Case Study Framework Draft

Contents:

* Topic
  + This will be a one paragraph summary about the company and project as a whole
* Problem
  + This is where you will explain what problem is being solved
* Why this company/group?
  + If the project is being done in partnership with a company or a specific group, then explain why it was done in the first place for them.
  + For example, if there are multiple competitors out there, it’s important to explain why you specifically chose to work with Company X.
* Solution
  + The solution should include all the steps taken to complete this project.
  + It should be about a paragraph long (5-6 sentences) and explain what methods the group utilized to successfully complete the project.
* Result
  + This can be anywhere between 2-5 sentences long. The group should explain the outcome of the steps they took in the solution section above.
* Next steps and/or overview of what could’ve been done differently
  + If there is more that could’ve been done for this project (i.e. time constraint issue), then this is where you’ll explain the further approaches to explore and what the group could’ve done differently.
* Team Information
  + Names of students, major(s)/minor(s), year, email?

Areas to point out include:

1) This will be used for the corporate sponsor, SCET and can also be listed on your personal LinkedIn pages

2) Highlights of the project and accomplishments.

3) Bridging academia and industry (this is a theme of the Innovation X roundtables)

4) What didn't work and why

5) Content should be student centered, "By Student Innovators, For Student Innovators”

6) Structure should mirror the Innovation Engineering methodology, <https://www.innovation-engineering.net/>

7) What are the possible next steps for the project?

Purpose: for someone who does not know you or your project to read the case study and get a snapshot of what you created (impact) and what you learned (how)

Short Term Goals:

AUG: case study framework and materials (kickstart message, outline) on IE web site. completed colt case study on Innovation X web site

SEP: all completed summer 2021 innovation x projects case studies on Innovation X web site

DEC/JAN: all fall 2021 innovation x projects case studies on Innovation X web site

Long Term Goals:

Case studies page on Innovation X website updated at the end of each semester. Select projects (completed and continuing) highlighted on IE web page and/or SCET newsletter.

(note: not all x-labs projects will require a case study, so as not to duplicate data-x projects on two directories for example)

Case Studies

OPTION 1 Creating Impact: Innovation Engineering Projects Bridging Academia and Industry

OPTION 2 Changing the World: Innovation Engineering Projects Bridging Academia and Industry

Quote from Ikhlaq about if/ why it is important for students, faculty and mentors, including corporate sponsors and SCET Executive Scholars to see themselves in Innovation-X projects.

OPTIONAL statement saying the innovation-x case study initiative was developed by student innovators, for student innovators (using “student” is not inclusive to the innovation x community, ask ikhlaq about wording it better?)

Company Profile

* Company name: COLT Technology Services
* Industry: Telecommunications
* Challenge
* Innovation-X Project (data-informed solution)
  + Relevant links to minimum viable product (web app, web page, Github repo)

Case Study Title- Impact Focus

COLT-X: The Use of AI for Network Automation and Network Optimization

PROJECT SCOPE- NABC Format (Innovation Navigator)

* What company are you working with and do they do that presents a problem which defines your project scope?
* Why the collaboration between Colt and Berkeley? What value does Berkeley Innovation-X have?
* Ex: Colt provides network services in X locations. These networks require bandwidth. Talk about why we need network traffic management in order to optimally assign relevant bandwidth.

Challenge

* Connect to project scope
* Network traffic management for automation and optimization (refer to traffic shaping tutorial recording)

Innovation-X Solution

* System architecture- screenshot
* Technology Strategy- write

Results

* Anvil final web design- screenshot
  + Explain

What do you want people who read the case study to take away from your project experience?

* For student innovators, by student innovators- what you want future x-labs students to expect
* For advisors and company team- what you want future partners to know

What’s next- will vary based on project

* How are you preparing this project to translate into a university course for another team to continue?
* If your project is ending, what are the next steps on the company’s end to implement your tool or use your project to inform their decisions?

Innovation-X Seminar- students, faculty and mentors, including corporate sponsors and SCET Executive Scholars

* Embed Innovation-Seminar sessions (recorded)

Quotes- validation information (Innovation Navigator)

* From each person on the industry team about their experience collaborating with an educational institution
  + Valéry Augais, Network Architect
  + Francesca Serravalle, Emerging Technology Director

Who is COLT-X?- highlight the opportunity to work with industry experts and receive mentorship/ project guidance directly

Meet the team

* Innovation-X student team
* Company/ organization team (project manager, etc.)
* Project Manager- Elisa Balestra, GSMA (AI)

Advisors

* Ikhlaq Sidhu
* Debashis Chatterjee, Senior Director of Software Engineering at Intel Corporation
* Accedian team?

Option to download case study as PDF.