

15-619

Cloud Computing

15-619 Project Overview

Recitation 10

October 29nd and Nov 1st, 2013

619 Project Overview

- For students who **enrolled in 15-619**
 - Since 12 units, an extra project worth 3-units.
- A **team project** for a team no more than 3 students.
 - Fill in the team information [online](#).
 - No team, advertise your skills on Piazza.
 - The team registration is due on **Friday, Nov 1st**.

619 Project Overview

What is the project about

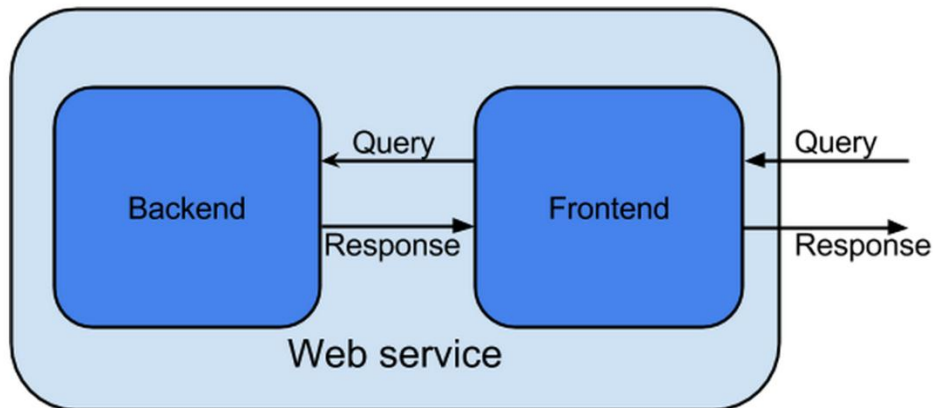
- A client has approached your company and several other companies to compete on a project to build a web service for Twitter data analysis.
- Your company needs to build a web service that meets the requirements of the customer.
- It will be a bidding process, meaning you will compete with other companies.
 - Other companies = other 15-619 groups.
- Project description can be found [here](#).
 - This is an active document, keep checking for updates.

619 Project Overview

- What you are given:
 - A Twitter data set stored on S3 (~100GB)
 - Customer requirements
 - Business Requirement (Query types)
 - Minimum Performance Requirement (Throughput)
 - Cost Constraints
 - If you overrun your budget you will receive a disqualification penalty
 - Design and plan before you execute

619 Project Overview

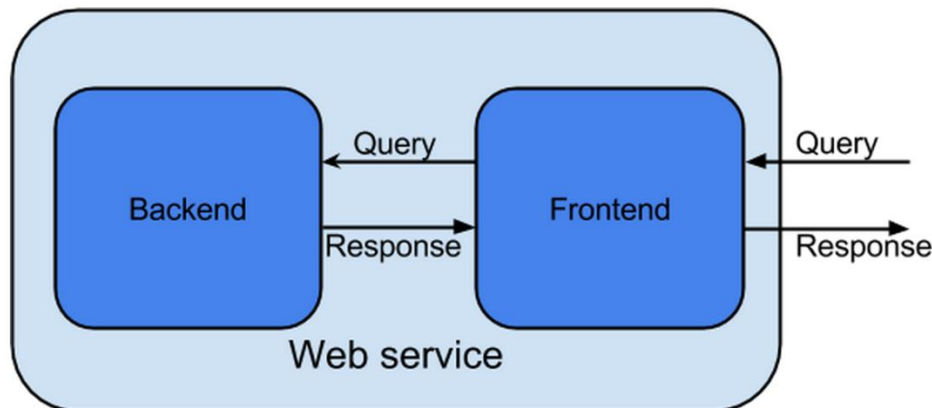
- What you are asked to do
 - Build a web service
 - Preprocess the data and store them
 - Process queries from customer and send a response
 - Explore solutions to win the bid
 - Front End and Back End



Details are articulated in the [project description](#).

619 Project Evaluation

- Development period
 - Development, evaluation, exploration, optimization
- Live test period
 - A comparison of cost, throughput and latency between all submitted web services



Tag Your Instances

- From now on **all** the AWS resources and EC2 instances you launch in this course have to be labeled with a **tag**
- **Why Tagging?**
 - To categorize instances for different purposes
 - Production / Development / Testing...
 - OLI Projects / 15-619 Project
 - **To have a clearer billing report!!**
 - For cost control and monitoring purposes in this class

Tag Your Instances

- The tag format for 619 project:

Tag Key	Tag Value
15619_Group	The Name of your Project Group (eg. "1337_team")
15619_Step	The step that your are currently performing in the Project (eg. 1, 2, 3, 4, 5 or 6)

- For Your OLI projects

Tag Key	Tag Value
CC_OLI_Project	Module title in lower case (eg. vertical scaling)

Tag Your Instances

- Demo
 - Create IAM Role
 - Tag your instances **before** launching
 - Check your tags