

Distributed Software Development



13-12-02



1

MÄLARDALENS HÖGSKOLA



The Development Group

Real-Time Bridge Monitoring Status Report 2



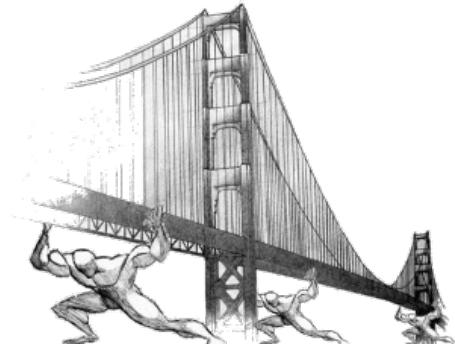
Overview



- Team Organization
 - The Development Group
 - Roles
- Project Status
 - Actual Project Plan
 - Actual Architecture
 - Package Dependencies

Overview

- Meetings
 - Group meetings
 - Customer meetings
 - Supervisor meetings
- Experiences
 - Effort
 - Problems and solutions
 - Positive experiences
- The web site



Team Organization



- The Development Group



Andrea Bottoli (PoliMi)



Lorenzo Pagliari (PoliMi)



Marko Brčić (FER)



Dzana Kujan (MDH)



Jörn Tillmanns (MDH)



Miraldi Fifo (MDH)



Nikola Radisavljevic (MDH)

Team Organization

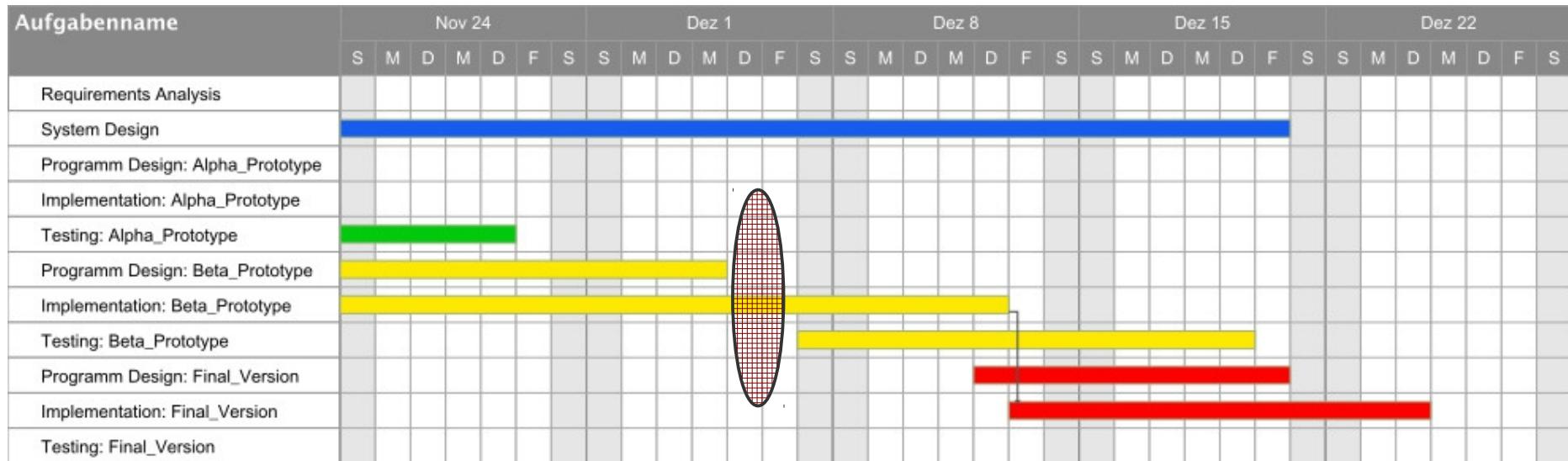
- Roles



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

Project Status

- Actual Project Plan (I)
 - Where we are and what we have to do





Project Status

- Actual Project Plan (II)

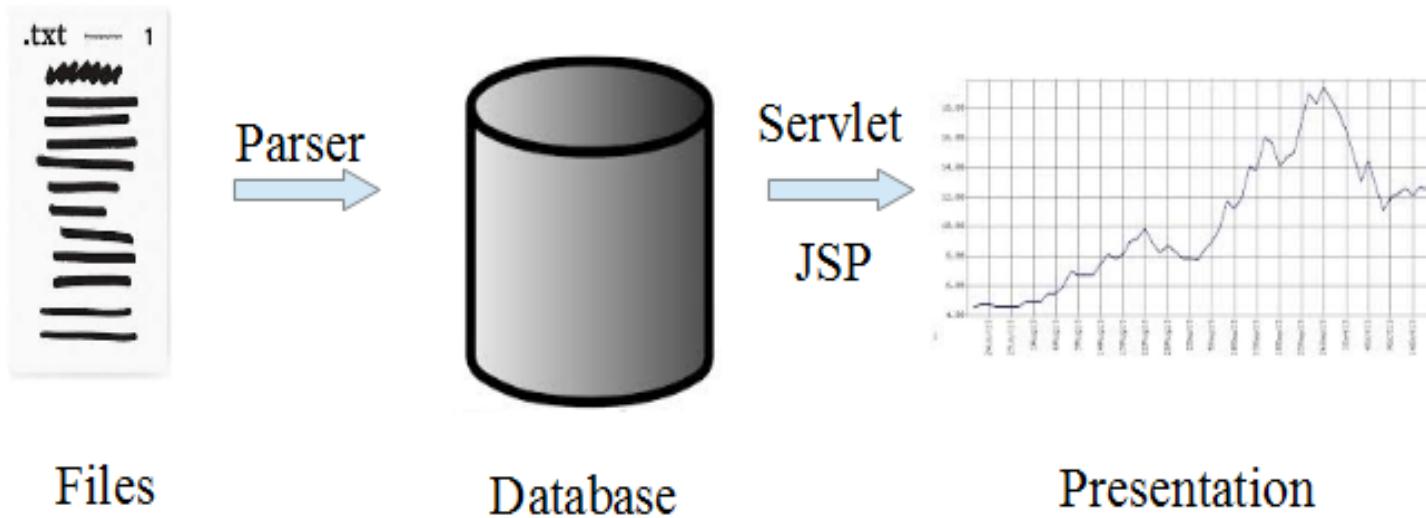
- Alpha Prototype

- Database implementation
 - Scheduler: periodically calls the parser
 - Parser: parses the .txt files and stores in database
 - Webpages
 - Website is running on the VM
 - Acceptance test



