

Stack

Angular

Awesome, massively reduces the amount of code needed to write one page apps.

Supported by google

Alternatives: emberjs, less adoption and considered inferior.

Underscore

Lots of simple useful functions

Requirejs

Asynchronous loading of javascript, speeds up development load time.

Bootstrap

Standardised UI components and design.

jquery

Bootstrap needs it.

less

Added css functionality, chosen over sass as bootstrap uses it.

Hibernate

Orm which will automagically provide auditing. The main standard java orm.

Scala

Alternative to java (and interoperable), which provides a stronger type system, more functional style and removes the need for a lot of the verbosity.

alternatives:

ruby, unsure of auditing support;

nodejs: Is only single threaded, too new, unsure of auditing support and callbacks are bad;

LUA: lack of libs;

python: some of us don't like whitespace as markup;

C/C++: this was a real contender, but on the whole too low level.

Play

The scala goto web framework.

Alternative is lift, which is based more at classic sites, as opposed to providing rest api.

PostgreSQL

A proven sql database, supports json and has recursive queries.

Development Methodology

Test driven development

Ensure our stuff works

karma

Unit testing for javascript, chosen because its angulars' testing framework.

selenium

Standard integration testing tool.

junit

Standard Java Unit testing tool.

scalatest

Makes writing Java unit tests in scala easier.

Jenkins

Provides continuous integration, Currently company standard.

2 week sprints

Standard

git flow

Ensure all code gets reviewed before pushing to a communal branch