

Distributed Software Development

The Development Group

Real-Time Bridge Monitoring Requirements & Design

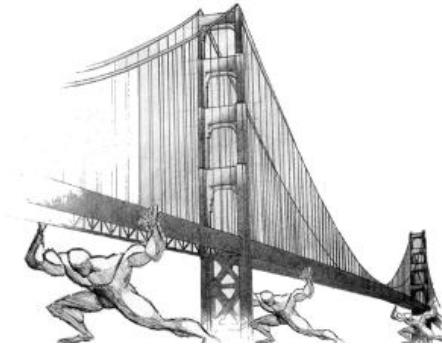


Overview (I)



- 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

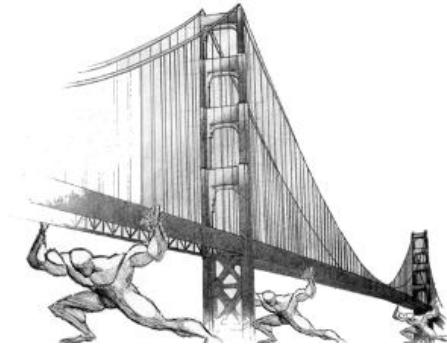
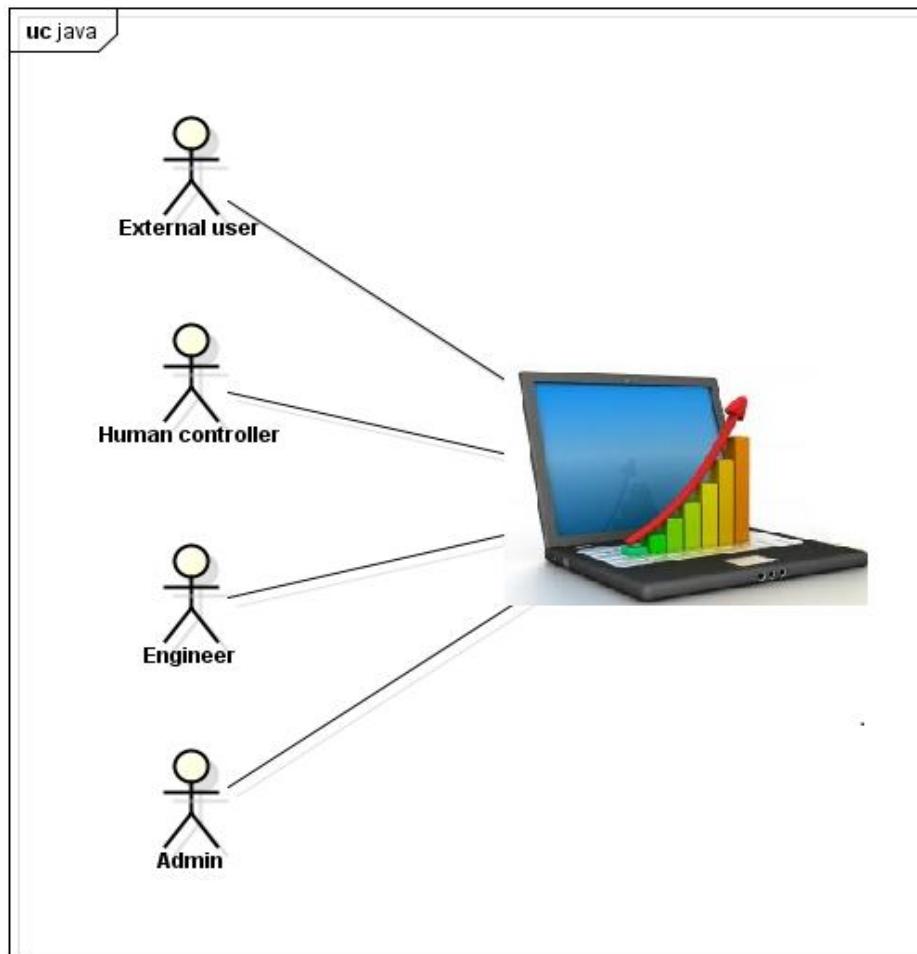


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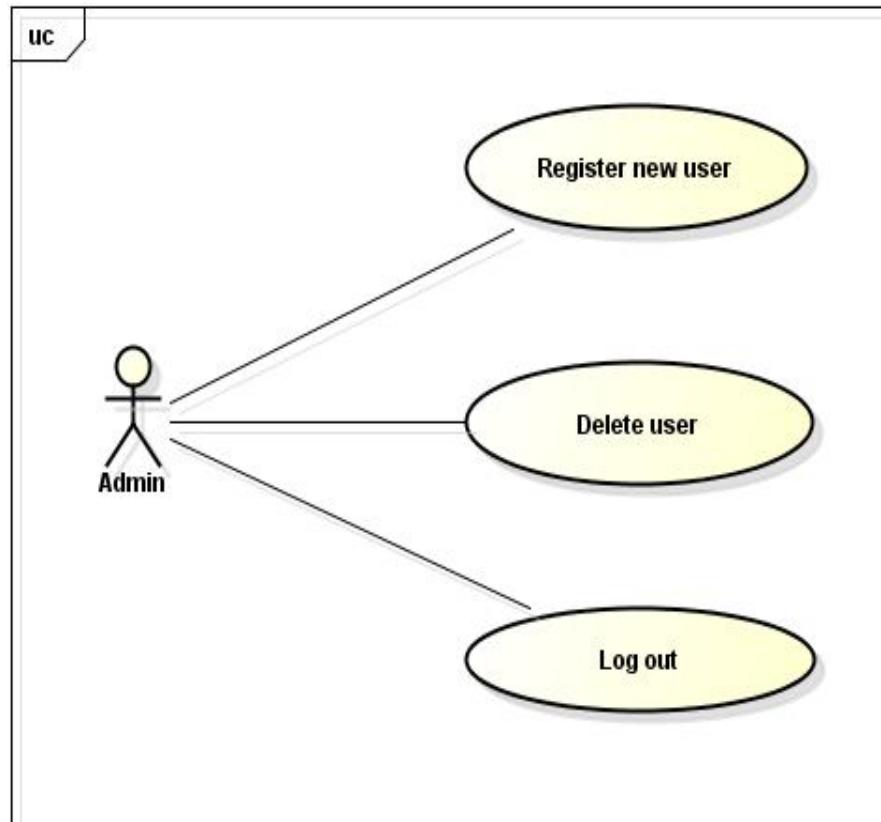


