

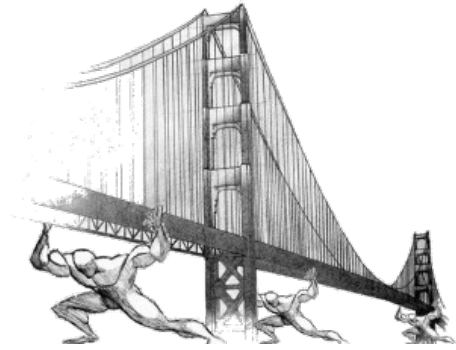
Distributed Software Development

The Development Group

Real-Time Bridge Monitoring Requirements & Design

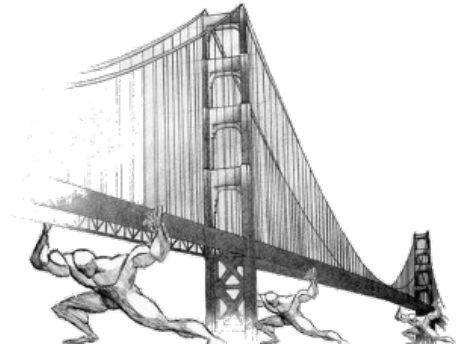


Overview (I)



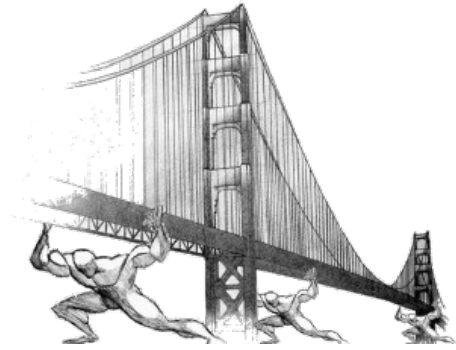
- Team Organization
 - The Development Group
- Requirements
 - Use Cases
 - Mock-up
 - Non-functional Requirements

Overview (I)

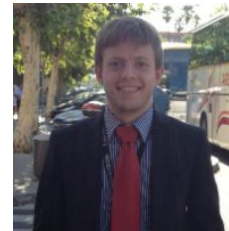


- Design
 - Scope
 - Interfaces
 - Technologies
 - Architecture
 - Parser
 - Data Relations

Team Organization



- The Development Group

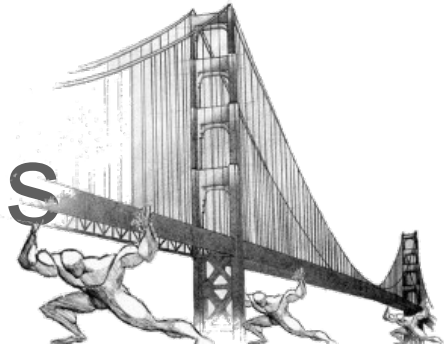


Andrea Bottoli (PoliMi) Lorenzo Pagliari (PoliMi) Marko Brčić (FER) Ghazal Shojaee (PoliMi)



Dzana Kujan (MDH) Jörn Tillmanns (MDH) Miraldi Fifo (MDH) Nikola Radisavljevic (MDH)

Project plan changes



- New team member (Ghazal Shojaee, PoliMi)
- Roles distribution

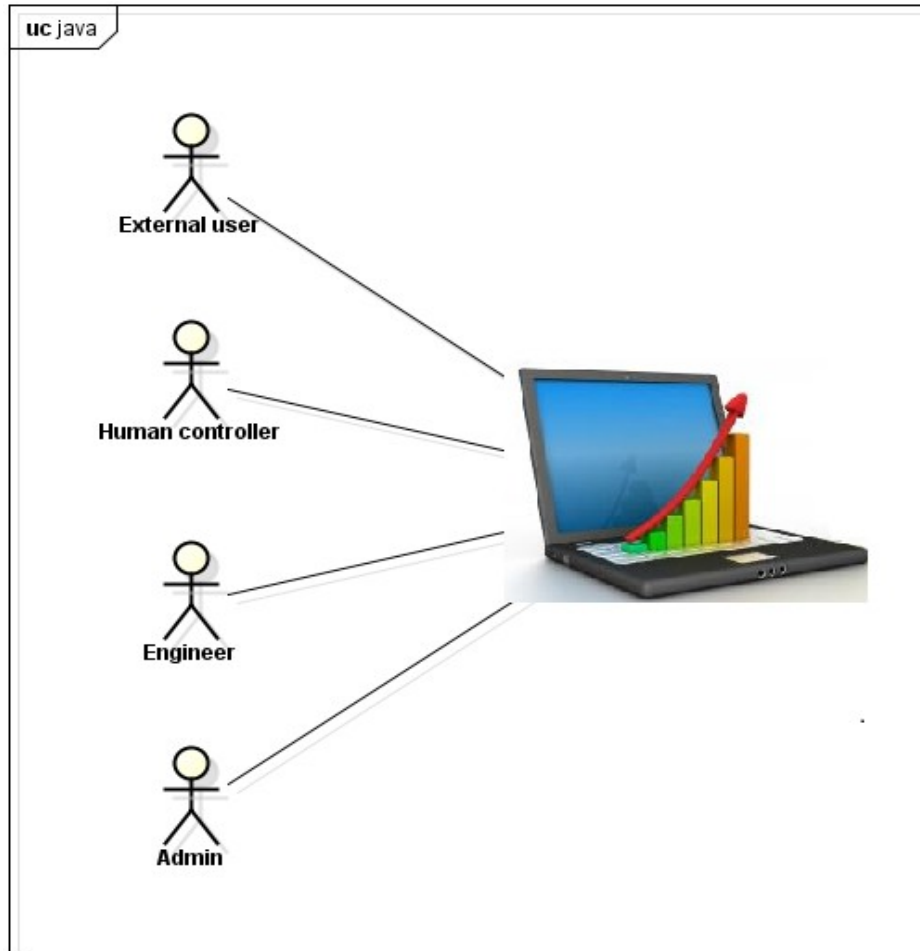
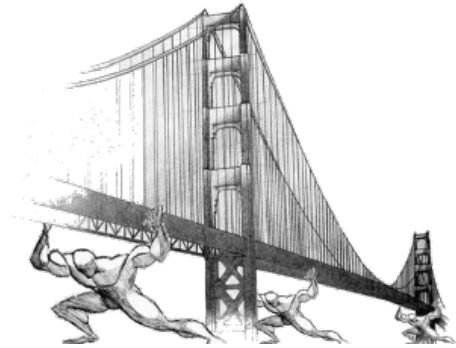
Name	Initials	Responsibility (roles)
Andrea Bottoli	AB	Project Manager
Dzana Kujan	DK	Team Leader
Marko Brcic	MB	Documentation manager
Lorenzo Pagliari	LP	Design manager
Miraldi Fifo	MF	Testing manager
Jorn Tillmanns	JT	Database manager
Nikola Radisavljevic	NR	Integration manager