Project Status

- Actual Project Plan (II)
 - Alpha Prototype

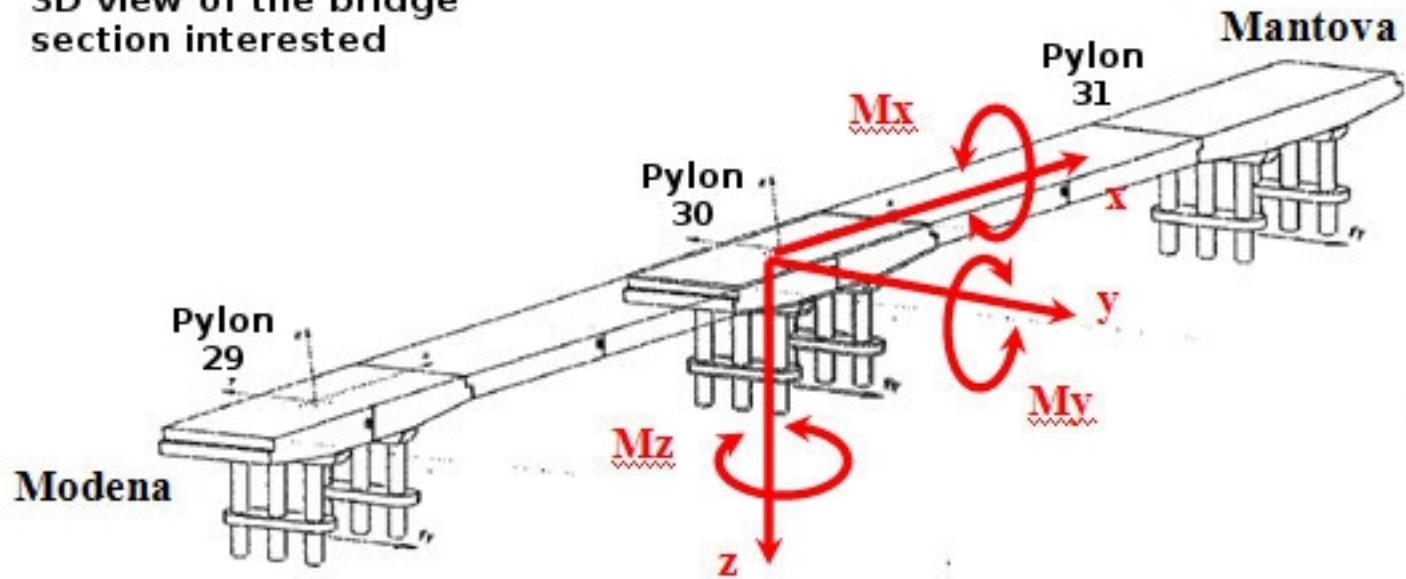




Project Status

- Actual Project Plan (III)
 - Beta Prototype

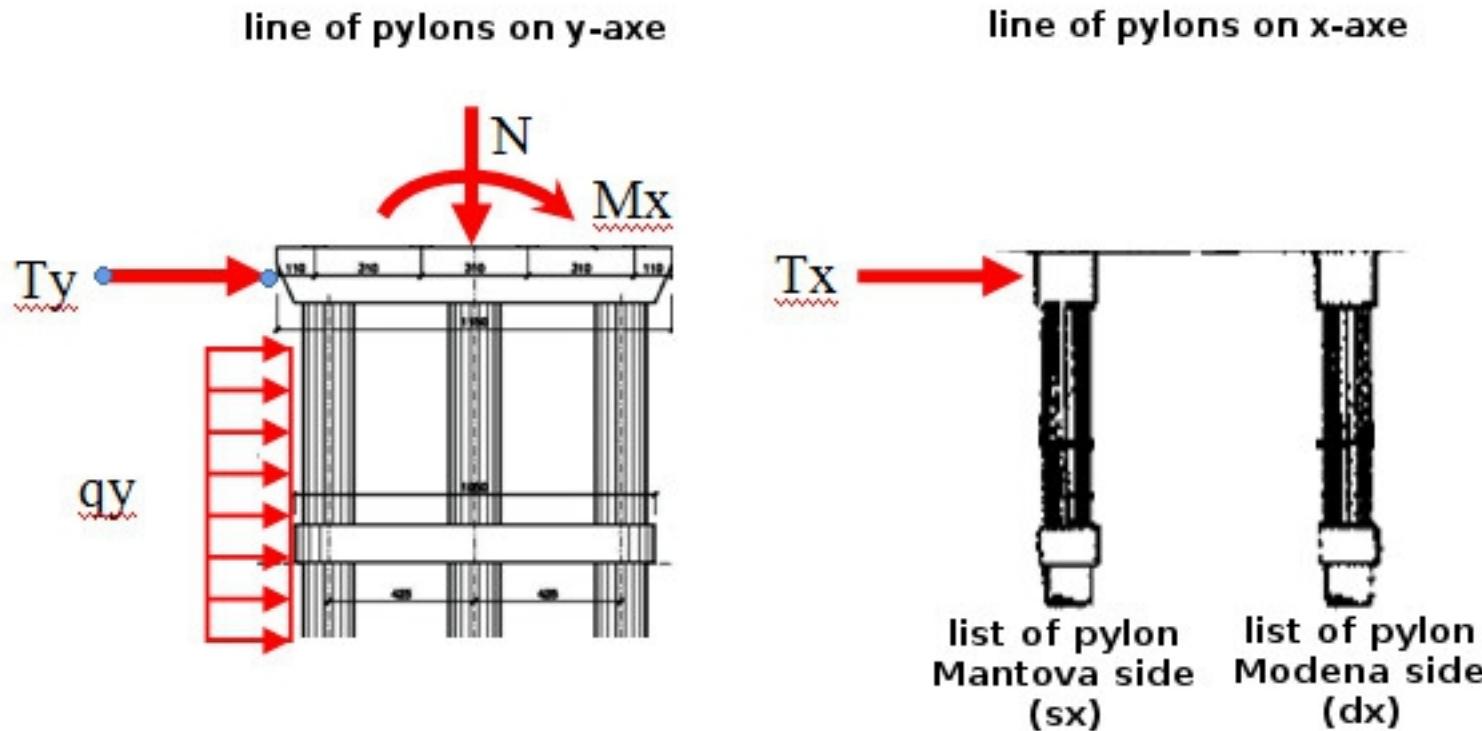
3D view of the bridge section interested