Dzana Kujan (MDH) Jörn Tillmanns (MDH) Miraldi Fifo (MDH) Nikola Radisavljevic (MDH)

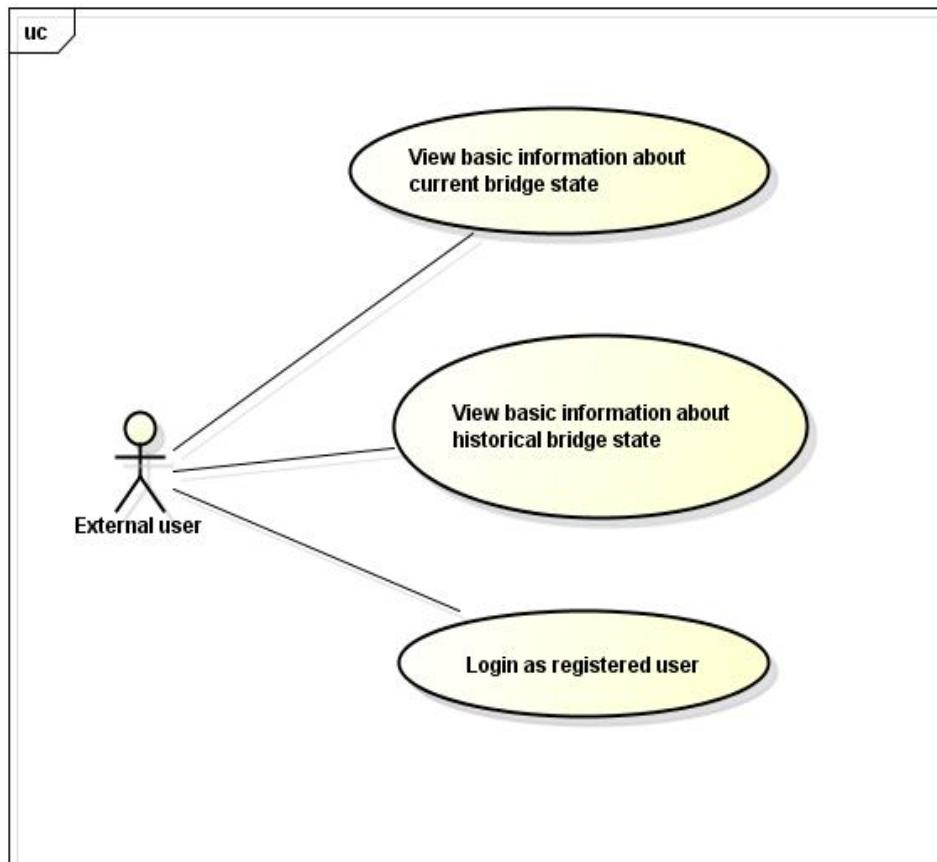
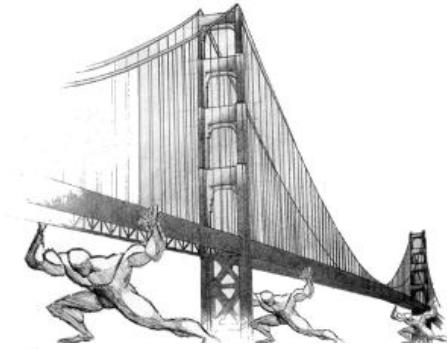
Use Cases