Project Plan changes

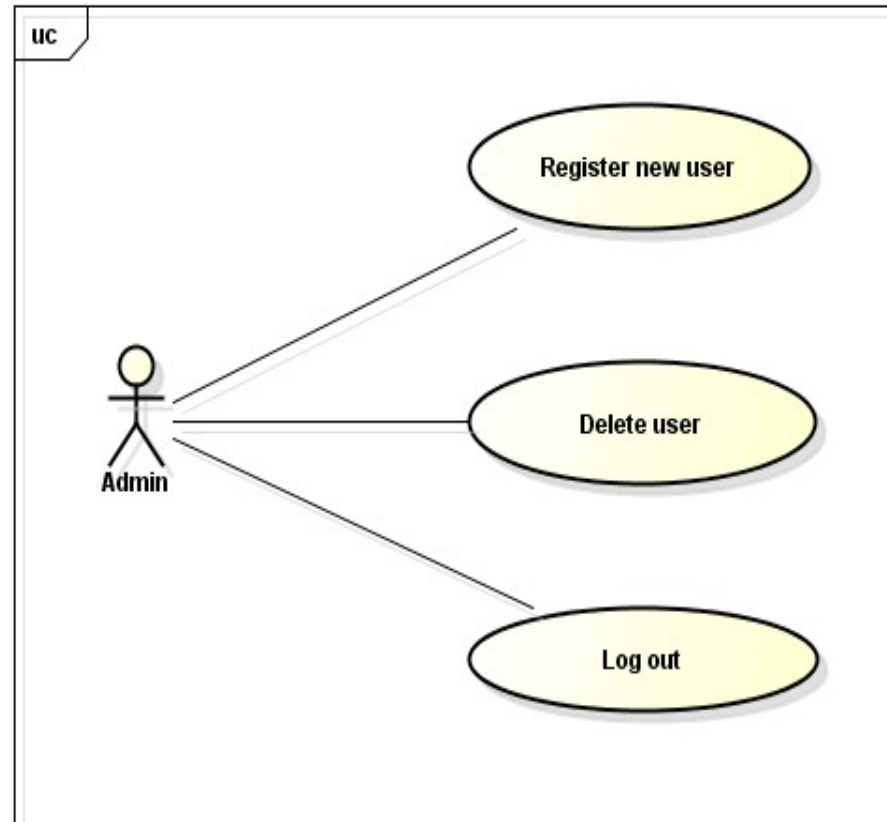
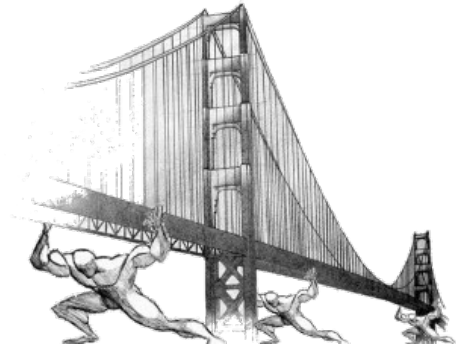


- Functionalities for each prototype defined
- Alpha prototype plan revised
- New risk: Documentation and source code in italian (7000 lines of code)

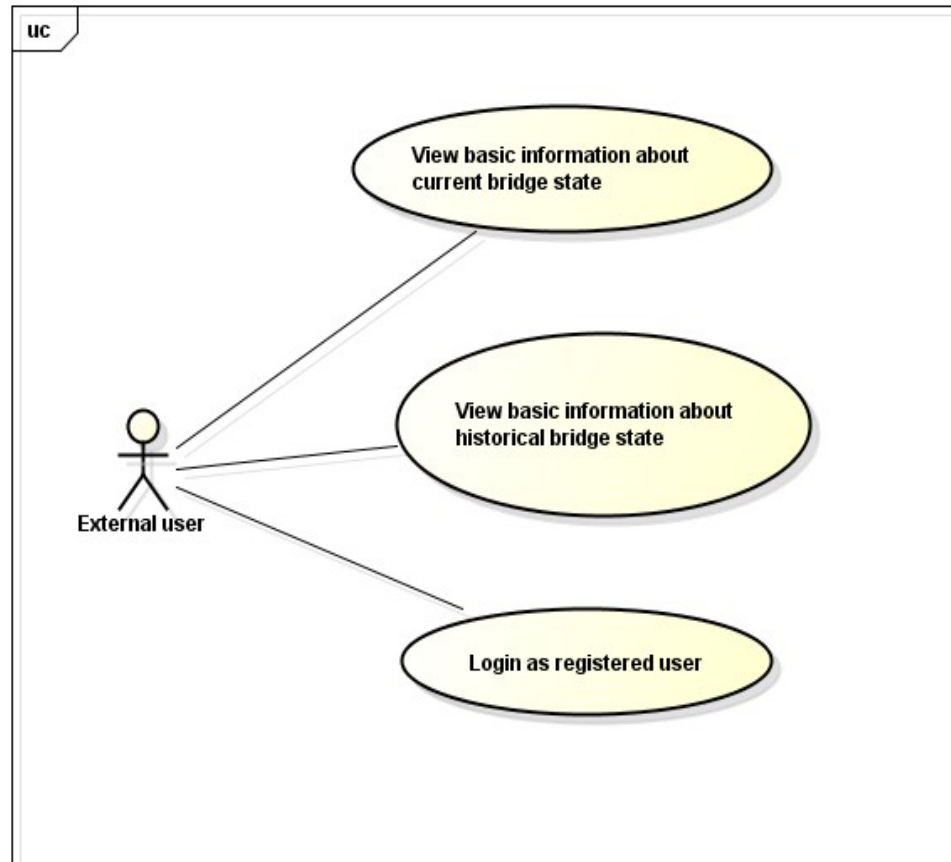
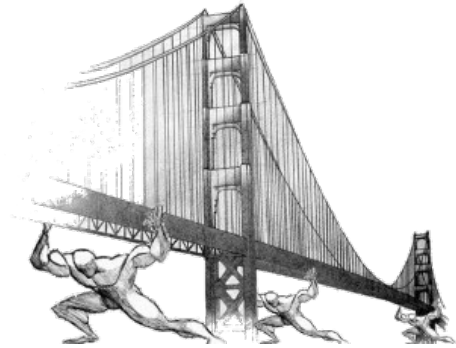
Use Cases



