

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 (you)**

- 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 must have:

- polished user interface
- good performance
- just a few minor (aka none) bugs

Web Application for Developers

In order to make owners 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 localized changes without breaking anything unrelated

- **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
- → limit number of human-caused errors

- **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