Plugin Architecture for The Massachusetts Open Cloud GUI (MOC)

TEAM MEMBERS:
DANA ALJAWDER, LAMA ALSUWAYAN, EVERETT CARSON, IGIBEK KOISHYBAYEV, HUNG VONG

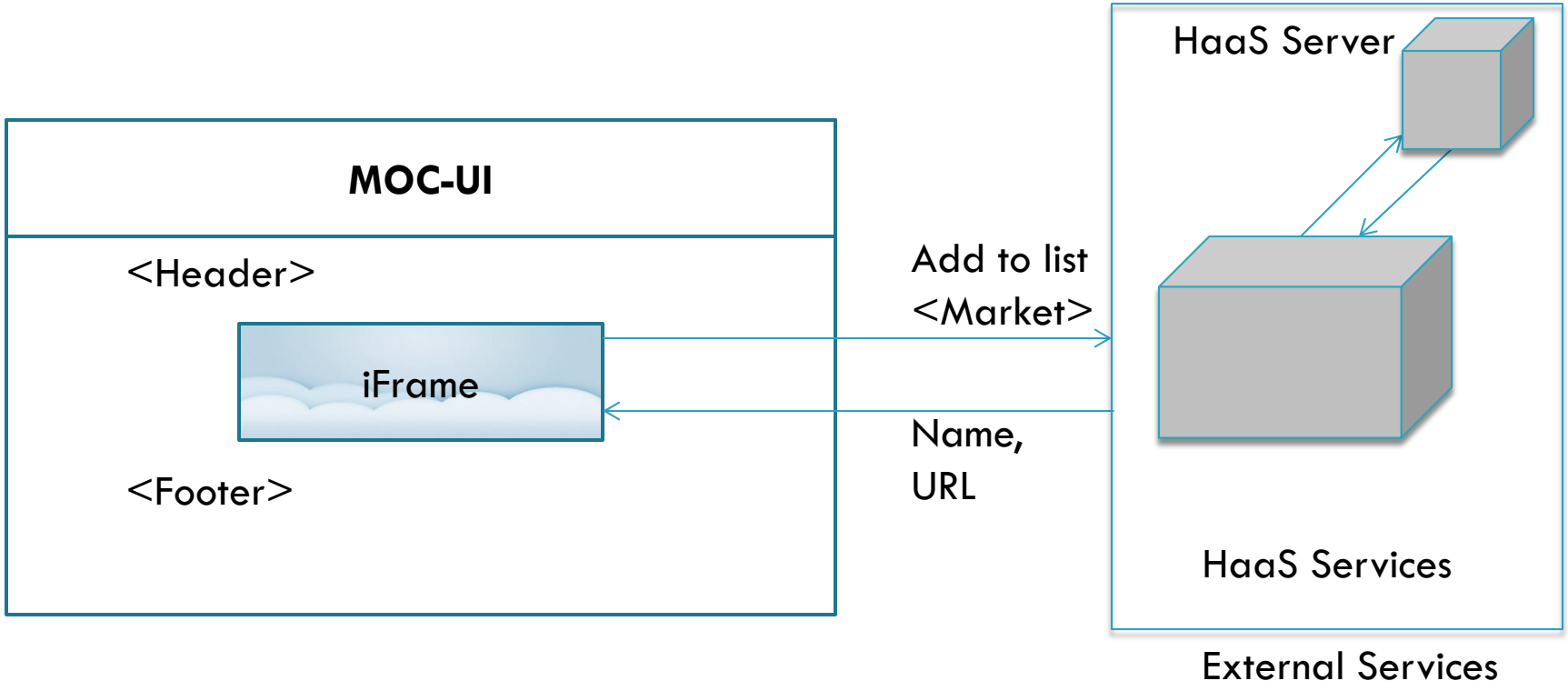
PROJECT MENTOR:
JONATHAN BELL

EC 500-A1: Cloud Computing

Project Overview

- Plugin for MOC-UI
  - Allow external web apps to be integrated into MOC-UI
- HaaS
  - Test case: implement a web app to manage projects using HaaS
- Integration of HaaS app into MOC-UI

