

Principal Software Developer Box UK Back in **October 2015** we were asked to undergo a complete **platform review** of the existing **DesignSpark** platform with a view of taking over development

DESIGNSPARK

- Provides free tools to help 'make those big ideas happen'
- Community site for engineers
- Allows engineers to share articles, ask questions, seek answers, follow topics they are interested in, and follow other engineers





Then we saw the code



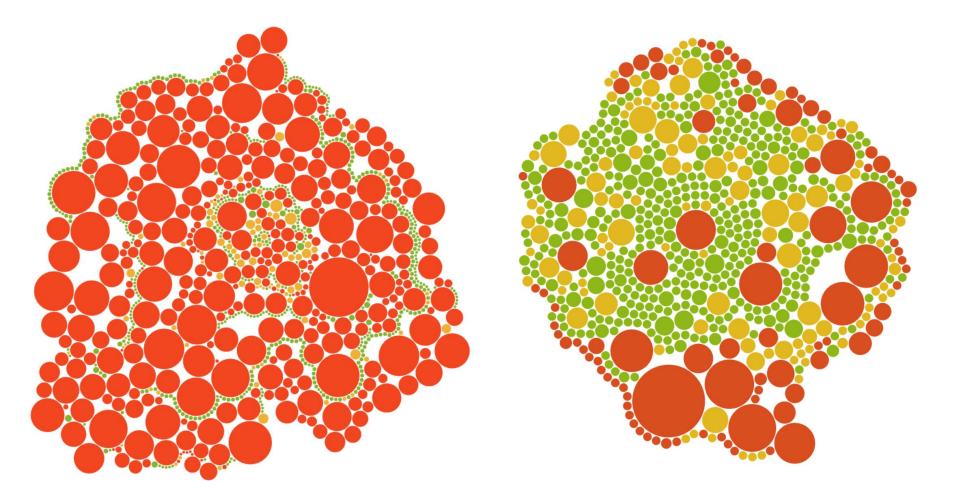
"It's not worth it mate, just tell them we'd

need to start again"

"Rather you than me"

"Run a mile"

"I wouldn't touch that with a barge pole mate"

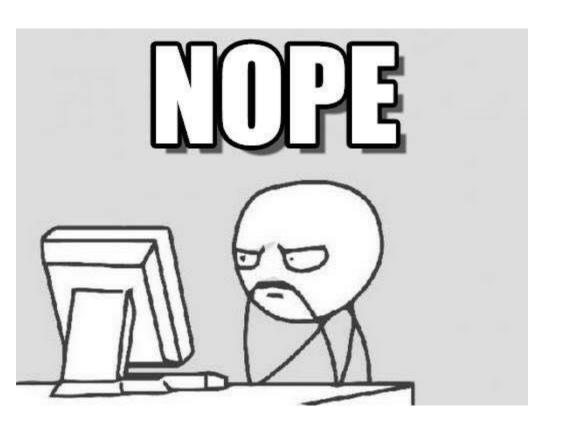


- Hodge-podge of various frameworks and libraries
- Major security concerns
- No tests
- No docs
- No standards

- Lack of coding standards
- Not using 3rd party dependencies in the appropriate way
- Lack of tests
- No docs
- Lots of debug code everywhere
- Custom framework