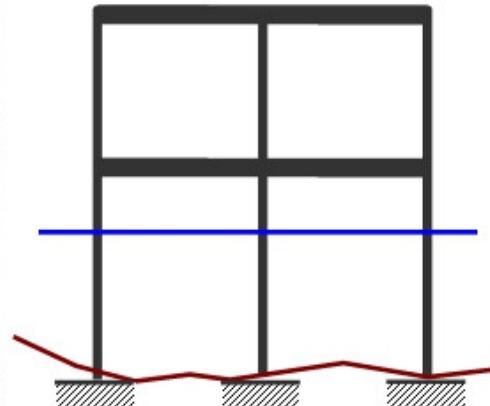
Project Status

- Actual Project Plan (III)
 - Beta Prototype



Project Status

- Actual Project Plan (III)
 - Beta Prototype



Stack 31



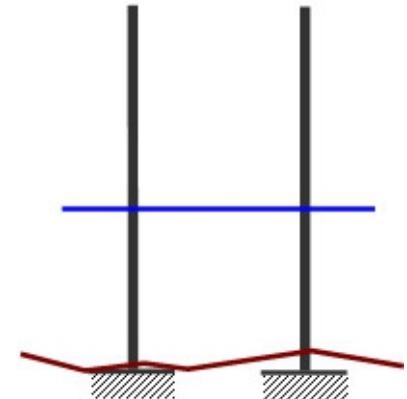
Stack 30



Mantova side
left

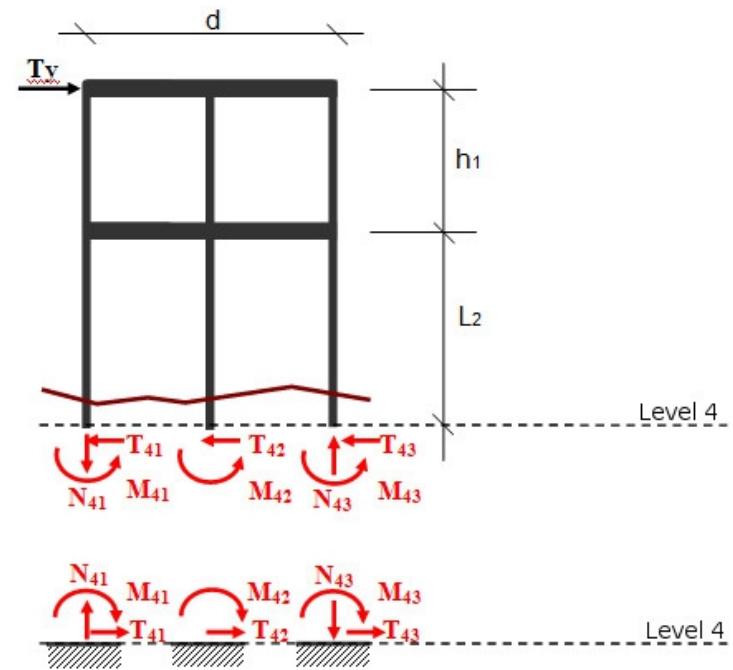
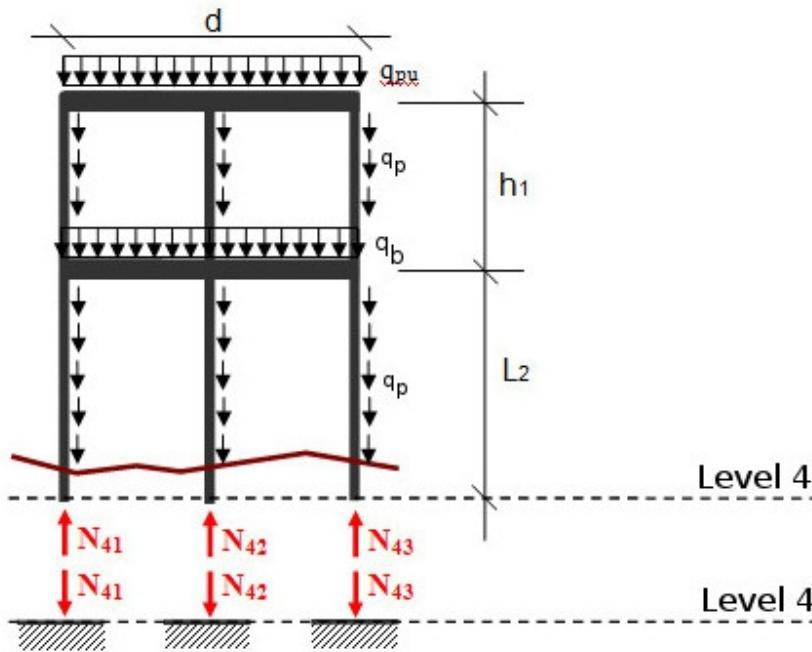
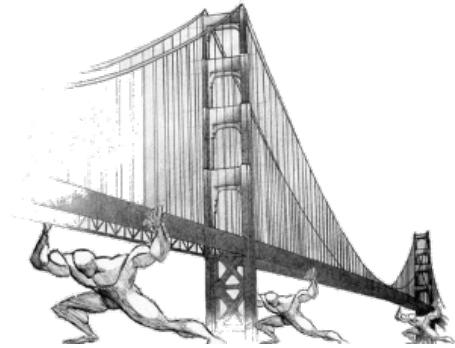