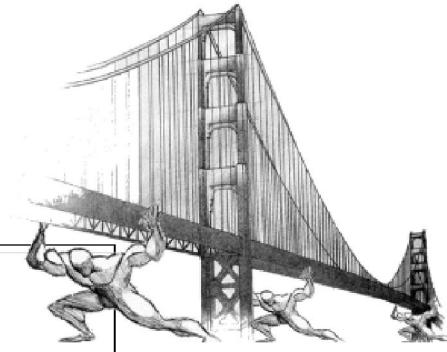
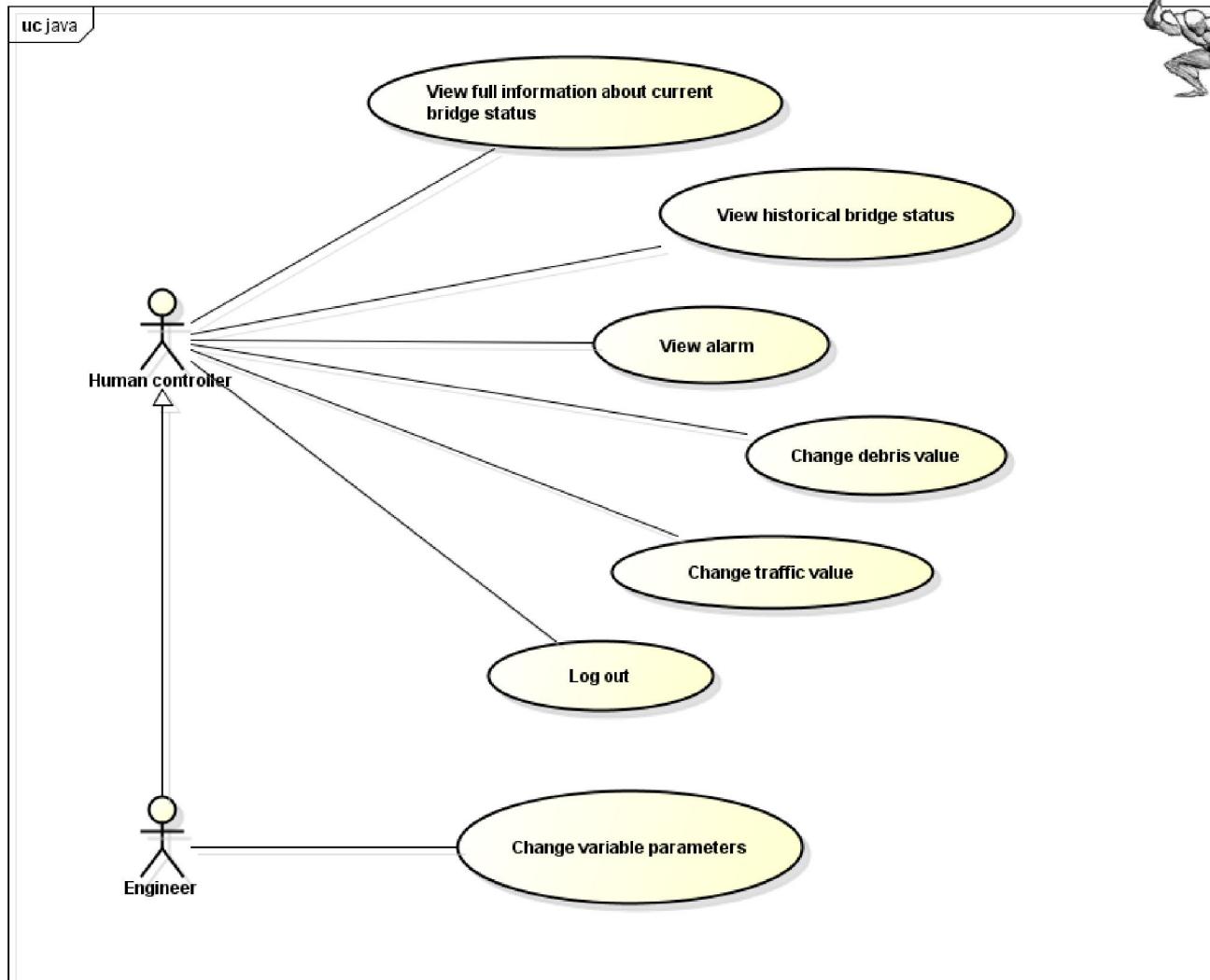
Use Cases



Use Cases



Use Cases



Mock-up for Human Controller

Web Page <http://bridgemonitoring.it/Current>

[Current state](#) > [History](#) [www.forecast.it](#) [Logout](#)

Current sensor values:

Anemometer	<input type="text"/>
Sonar	<input type="text"/>
Hydrometer	<input type="text"/>

Current level of danger T D

left side  (a)

right side  (a)

