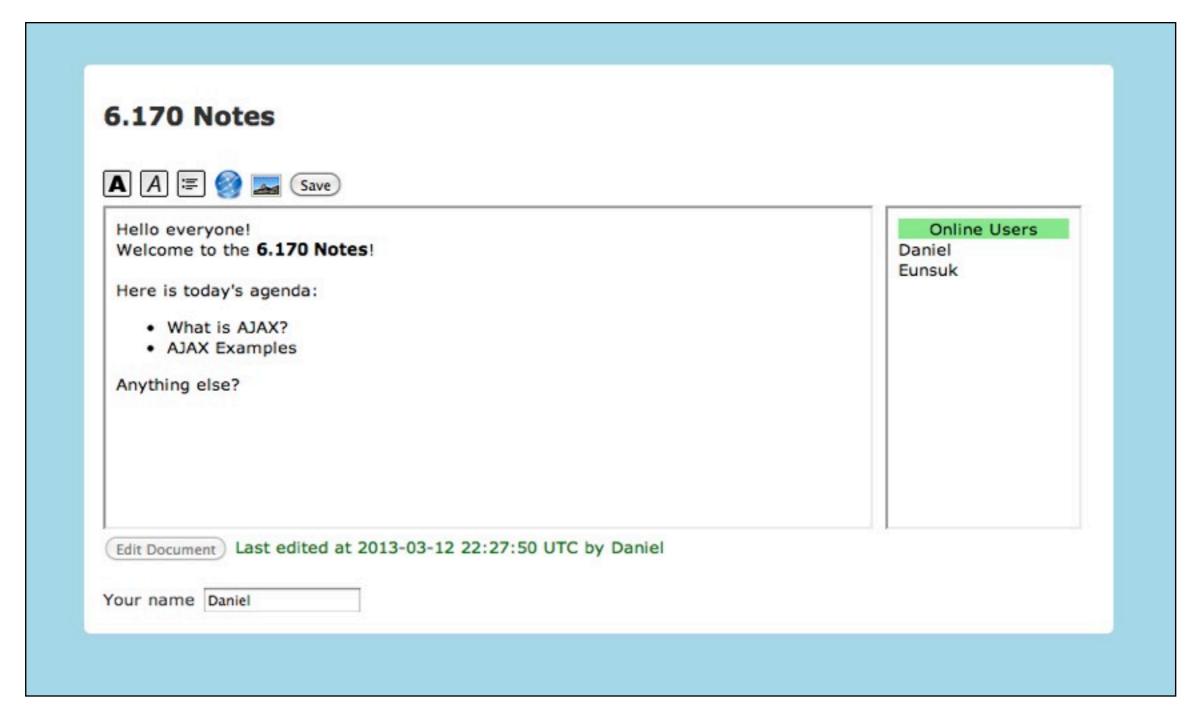


asynchronous calls: Engage app

Eunsuk Kang

challenge



- > multiple viewers
- > update view when document changes?

design alternatives

users manual refresh

easy, but undesirable

polling

- client sends a request periodically
- simple to implement
- > scalability issues (wasted requests)

server-side push

- > server sends out updates to clients
- efficient, scalable
- no built-in support in Rails
- Juggernaut, Comet, WebSocket, etc.

polling

```
# Return the latest version of the document for this project
# GET /latest_doc
def latest_doc

project = Project.find(params[:id])
doc = project.extract_latest_doc

render :json => doc
end
```

server side

exercise: can you come up with the client code to perform polling?

- assume JS function update_document(doc)
- also available: \$.get, \$.ajax, setInterval

polling

```
# Return the latest version of the document for this project
def latest_doc
  project = Project.find(params[:id])
  doc = project.extract_latest_doc

render :json => doc
end
```

server side

client side

model instance automatically converted into json

custom JSON in Rails

server side

client side

AJAX summary

in Javascript

- timers
- jquery methods

in Rails

- constructing JSON
- form helpers

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