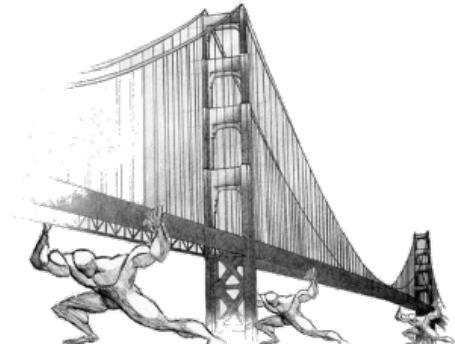
Stack 29



Project Status

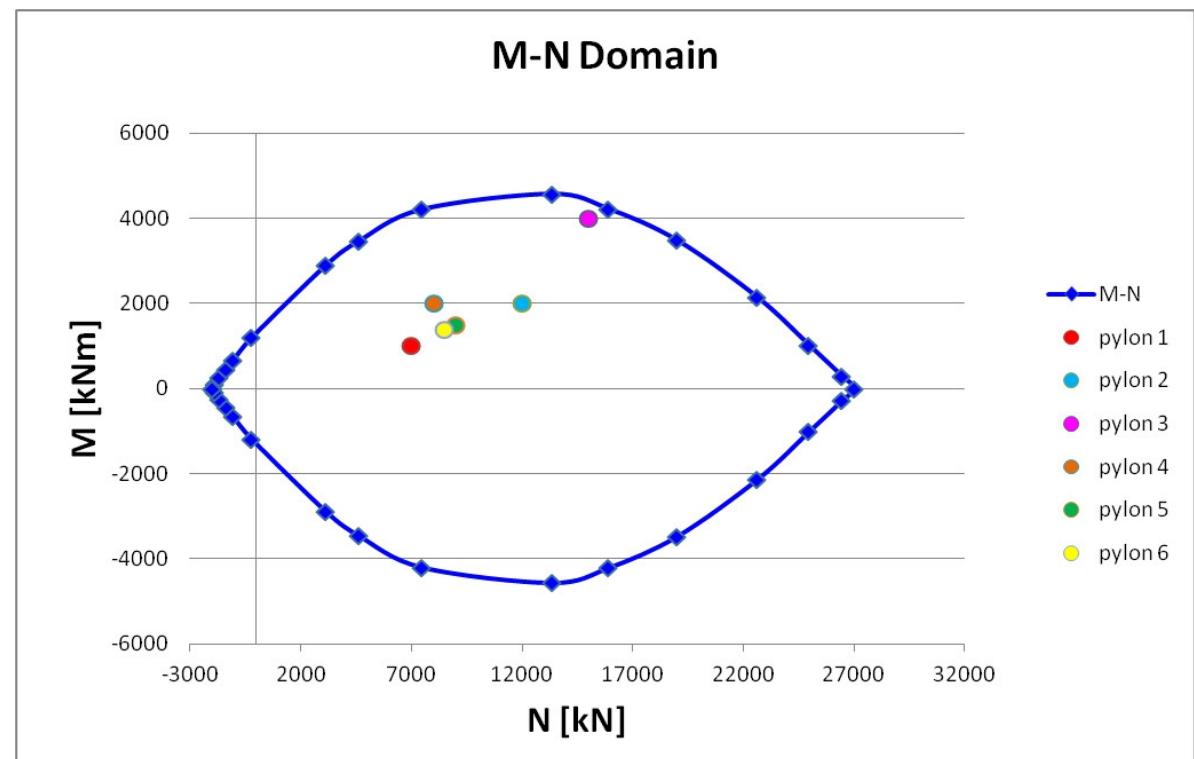
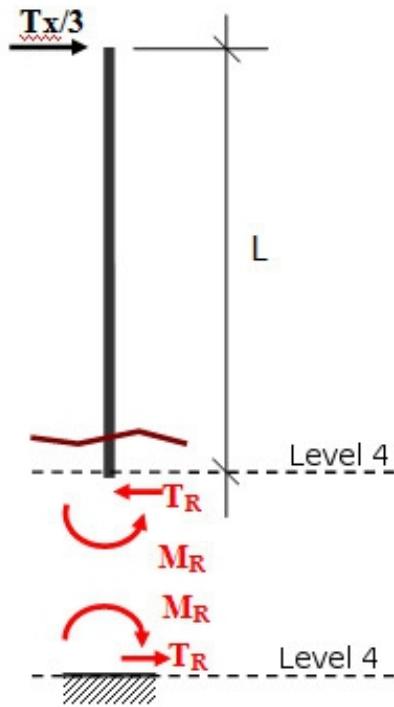
- Actual Project Plan (III)
 - Beta Prototype





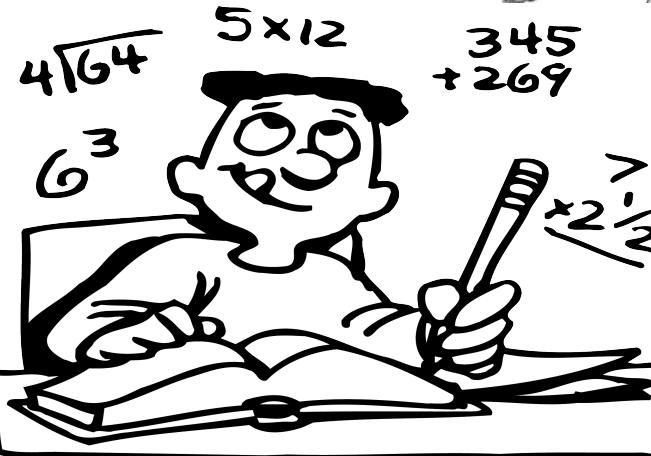
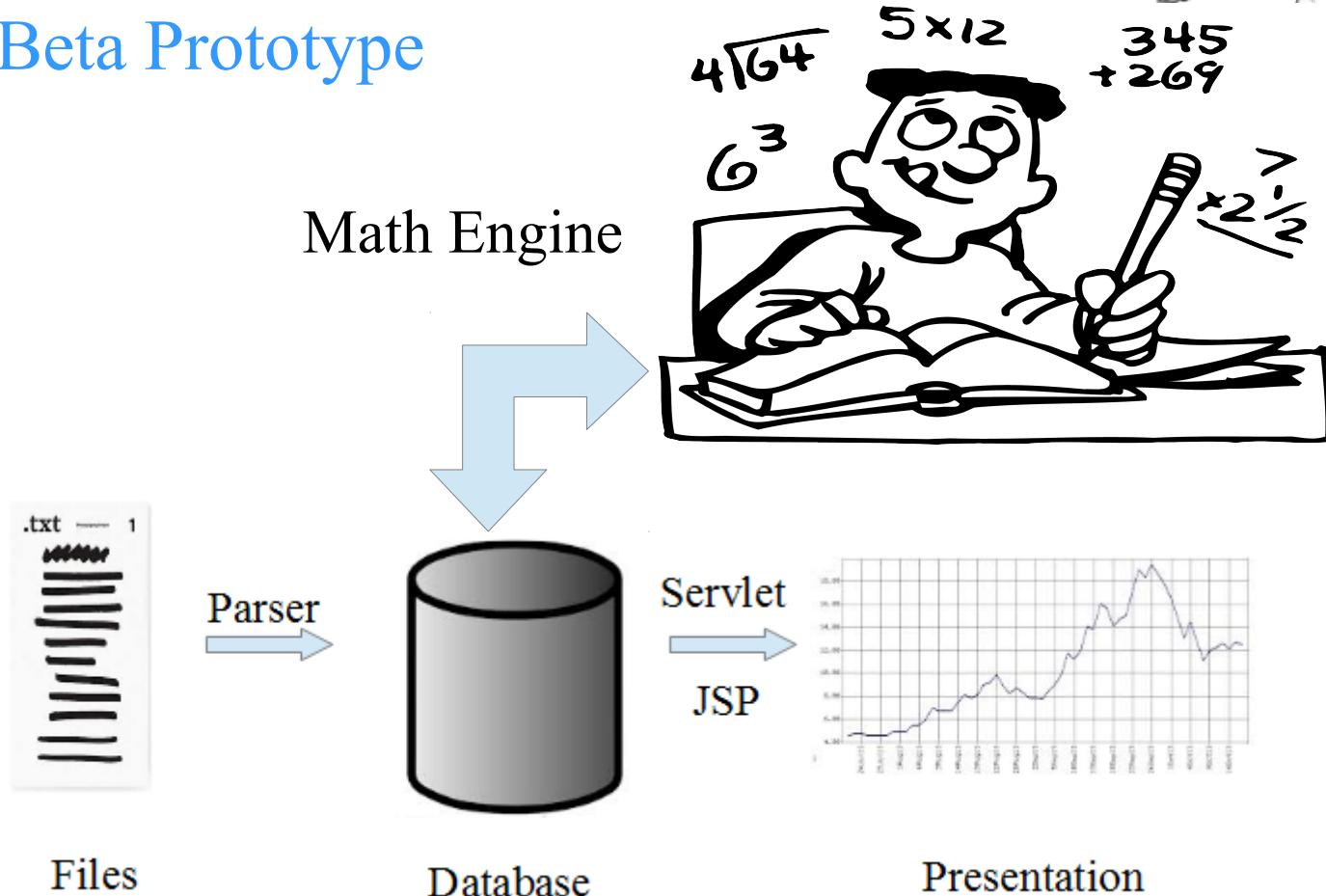
Project Status