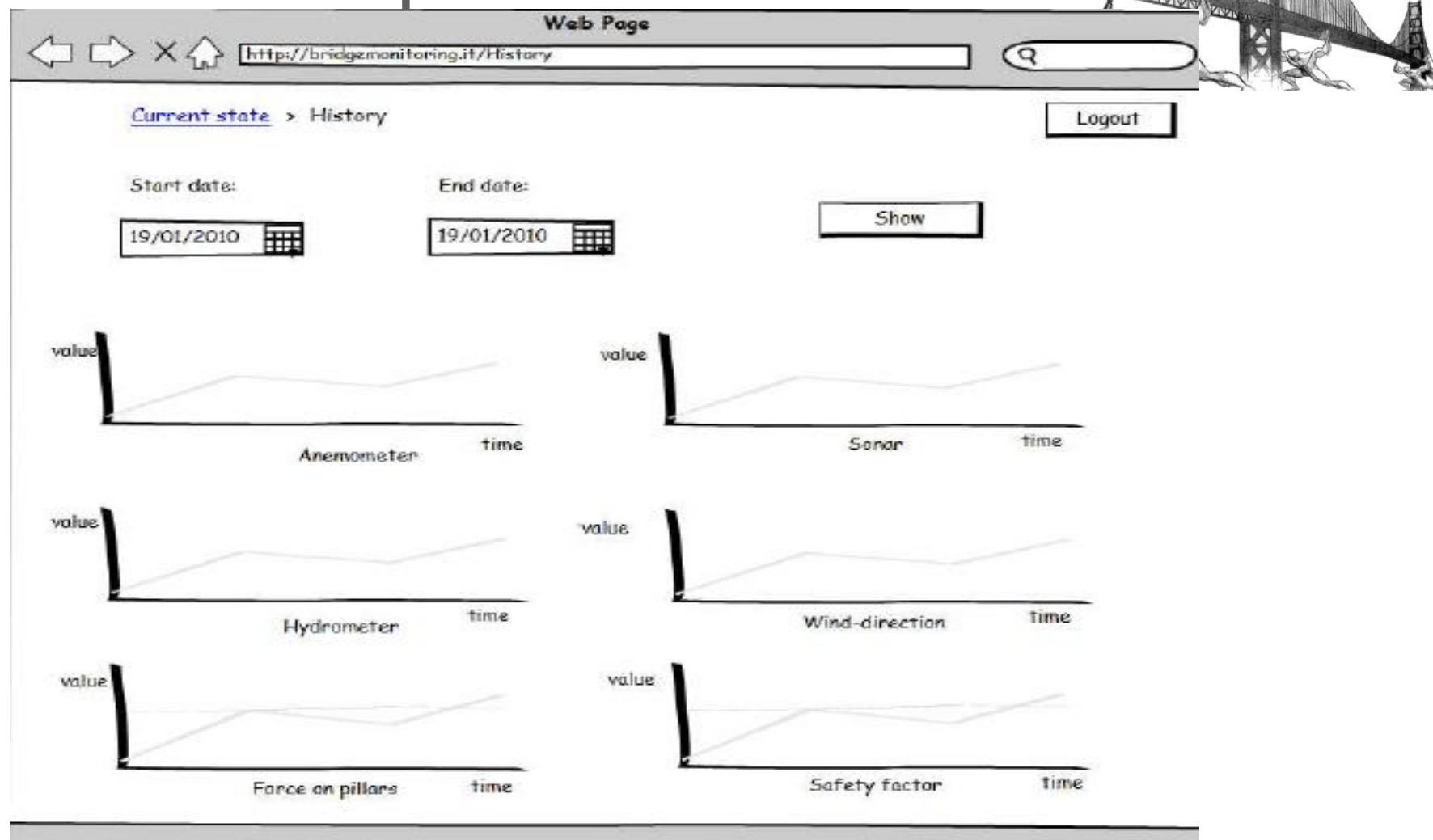
Current day trend:

value	value	value
Anemometer	Sonar	Hydrometer
time	time	time

value	value	value
Wind-direction	Force on pillars	Safety factor
time	time	time



Mock-up for Human Controller



Mock-up for engineer



Web Page

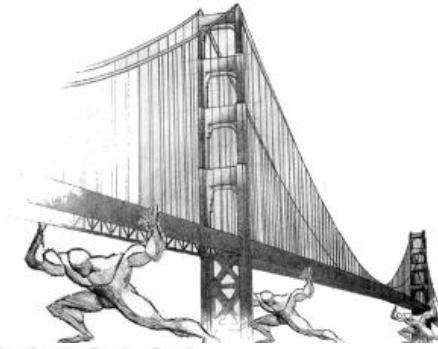
http://bridgemonitoring.it/Engineer

Logout

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

http://bridgemonitoring.it/Admin

Add new user:

Username:

First name:

Last name:

e-mail:

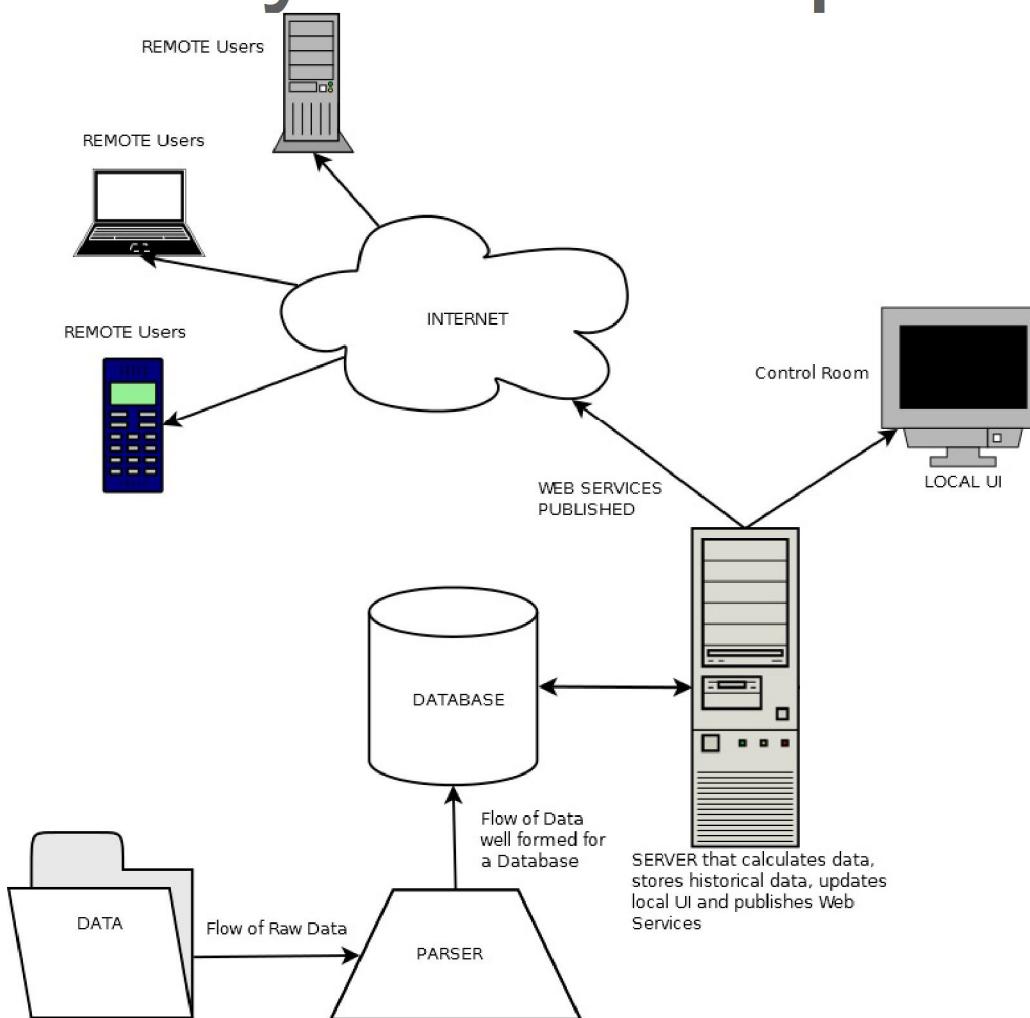
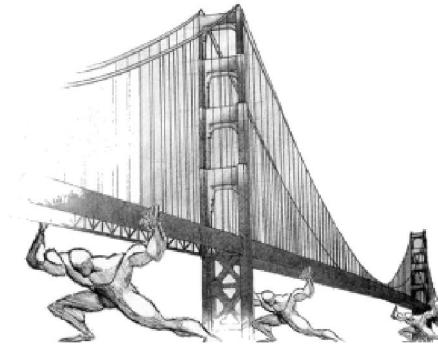
Permission level:

Non-functional Requirements

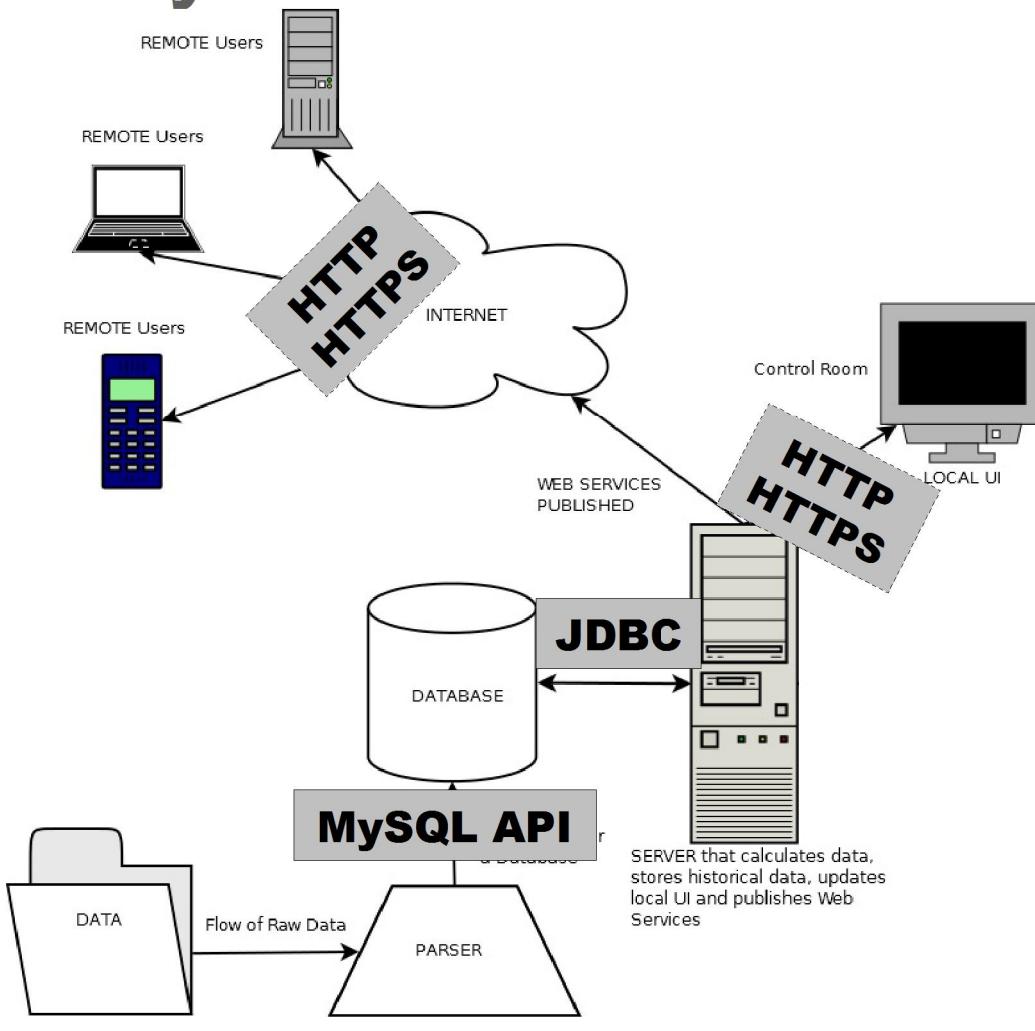


- Confirmation pop-up windows
 - Are you sure to delete this user?
 - Are you sure to change the bounds of risk factors?
- Data updates every 10 minutes – 1 hour
- Different permission levels