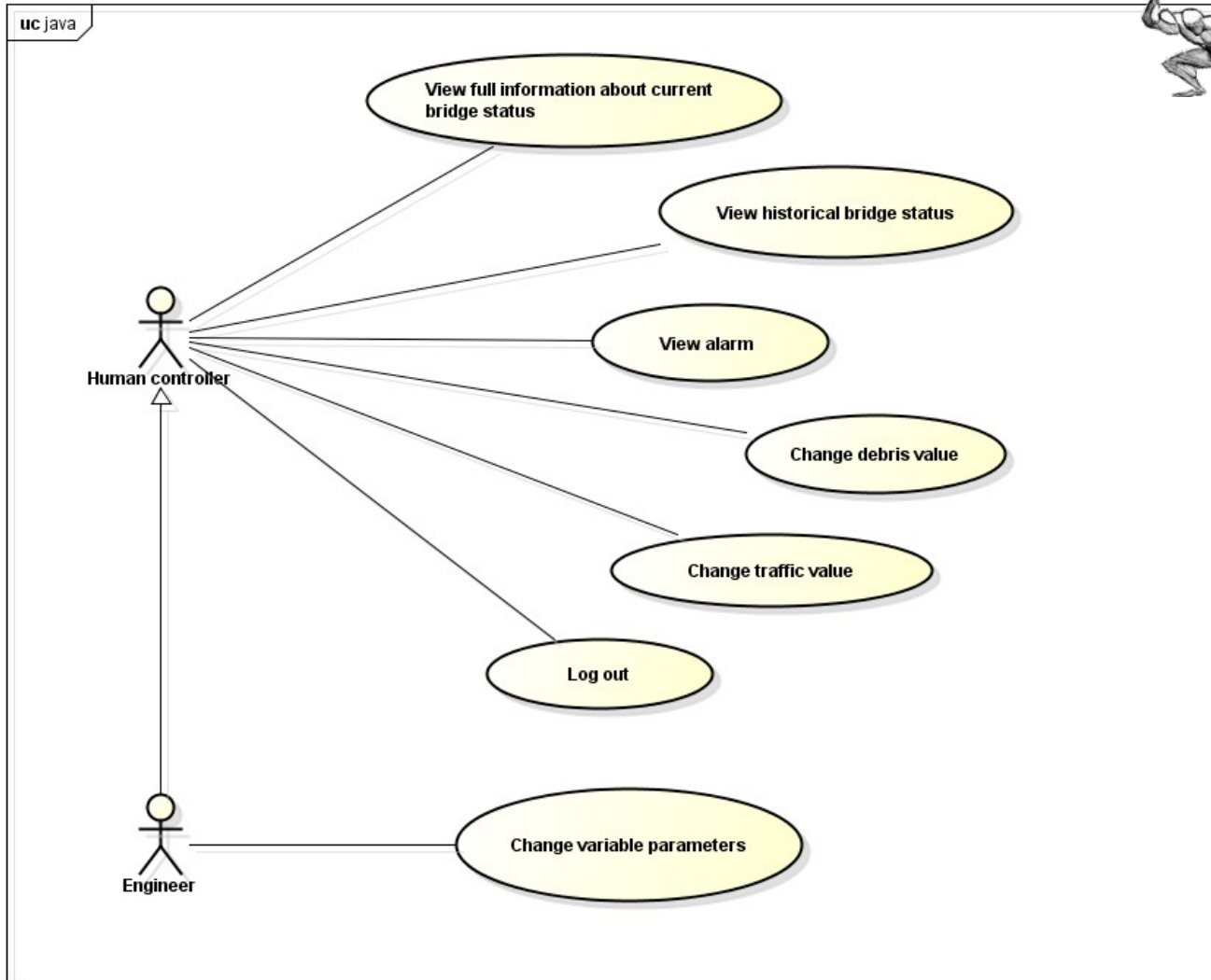
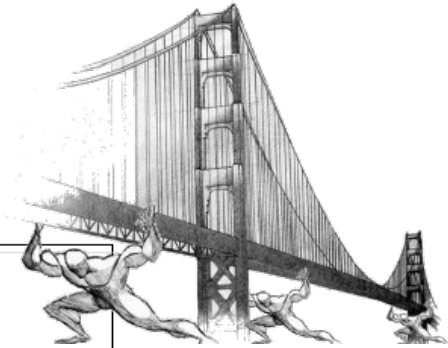
Use Cases