- Actual Project Plan (III)
 - Beta Prototype



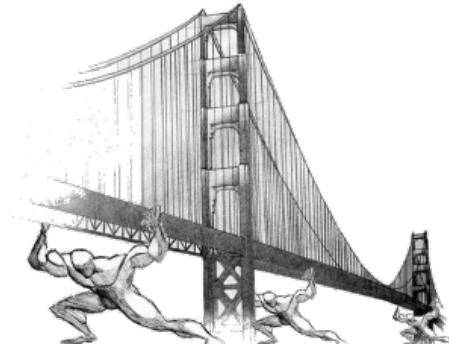
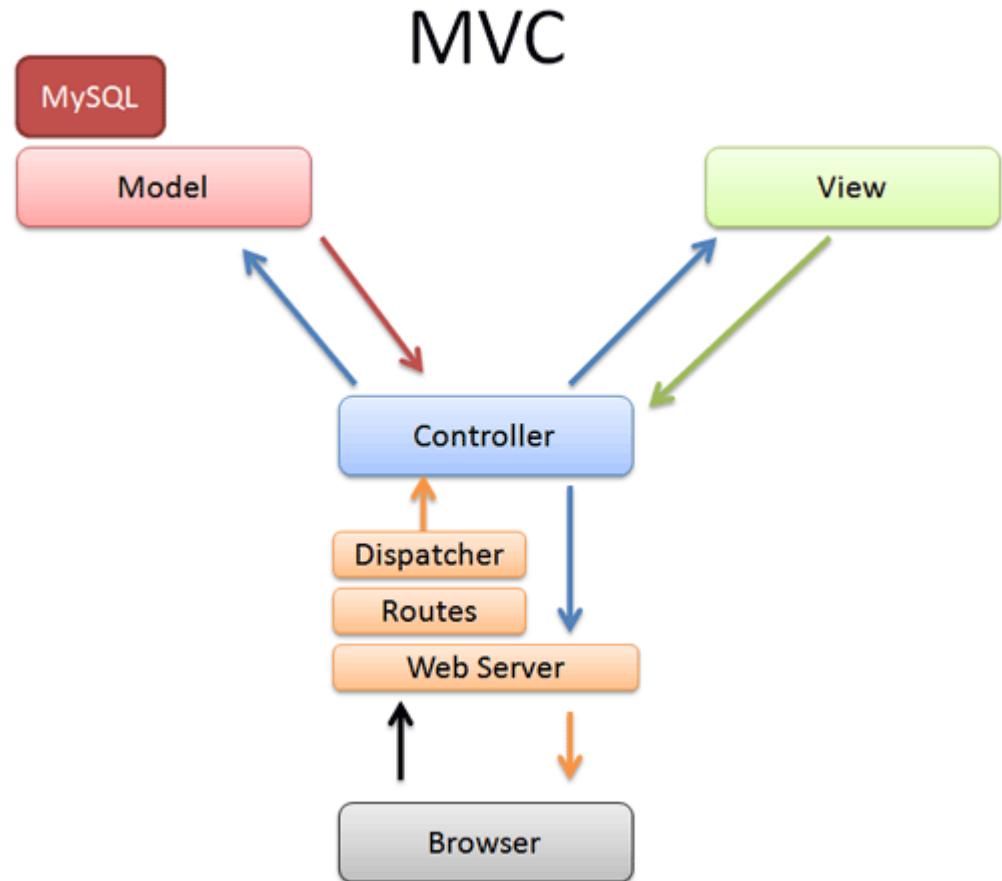
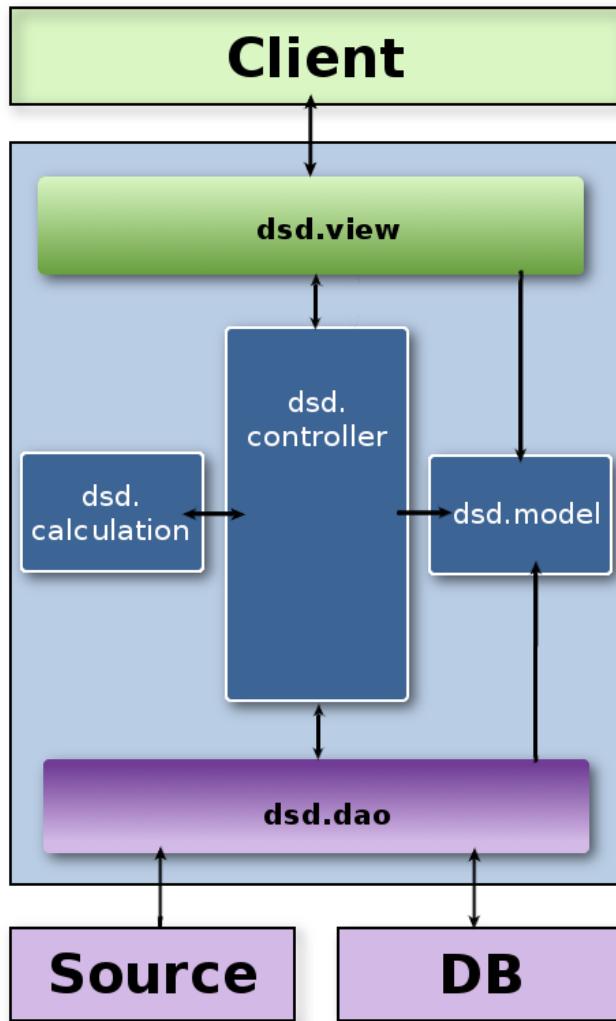
Project Status

