

INFO/CS 4302

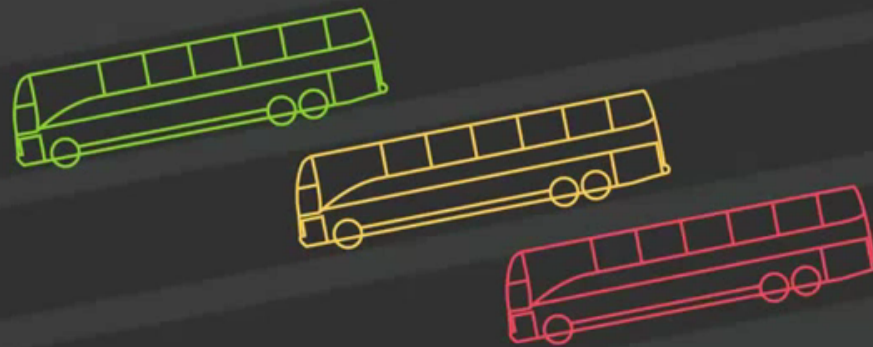
Web Information Systems

FT 2012

Week 2: Project Kickoff

Connecting Passengers to Safety Information

INFO4302 Web Information Systems



Brandon Cook
John Dogonaryo
LaiYee Lori Ho

Voted best student project FT2011

- <http://www.youtube.com/watch?v=8QePIJsSzy4>

INFO/CS 4302: Web Information Systems

Fall 2012

[Home](#) | [Course Information](#) | [Lectures](#) | [Homeworks](#) | [Projects](#) | [Resources](#)

The goal of the programming project is to gain hands-on experience with the concepts and technologies taught in this course. Because we believe that it is much more fun to develop own ideas than to implement pre-defined project assignments, we let you, in groups, define your own course-related project. With this freedom comes the responsibility of self-studying course topics, finding existing datasets, working out interesting and technically challenging use cases, and delivering creative software solutions.

This will involve the following steps:

- By October 14th 11:59pm, each group should have submitted a 3 pages **project proposal** to the course [CMS](#). Each proposal must follow the [project and proposal guidelines](#) outlined below.
- We will read the proposals and either accept or reject proposals by October 21st. Rejected proposals must be revised within one week in close cooperation with the teaching assistants and course instructors. Implementation can start as soon as a project proposal has been accepted. Please consider our [implementation guidelines](#).
- In class on Tuesday, November 6th and Thursday, November 8th, each group should give a 5 min presentation about their project and preliminary results ([presentation guidelines](#)).

Goals

- Gain hands-on experience with course topics
- Define your own **course-related** project
 - think about convincing use cases
 - find open datasets from the Web
 - develop a data-centric Web application
- Teamwork (in groups of three)

Project Guidelines

- Your project idea must be **novel and convincing**. You cannot hand in some existing solutions from the Web or something you coded for other courses.
- The result of your project must be a **Web application**.
- This application must use at least one, publicly available **dataset from the Web**

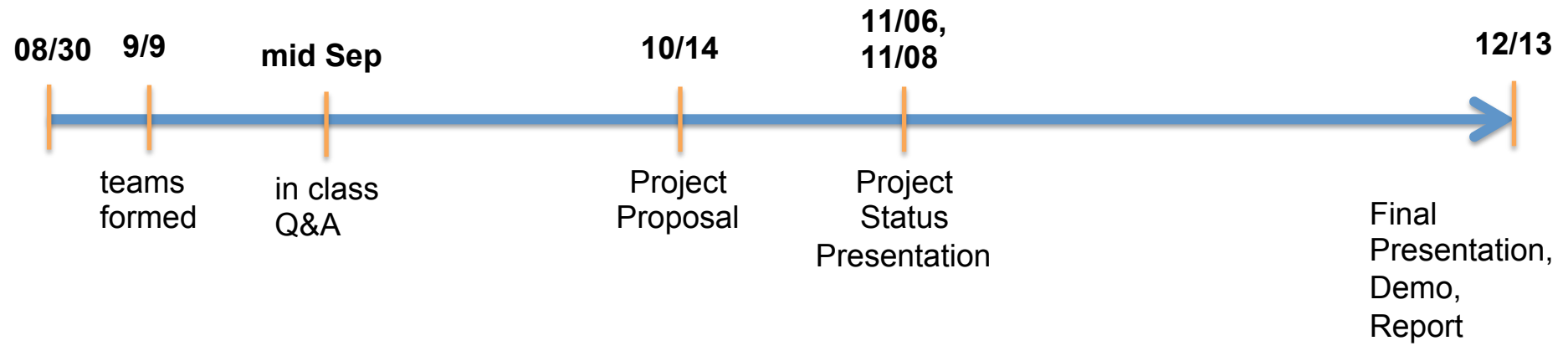
Project Guidelines

- The application must clean, process, organize, and structure the data as needed.
- The application must have a **Web-based user interface** that generates some added value from the data for a web user, e.g.,
 - by combining data,
 - by providing some interaction with the data
 - by visualizing data