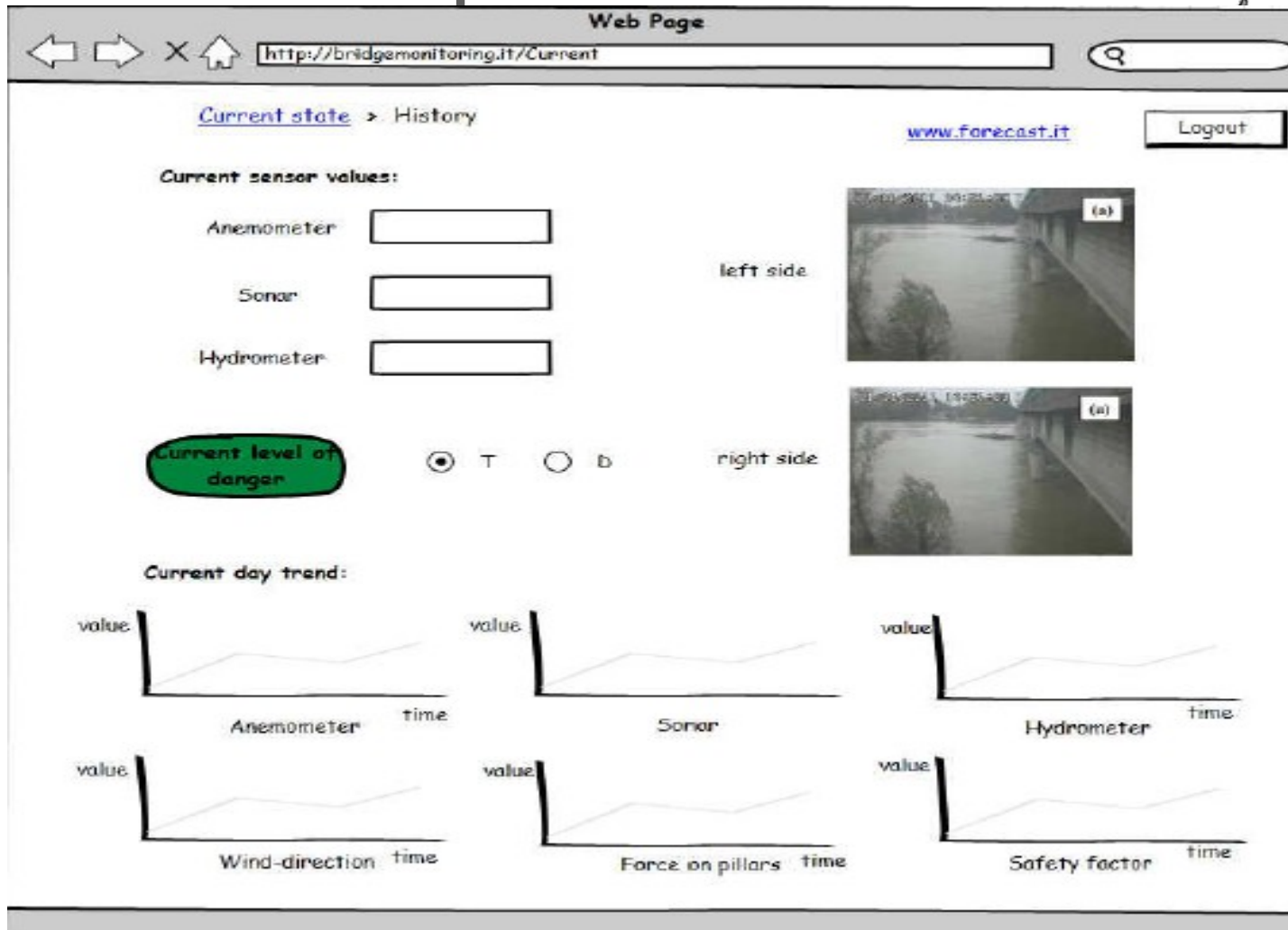
Use Cases



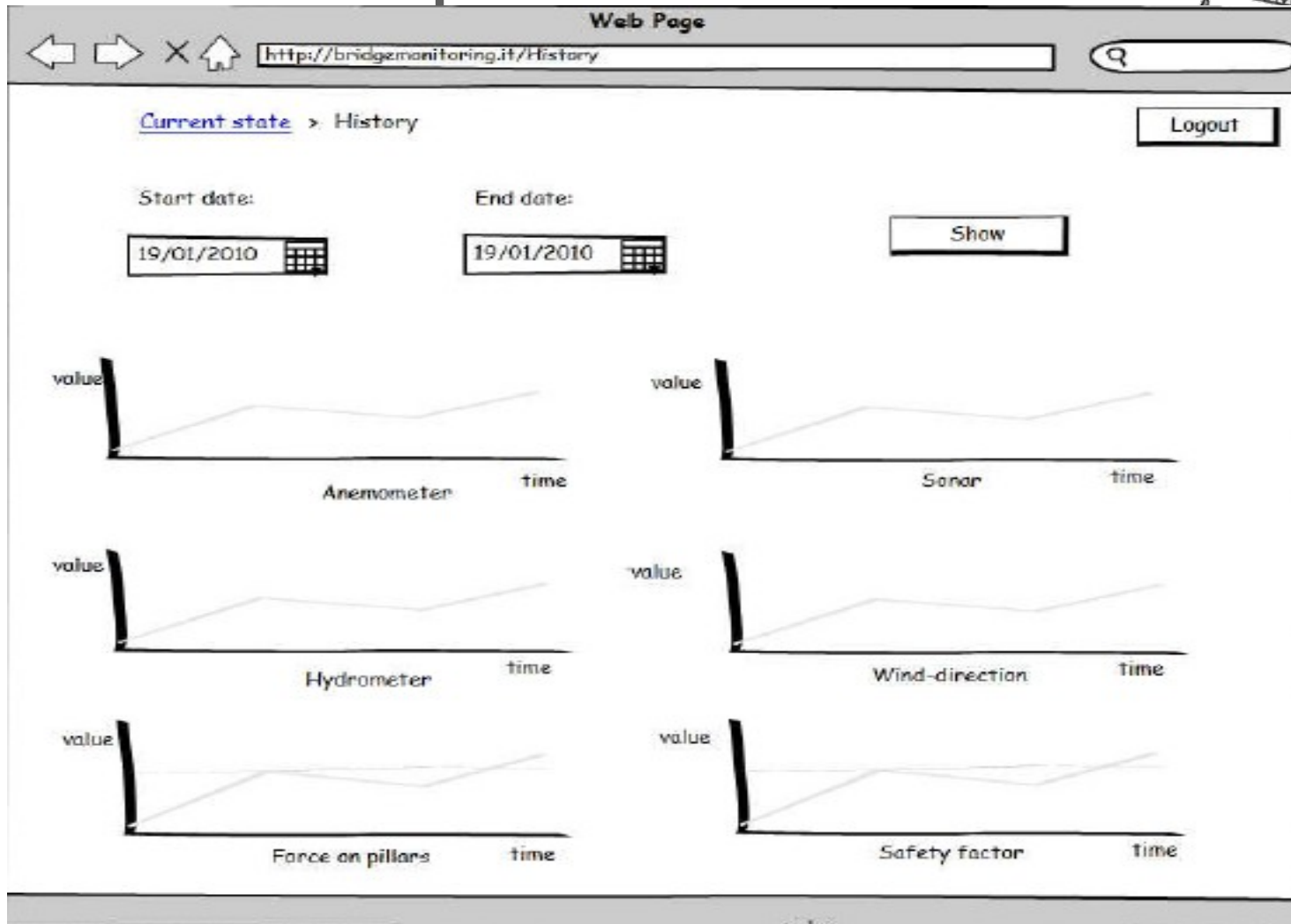
Use Cases



Mock-up for Human Controller



Mock-up for Human Controller



Mock-up for engineer



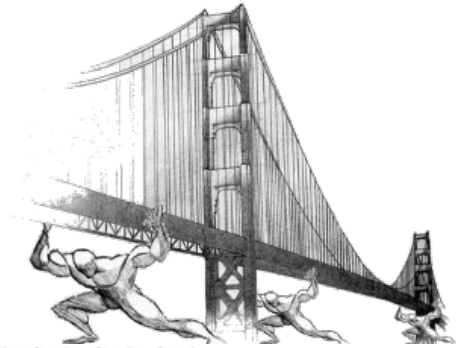
Web Page

← → × 🏠 🔍

Change boundary values:

<input type="button" value="Alarm"/>	<input type="text"/>	to	<input type="text"/>