- Actual Project Plan (III)
 - Beta Prototype



Project Status

- Actual Architecture



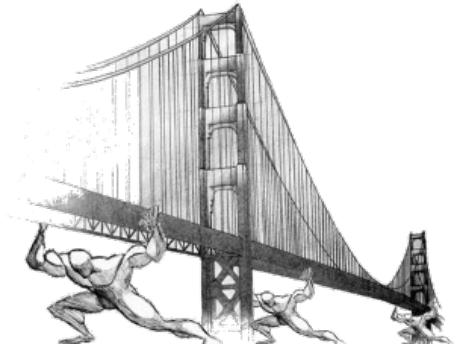
Project Status

- Actual Architecture

- Modules distribution (persons in charge)

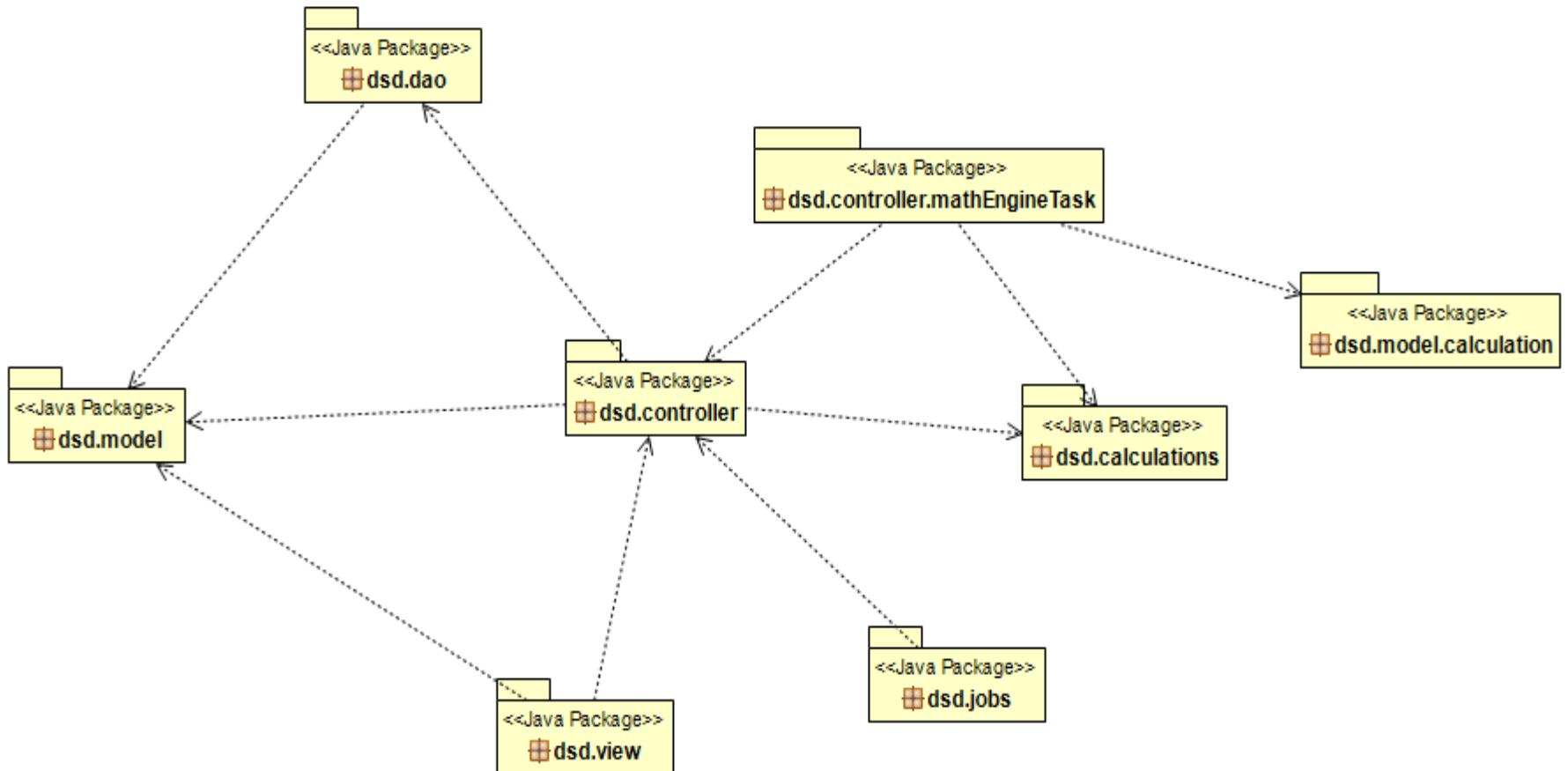
- dsd.dao
 - Marco Brčić and Jörn Tillmanns
 - dsd.controller
 - Each member creates what he needs
 - dsd.model
 - Each member creates what he needs
 - dsd.calculation
 - Lorenzo Pagliari and Andrea Bottoli
 - dsd.view
 - Dzana Kujan, Nikola Radisavljevic





Project Status

- Package Dependencies



Meetings

- Both chat & video
- Group Meetings
 - Face to face meetings
 - Formally scheduled every Monday and Thursday
 - Chat used everyday by each member of the group
- Project Leader & Team Leader Meetings
 - About every day (during the week)
 - Formally scheduled every Tuesday



Meetings



- Customers Meetings
 - One every week
 - Project status
 - Customers desires
 - Requirements
 - First one with both customers
 - Ing. Francesco Ballio
 - Ing. Gianluca Crotti
 - The others with ing. Crotti

Meetings

- Supervisors Meetings
 - One every week
 - Inform about
 - Project status
 - Group status & managing
 - Report about customer meetings
 - Gather advices, suggestions and proposals
 - Report problems