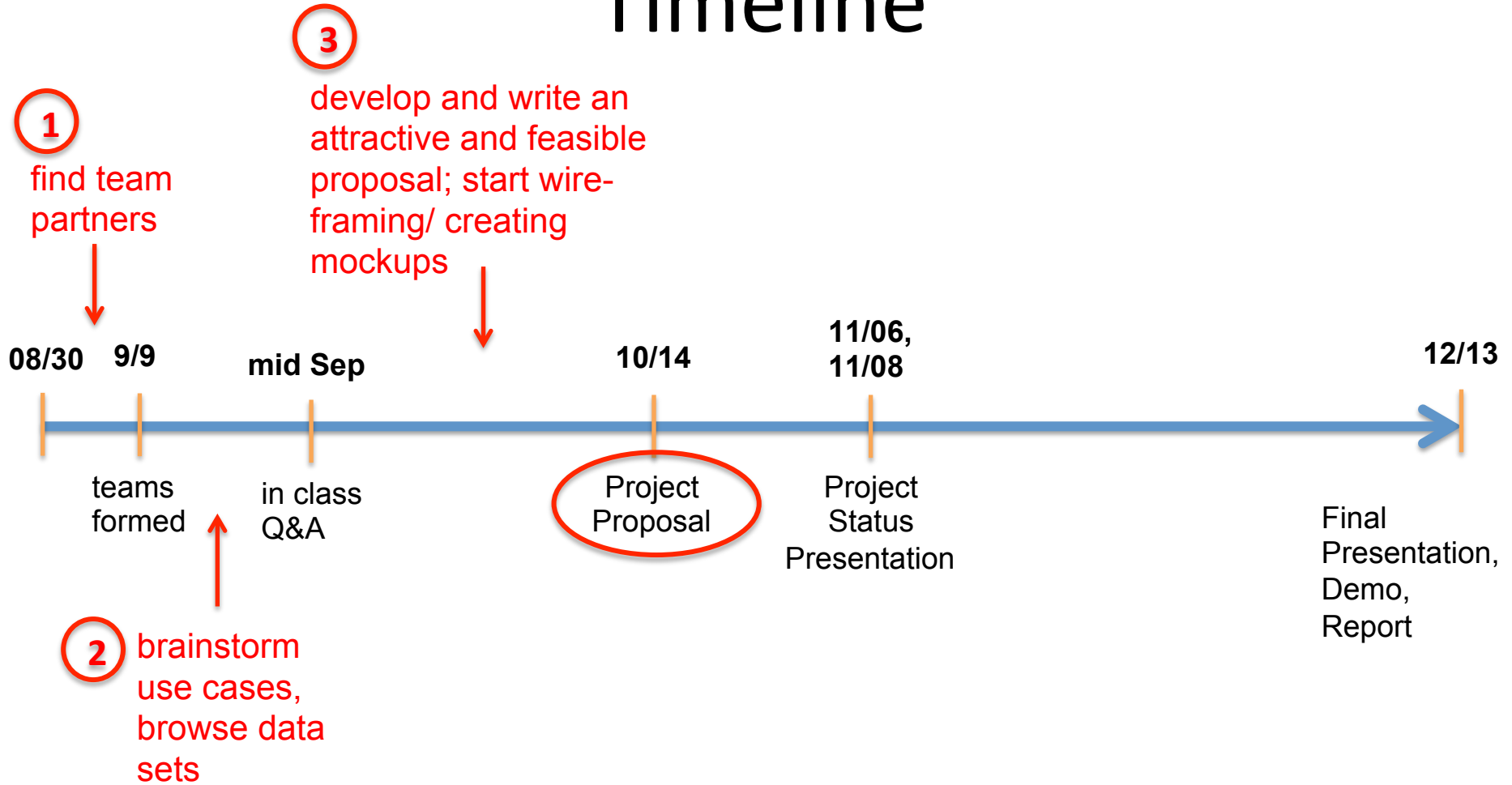
Project Guidelines

- The application must provide a **RESTful API** to the underlying structured dataset.
- The application must either expose a **Linked Data interface** or provide **structured data markup** for its Web pages.

Timeline



Timeline





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[Home](#) | [Course Information](#) | [Lectures](#) | [Homeworks](#) | [Projects](#) | [Resources](#)

A growing collection of Web links relevant for this course.

Open Datasets

[US Open Government Data \(Data.gov\)](#), [Other Open Government Data Sources](#)

[Linked Open Government Data](#)

[International Open Government Data Search](#)

[the Data Hub](#), [Linked Open Data Cloud datasets](#)

[World Bank Open Data](#)

[nature.com linked data](#)

Project inspiration / Open Data Challenges

[NYC BigApps 3.0](#)

[Data.gov showcases](#)

[TWC Linked Open Government Data Demos](#)

[ChallengePost](#)

NYC BigApps 3.0

FOLLOW

9067 followers

Closed

\$50,000 in prizes

- RULES
- SUBMISSION GALLERY
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New York City challenged software developers to create apps that use city data to make NYC better.

VIEW THE WINNERS



Winners Gallery

BEST OVERALL APPLICATION - GRAND PRIZE

BEST OVERALL APPLICATION - 2ND PRIZE

Recent Followers



Next Steps

- Form groups of three
 - use Piazza to announce ideas / find teammates
 - inform us (Piazza post) about groups by **Sept. 9th**
 - ping us if you are not in a group by Sept. 9th
- Brainstorm / Browse datasets / Think about use cases
- Question and Answer Session mid September
- Write project proposal / Start wireframing and/or developing mockups
- Come to office hours and talk to us