<input type="button" value="Alert"/>	<input type="text"/>	to	<input type="text"/>
<input type="button" value="Pre-Alert"/>	<input type="text"/>	to	<input type="text"/>

Mock-up for admin



Web Page

← → × ↑

Add new user:

Username:

First name:

Last name:

e-mail:

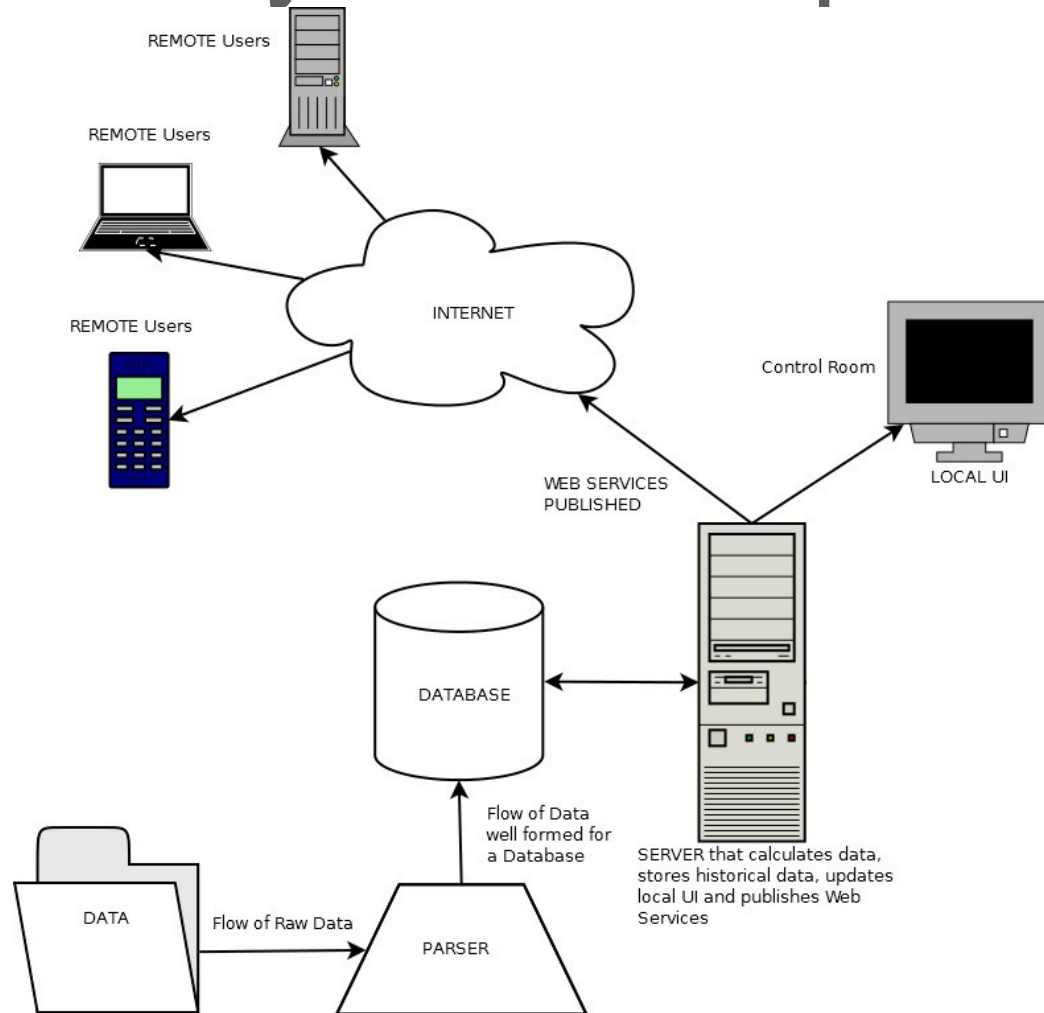
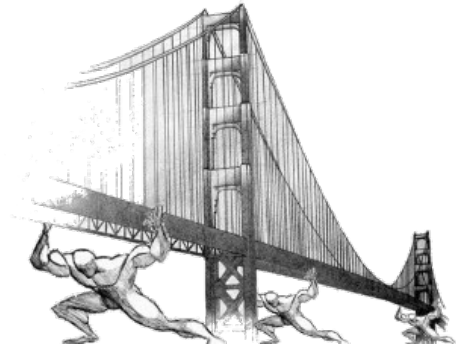
Permission level: ▼