Experiences

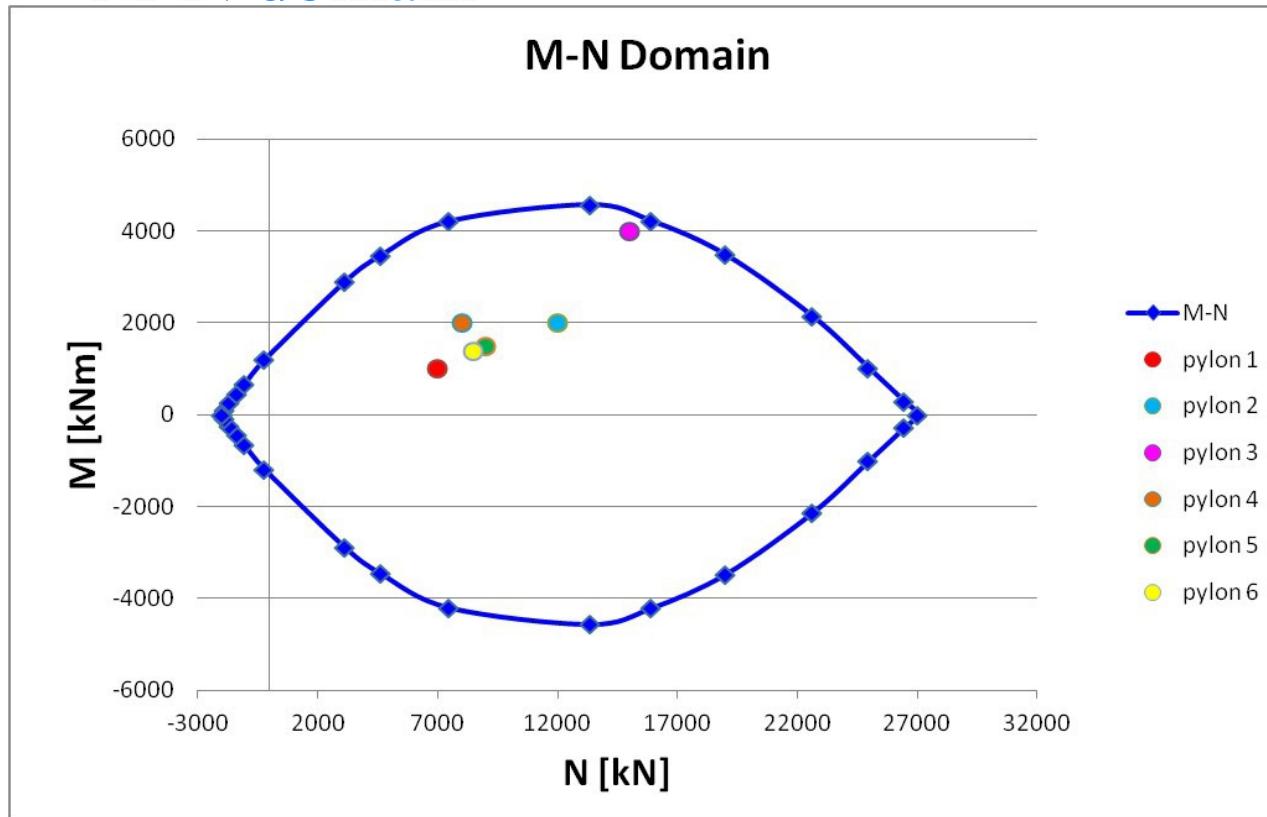


- Effort

Member	W42	W43	W44	W45	W46	W47	W48	Total
Andrea Bottoli	11	40	50	45	47	68	40	301
Lorenzo Pagliari	10	37	53	51	46	57	37	291
Dzana Kujan	9	36	43	36	27	36	27	214
Marko Brcic	11	40	54	60	28	36	26	255
Jorn Tillmanns	9	37	51	43	20	13	39	212
Nikola Radisavljevic	9	37	45	36	26	35	26	214
Miraldi Fifo	9	38	45	35	16	28	14	185
Ghazaleh Shojaee	-	-	53	13	7	7	-	80
Total	68	265	394	319	217	280	209	1752

Experiences

- New Requirements
 - M-N domain



Experiences



- New Requirements
 - Conform to NTC 2008 and EU 305/2011
 - Technical Standards for Constructions
 - Law in Italy to conform to the European Directive EU 305/2011
 - Part of European Directive 86/106/CEE
 - CPD (Construction Products Directive)
 - Defines a standard domain in which every component of a structure can be without nor severe changes on its state from a static point of view

Experiences

- New Requirements
 - <<NEW MOCKUPS>>

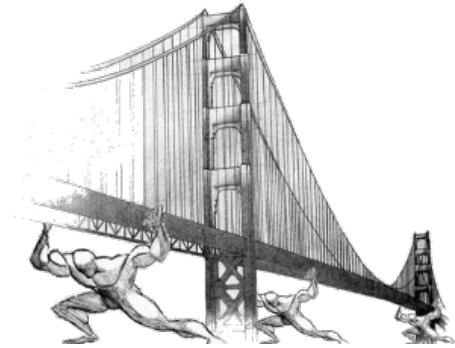


Experiences



- Changes in documentation
 - Requirement document
 - 3 versions, working on the 4th (the final one)
 - Design document
 - 3 versions, working on the 4th
 - Input and Conversions
 - 5 versions, now it is complete

Experiences



- Problems
 - Communication
 - Management
 - Inefficient meetings
 - Technologies not familiar to all
 - Setting up environment
 - Being late for meetings
- Solutions
 - Additional Meetings
 - Tasks on github
 - Meeting agenda introduced
 - Additional hours spent on learning
 - Helping each other :)
 - Chocolate penalties :)

Experiences

- Problems and Solutions

- Ghazaleh

- She decided to left the group
 - Our supervisors told her that her contribution to the project was too small to be considered sufficient for the purposes of this course



Experiences



- Positive experiences
 - Team work
 - Fun meetings :)
 - Everyone is doing a hard work and trying to do the best they can
 - Improved skills and distributed development experience
 - Good collaboration

The Web Site

- Some Screenshots



161.53.67.134/BridgeMonitoring/CurrentStateView

Real-time bridge monitoring

UserName: Password: Submit

Home Current State Parameters History Diagrams

Actual Values

Anemometer: 0.315 m/s
Sonar: 2.19 m
Hydrometer: 17.28625 m

22/03/2011 14:58:40



22/03/2011 15:54:12



Last 24 hours trend:

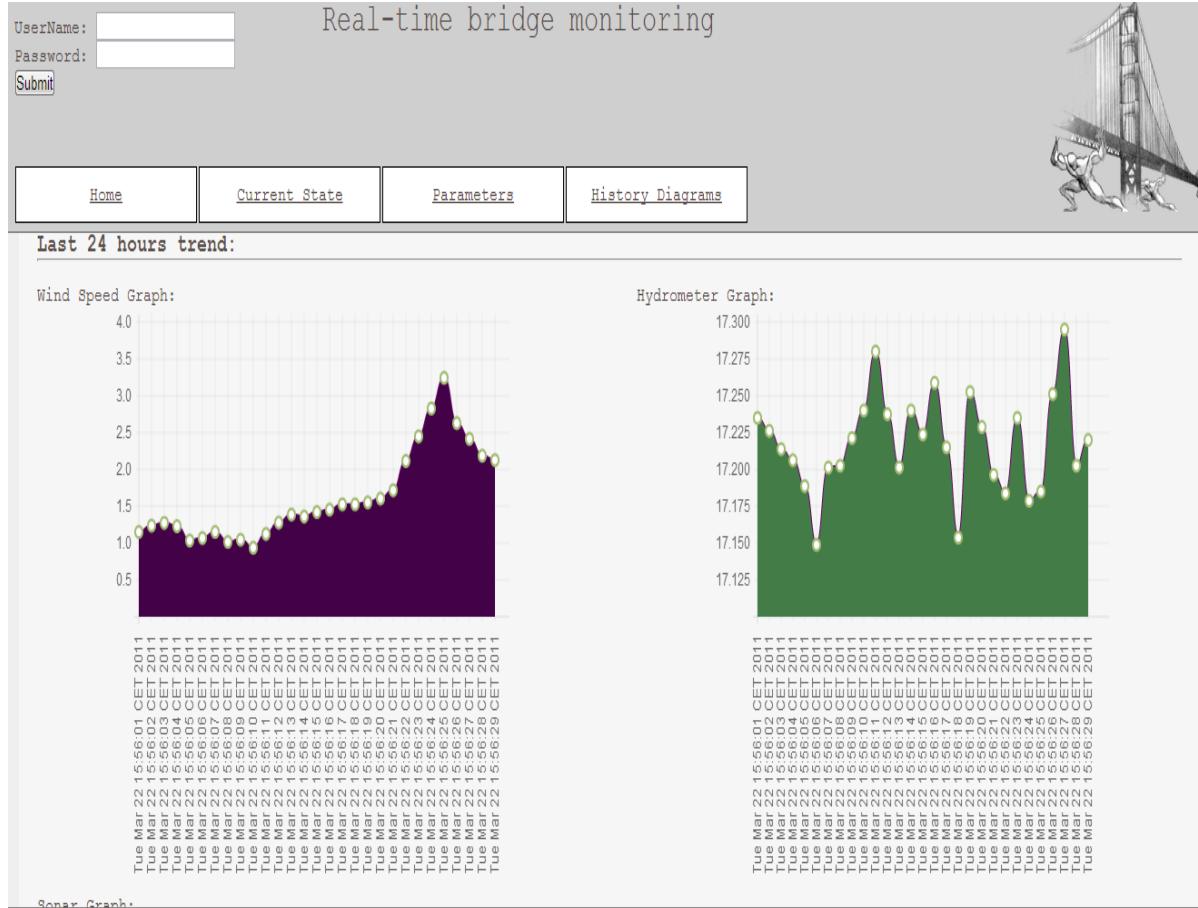
Wind Speed Graph: Hydrometer Graph:

40 17.300 0



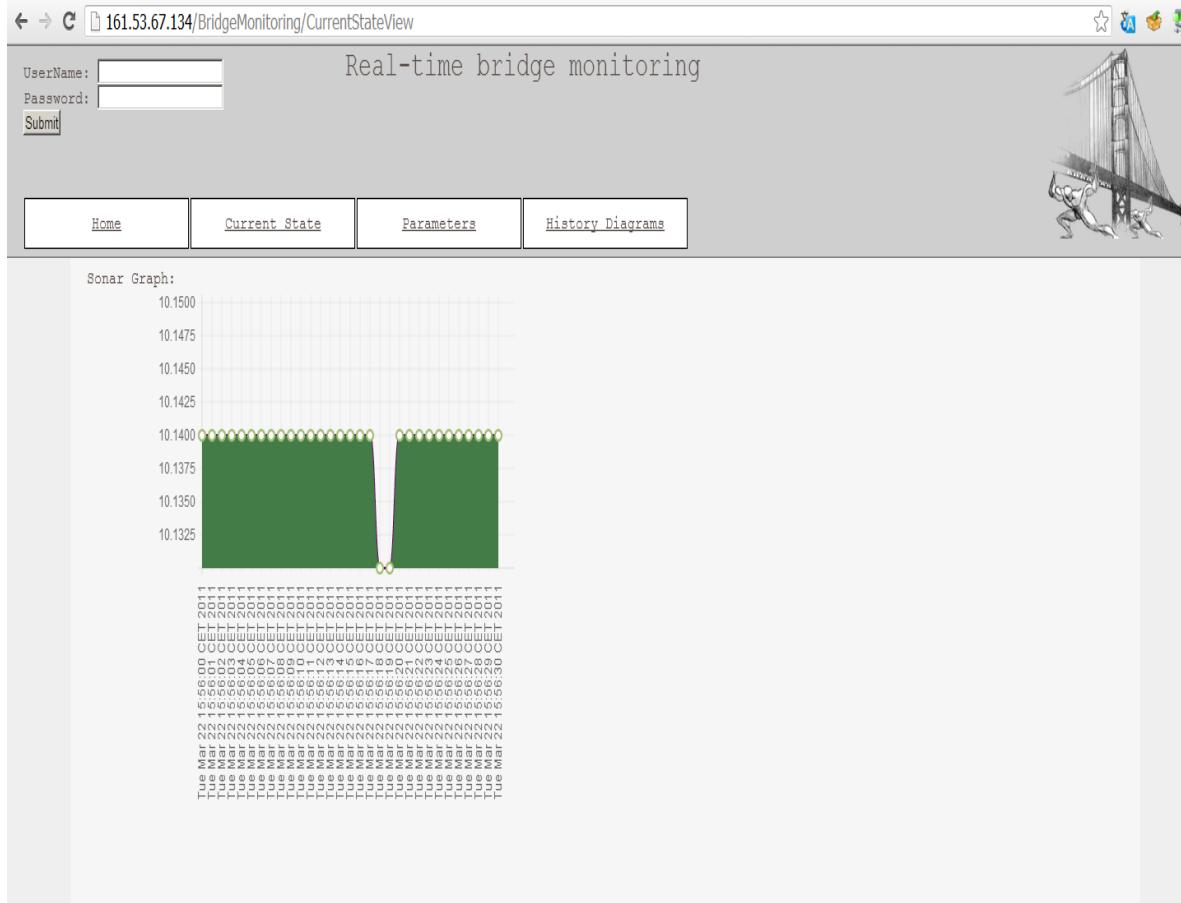
The Web Site

- Some Screenshots



The Web Site

- Some Screenshots



The Web Site

- Live demo
 - <http://161.53.67.134/BridgeMonitoring>



Question Time





Thank you for your attention