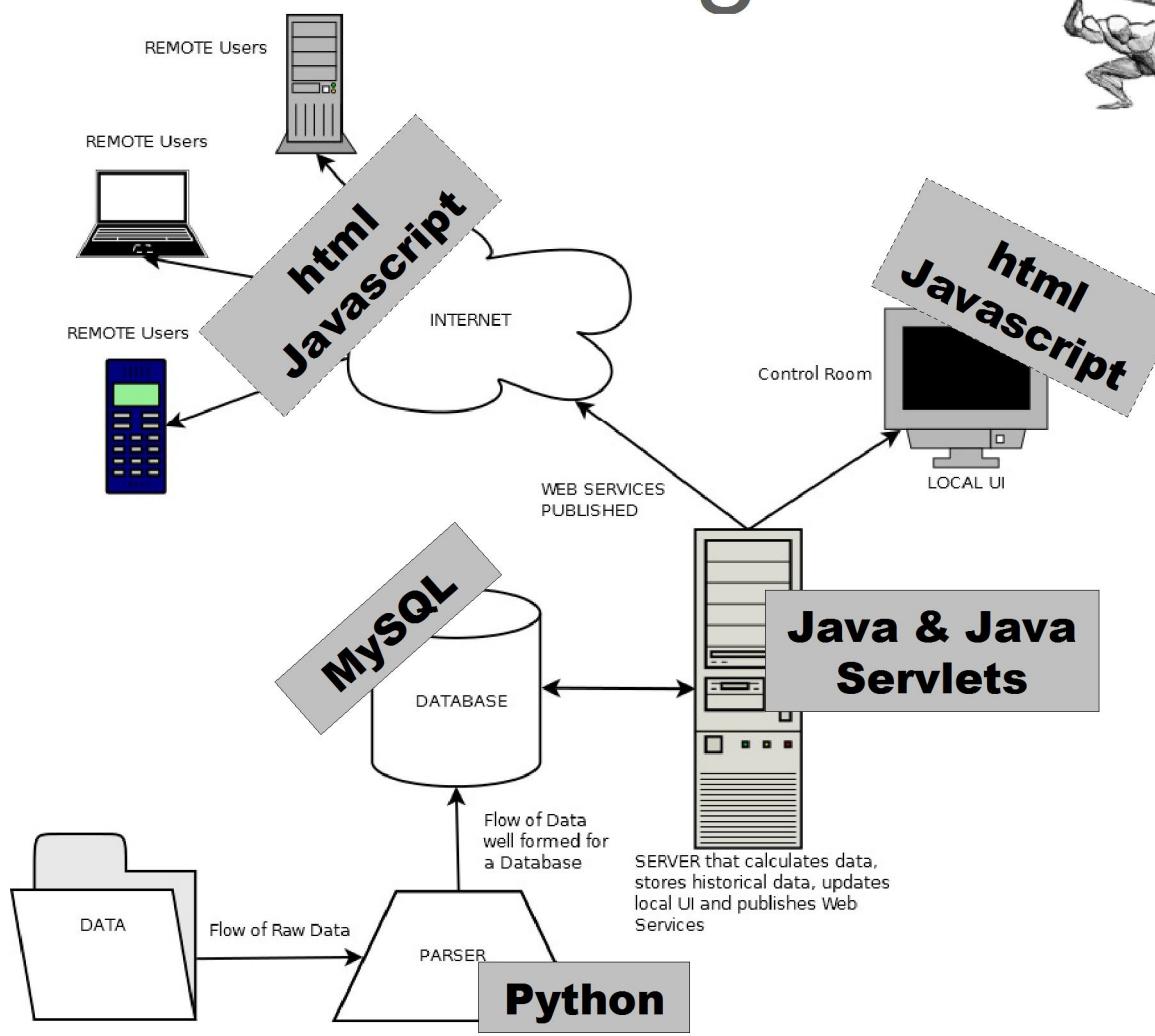
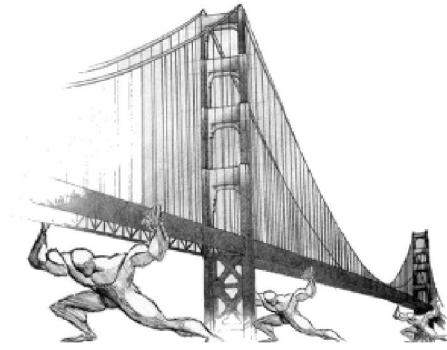
System Scope