Non-functional Requirements

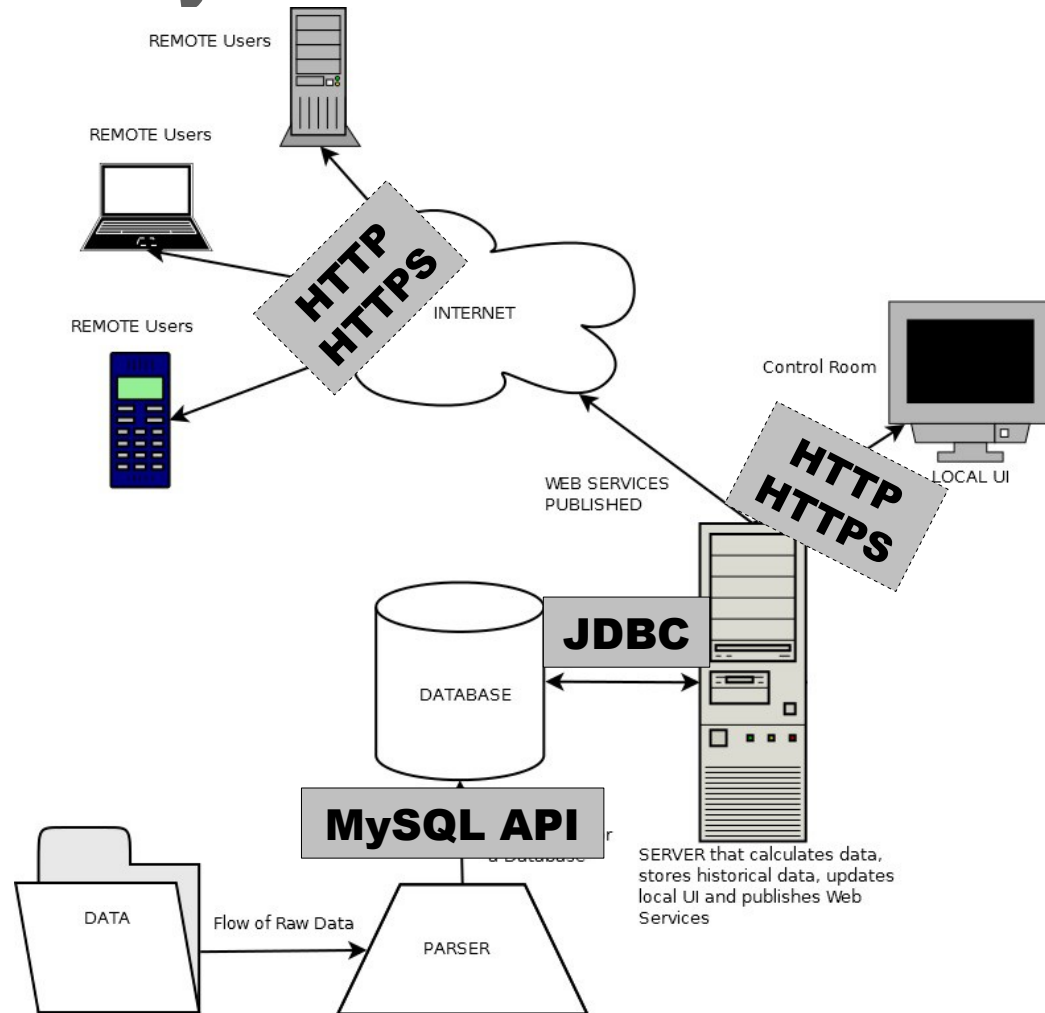


- Confirmation pop-up windows
 - Are you sure to delete this user?
 - Are you sure to change the bounds of risk factors?
- Data updates every 10 minutes – 1 hour
- Different permission levels

