Definition of Modern Web Application

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Stakeholders in WebApp development

- **Users**
  - Easy to use, nice to look at
  - Is actually helpful

- **Owners**
  - Cheap, quickly, high quality, generates profit, unicorns

- **Suppliers**
  - Happy customers (→ cheap, quickly, high quality)
    - maintainable, extendable

Web Application for Users

- **Great user experience**
  - Easy to navigate
  - Comfortable look
  - Fast
  - Stable

- **Works on phone / tablet**
  - Responsive design

Web Application for Owners

Customers expect developers to:

- **Deliver high quality product**
  - Quickly & Cheap

- **Read minds**
  - *"We need a dashboard with all the reports"* translates into many different layout options

Main question: How-to deliver high quality product on time at reasonable costs?

Web Application for Developers

In order to make users happy, the application has to have:

- polished user interface

- good performance

- just a few minor (aka none) bugs

Web Application for Developers

In order to make customers happy, the application has to:

- **generate profit**
  - Do what is expected of it, and do it well
  - Ads are important for content providers → SEO
  - Be secure – lawsuits are expensive!

- **just a few minor (aka none) bugs**

- **Cheap to develop, extend and maintain**

Web Application for Developers

In order to create application that is cheap to develop, extend and maintain:

Web Application for Developers

In order to create application that is cheap to develop, extend and maintain:

- Forget it, unicorns...

Web Application for Developers

In order to create application that is (relatively) cheap to ~~develop~~, extend and maintain:

- **Modular application**
  - → easy to add new functionality
- **Good Application Design**
  - → easy to make changes without breaking everything
- **Good Tests**
  - → you actually **know** if something is broken

Web Application for Developers

In order to create application that is (relatively) cheap to ~~develop~~, extend and maintain:

- **Good Build & Deployment Setup**
  - → easy to make changes
  - → limitation of human error
- **Means of Integration**
  - Quite often, applications need to talk to each other
- **Good Tests**
  - → have I mentioned you need to **know** if something is broken?

Summary

In general, the aspects of good web application are:

- Extensible

- Secure

- Good architecture

- Covered by tests

- Well-documented/automated build and deployment process