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
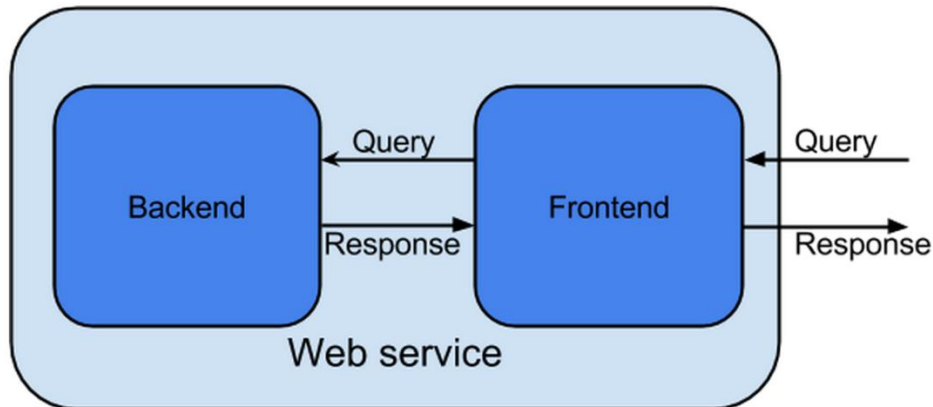
What is the project about

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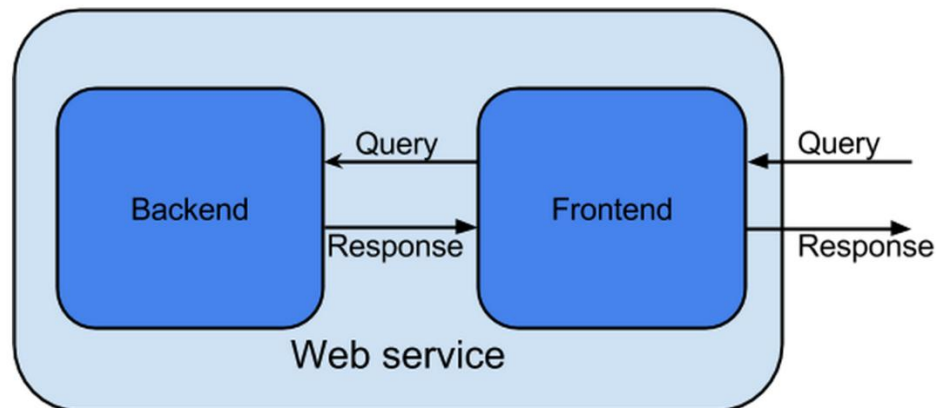
- ## What you are asked to do
  - ### Build a web service
    - Preprocess the data and store them
    - Process queries from customer and send a response
  - ### Explore solutions to win the bid
    - Front End and Back End

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