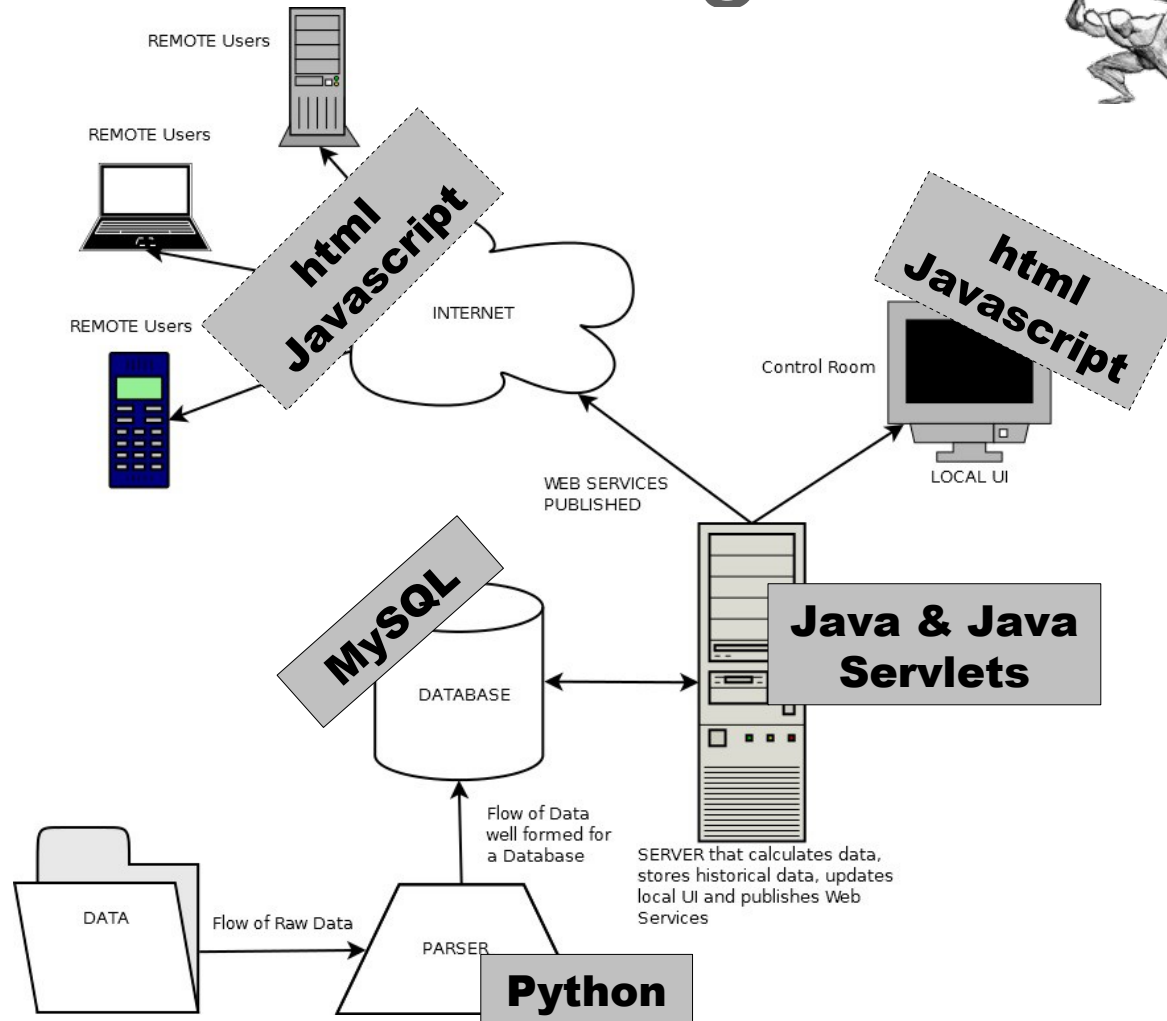
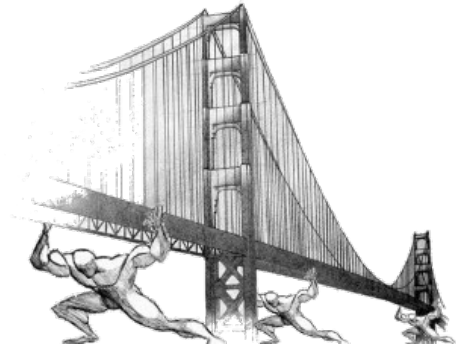
System Scope



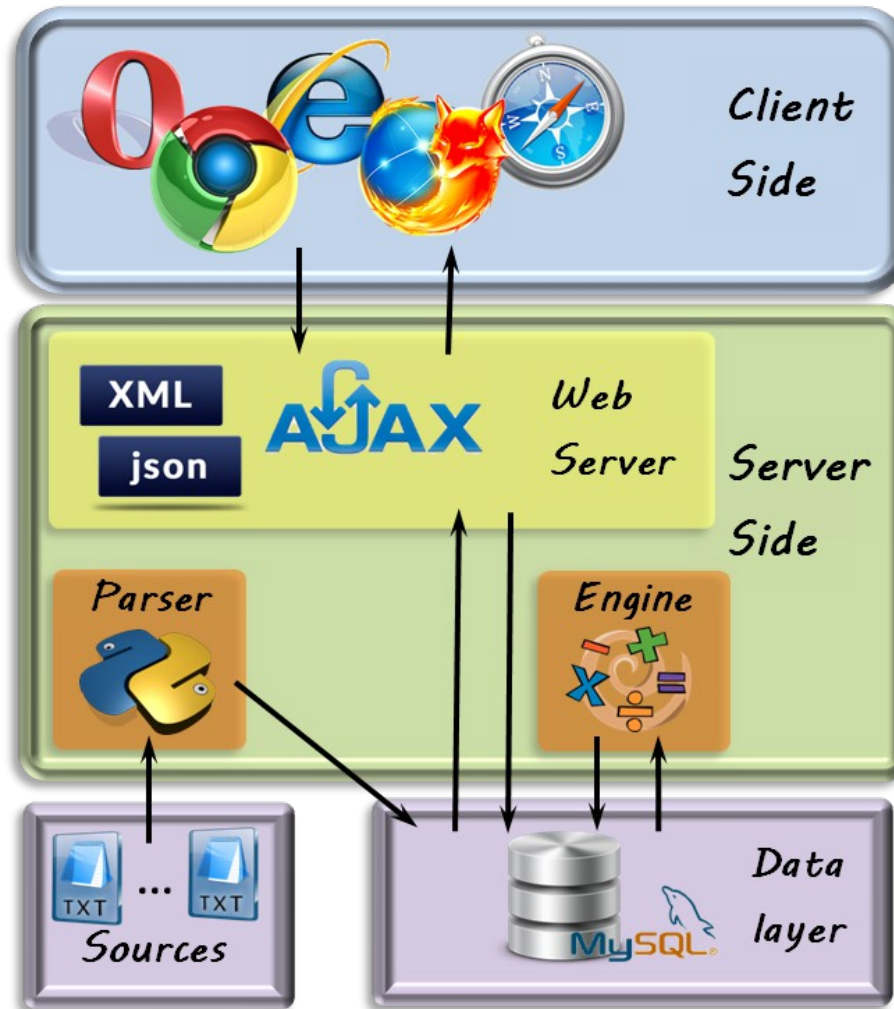
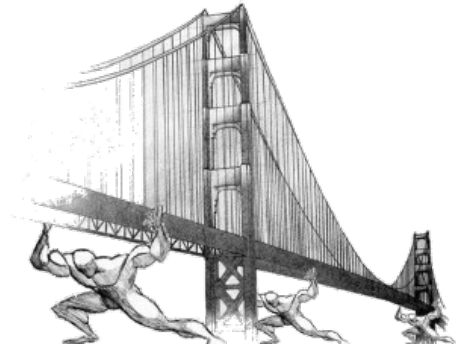
System Interfaces