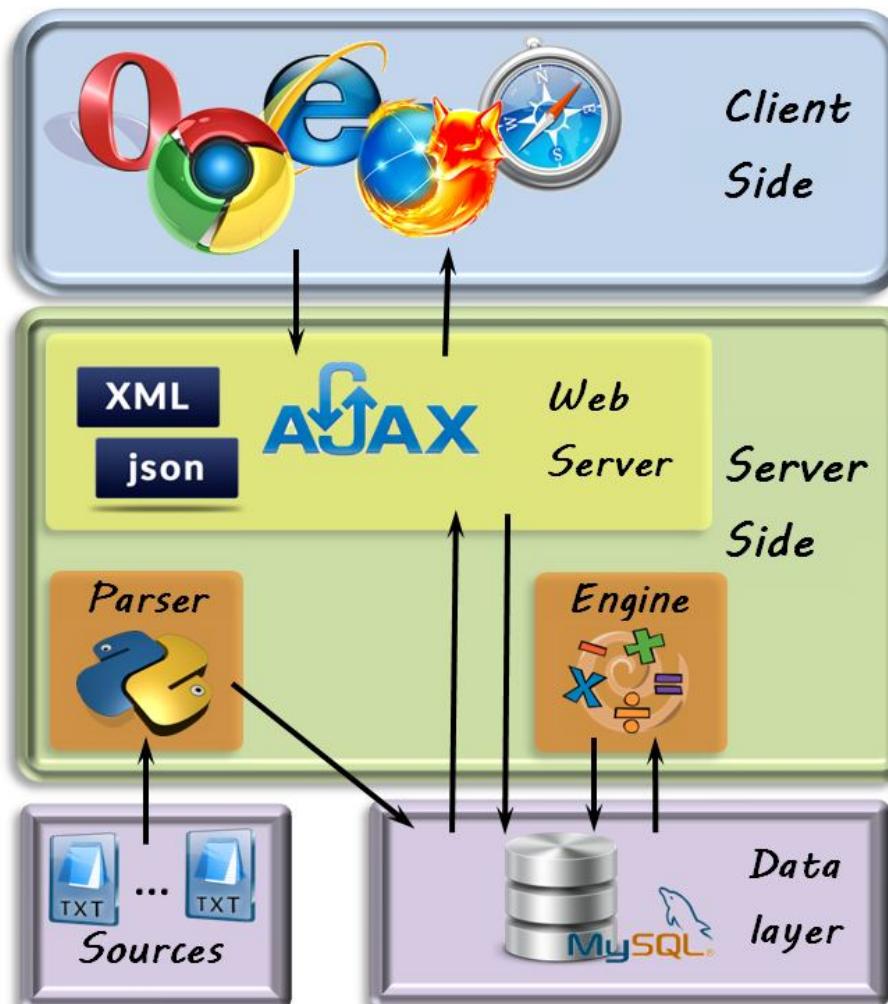
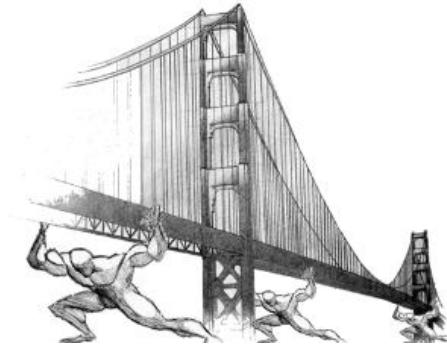
System Interfaces