Integration Strategy



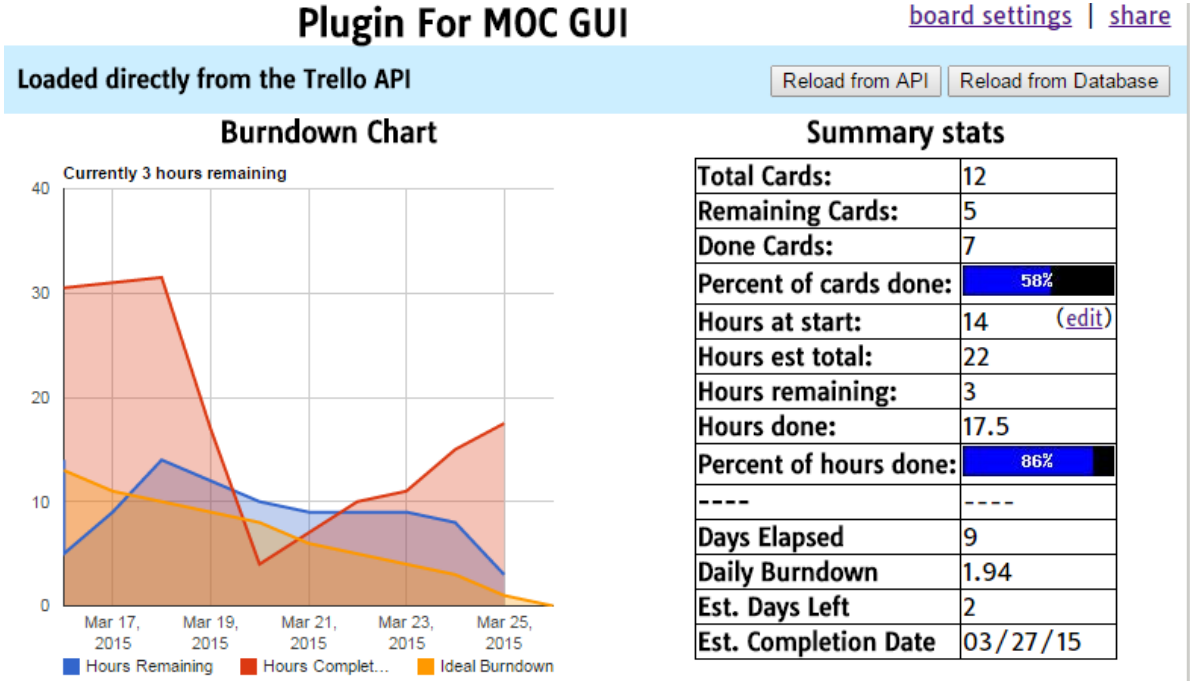
Sprint 1

- Learned web tools (Django)
- Studied HaaS API
- Developed initial UI for app
- Did not use Trello properly

Sprint 2

- (4) Set up instances of HaaS server [3]
- (Stretch)Created HaaS API (List all Projects) [5]
- Integrated HaaS API calls into web app
  - (4) create/delete projects [4]
  - (Stretch)Get all free nodes [1]
  - (Stretch)Get all projects [0.5]
  - (Stretch)List project nodes/networks[2]
- (8) Extended UI (Django templates, CSS & JavaScript)[7]

Burndown – Bad Chart



Burndown – Corrected

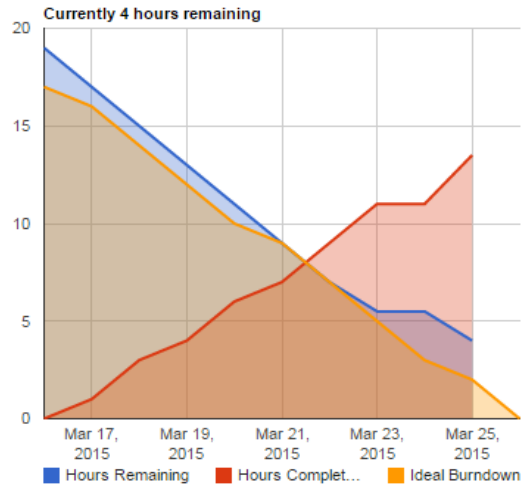
Plugin For MOC GUI Sprint 2

board settings | share

Loaded directly from the Trello API

Reload from API | Reload from Database

Burndown Chart



Summary stats

Total Cards:	10
Remaining Cards:	2
Done Cards:	8
Percent of cards done:	80%
Hours at start:	19 (edit)
Hours est total:	19
Hours remaining:	4
Hours done:	13.5
Percent of hours done:	78%
----	----
Days Elapsed	9
Daily Burndown	1.5
Est. Days Left	3
Est. Completion Date	03/28/15

What's Next For Sprint 3

- Finalize the web app UI:
  - Navigation
  - Node details
- Implement forms to process data:
  - Assign headnode
  - Detach node
- Integrate HaaS API calls into the app
  - Assign headnode
  - Attach/Detach nodes
  - Connecting networks

Overall Status

- Almost done with initial goals
- iFrame Integration (Sprint 4 & 5)
  - Depends on MOC UI group
- Could work on stretch goals in the meantime
  - Authorization for HaaS

Q & A!