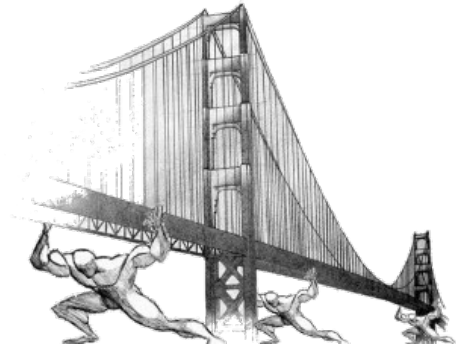
Technologies



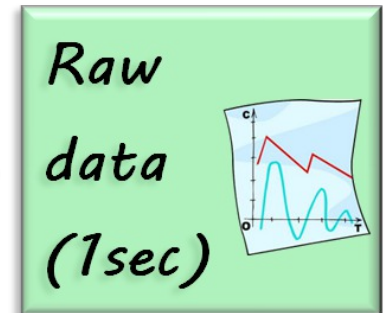
Architecture



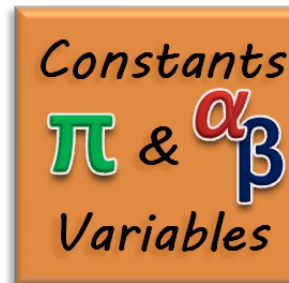
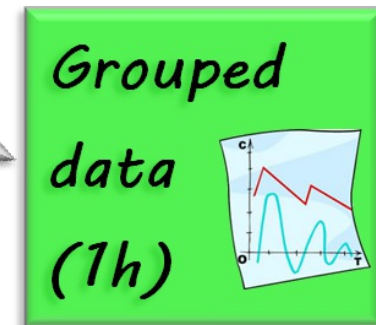
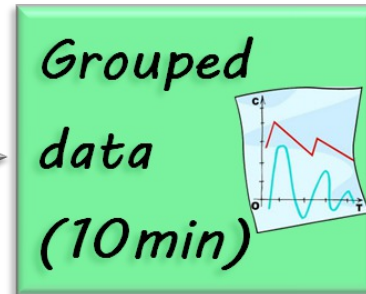
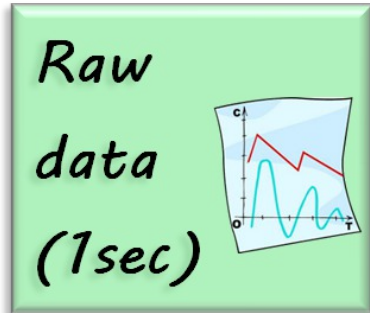
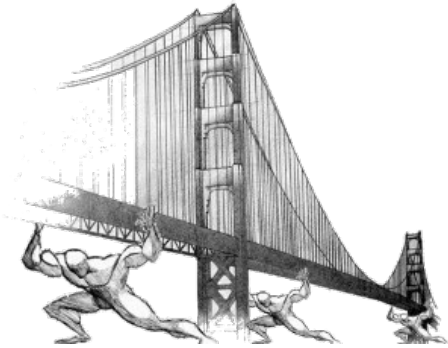
Parser



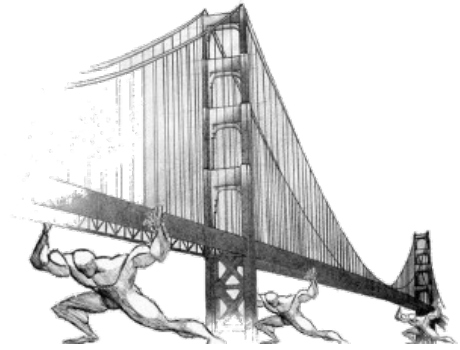
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Data Relations



Question Time



A black and white illustration of the Golden Gate Bridge. The bridge's structure, including its towers and suspension cables, is shown in a stylized, almost architectural manner. Instead of a normal deck, the bridge is supported by several muscular, shirtless men. One man is prominently shown in the foreground, crouching and supporting the bridge deck with his arms. Another man is visible further along the bridge, also supporting it. The bridge extends into the distance, where another tower is visible. The overall style is reminiscent of mid-20th-century graphic design or propaganda art, emphasizing human strength and the engineering feat of the bridge.

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- A word cloud of "Thank You" in various languages. The words are arranged in a heart shape. The largest words are "THANK" and "YOU". Other visible words include "GRACIAS", "ARIGATO", "SHUKURIA", "BOLZIN", "MERCY", "DANKSCHEEN", "BIYAN", "SHUKRIA", "TASHAKKUR ATU", "SUKSAMA EKHMET", "MEHRBANI", "PALEES", "GOZAIMASHITA EFCHARISTO", "KOMAPSUMNIDA", "JUSPAXAR", "YAHANYELAY", "TINGKI", "MAKKE", "GRAZIE", "PALSIES", "BOLZIN", "MERCY".