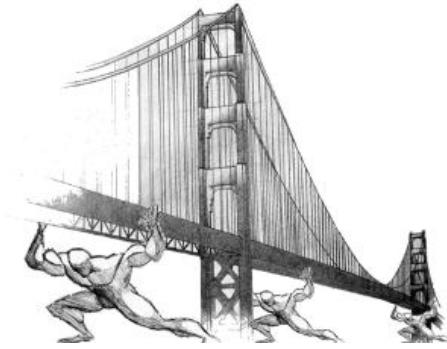
Technologies



Architecture



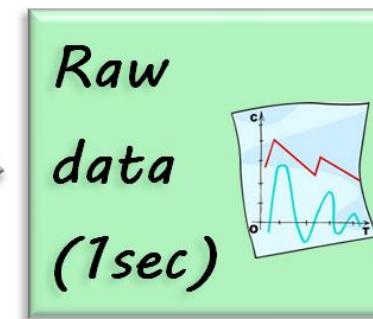
Parser



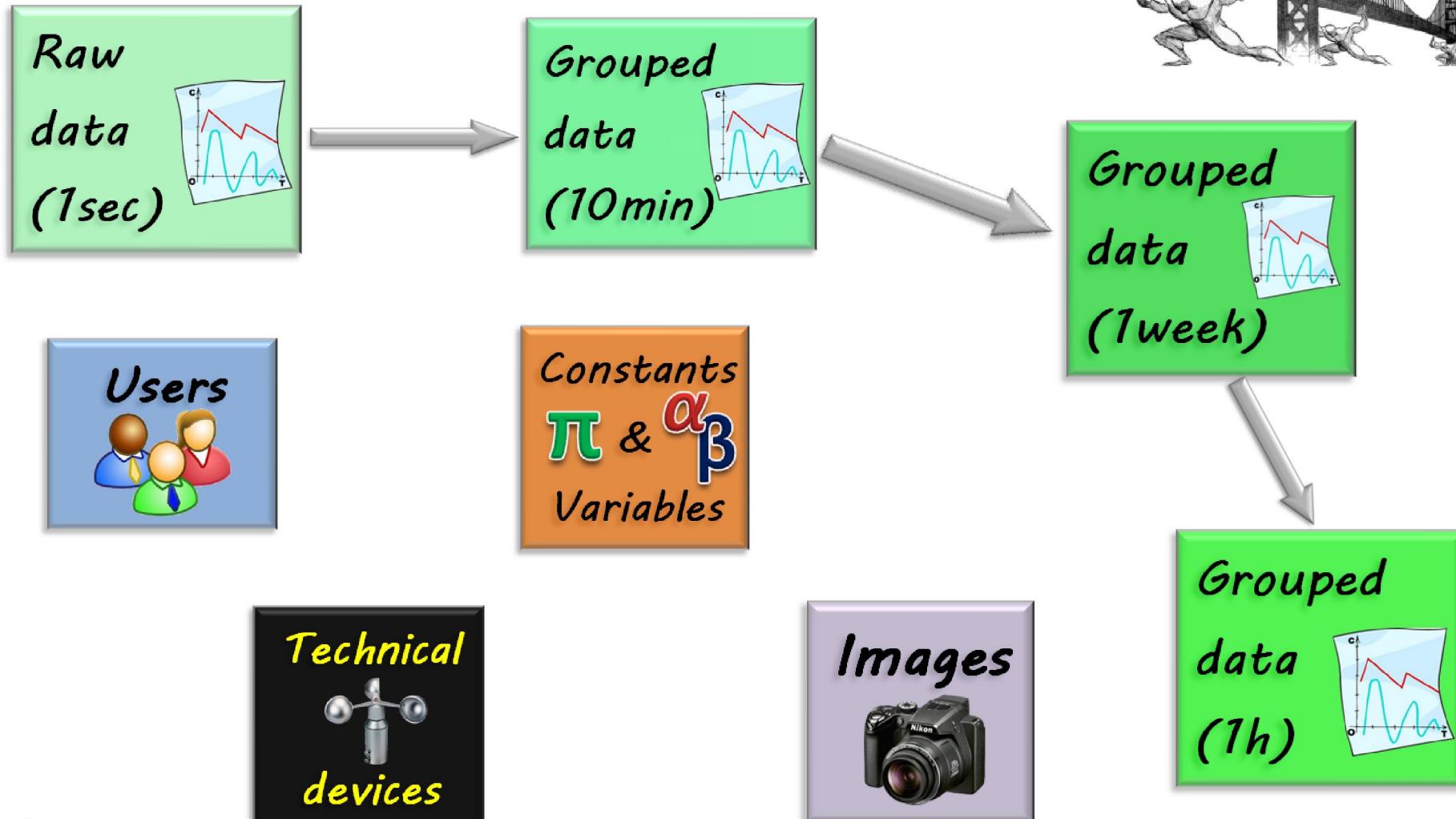
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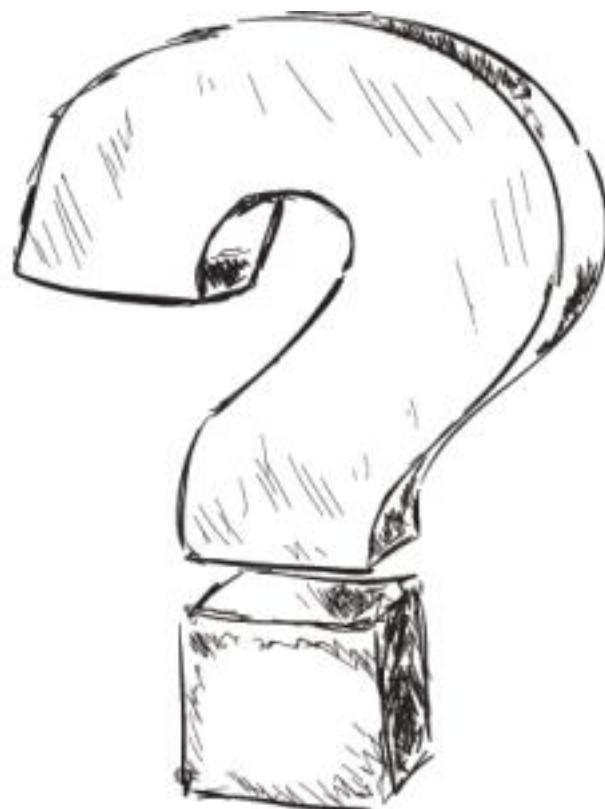
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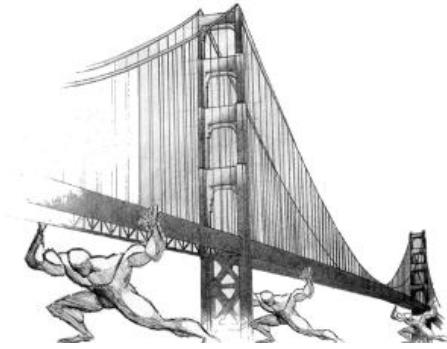
Data Relations



Question Time



Thank You



- Thank you for your attention :-)

DANKSCHÉEN
GRACIAS
ARIGATO
SHUKURIA
JUSPAKAR
TASHAKKUR ATU
YAQHANYELAY
GRÀZIE
MEHVARAN
SUKSAMA
EKHMET
PALDES
TINGKI
BÝVÝAN
SHUKRIA
**THANK
YOU
BOLZÍN MERCI**