30+ years of technical debt

6+ months of technical debt



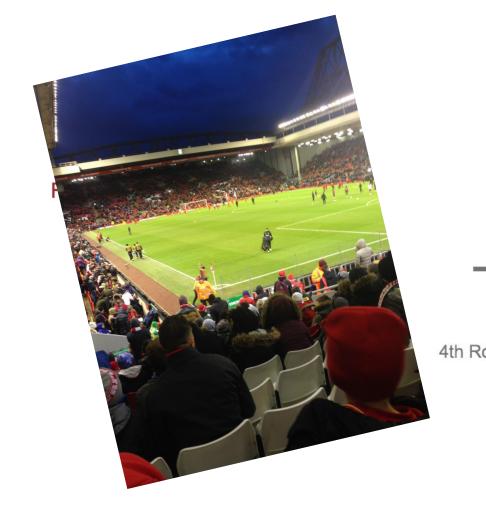
FA Cup · 30/01/16 Full-time

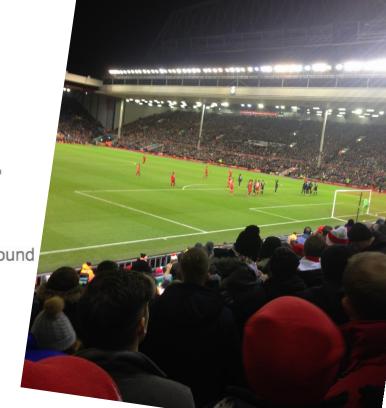


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4th Round





4th Round





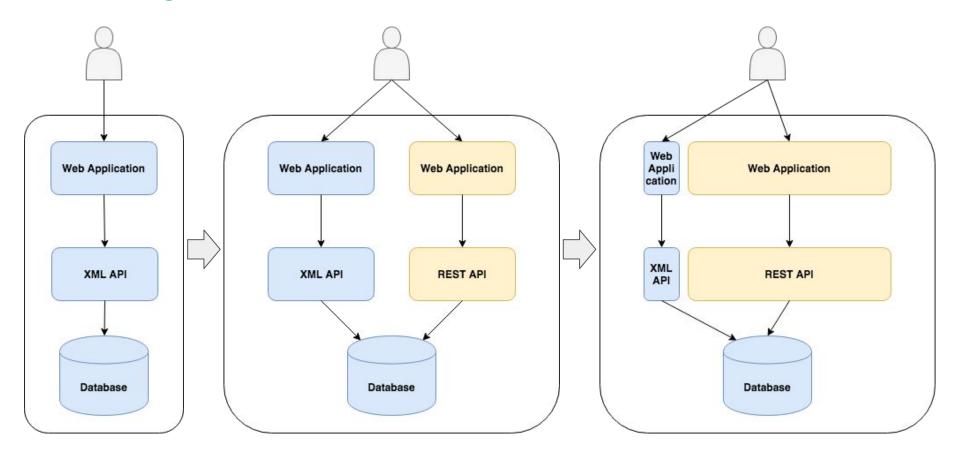






CHALLENGE ACCEPTED

Strangler Pattern



"Working Effectively With Legacy Code"

- Michael C. Feathers

What did this give us?

Pros

- Retained existing following and SEO
- Enabled us to write modern, robust, secure code without tearing down what they already have
- Supported an even split between working on new features whilst also reducing technical debt
- Maintained developer morale by not having to work on existing codebase



Any cons?

- Performance can be affected
- Do sometimes need to peek inside the black box
- Need to remain focussed on getting rid of the old application



What were the results?

Impressive!



Created **value quickly**, by
delivering new
features from the
beginning.

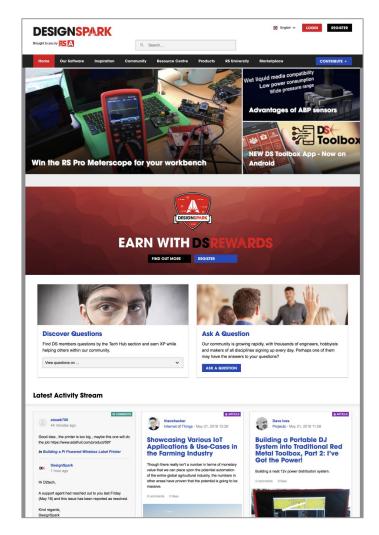


Supported bottom-up innovation.

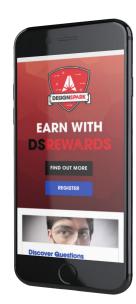


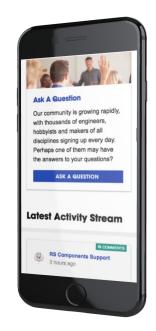
DesignSpark went
from community side
project to a
monetised
framework with
ambitious goals.











Premier League · 10/09/16

4 - 1

Liverpool

Full-time

Leicester City

Roberto Firmino 13', 89' Sadio Mané 31' Adam Lallana 56'



Jamie Vardy 38'







amie Vardy 38'

Key takeaways

- Structure new applications with this approach in mind
- Easier sell to development teams
- Develops a better client relationship
- Allows a seamless transition for users

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