



# Use of Echo2 in WebScope

( WebScope 2 )

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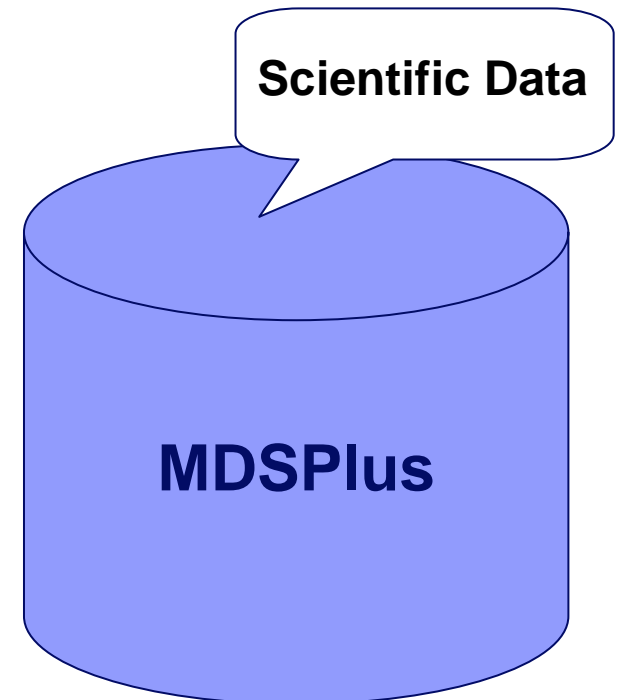
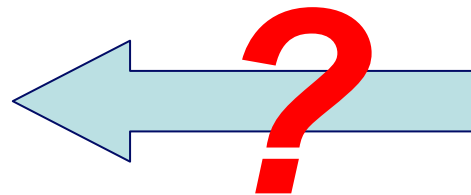
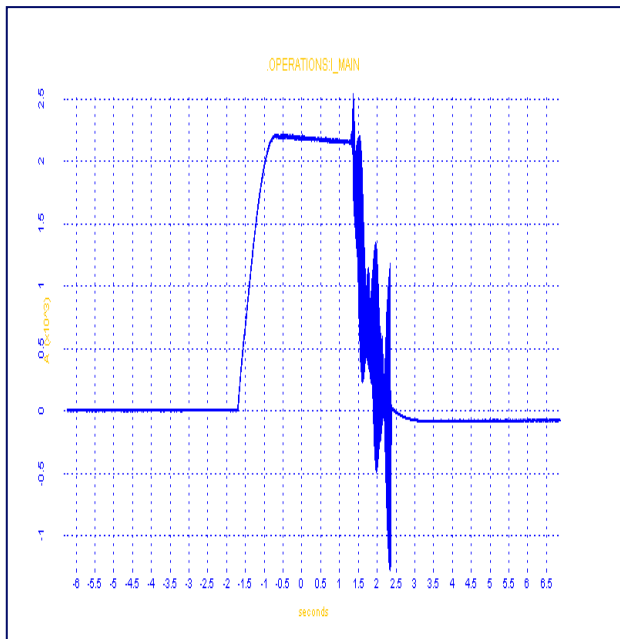
# Content:

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# Background

# What we want:



# Current Solutions:

- **EScope**

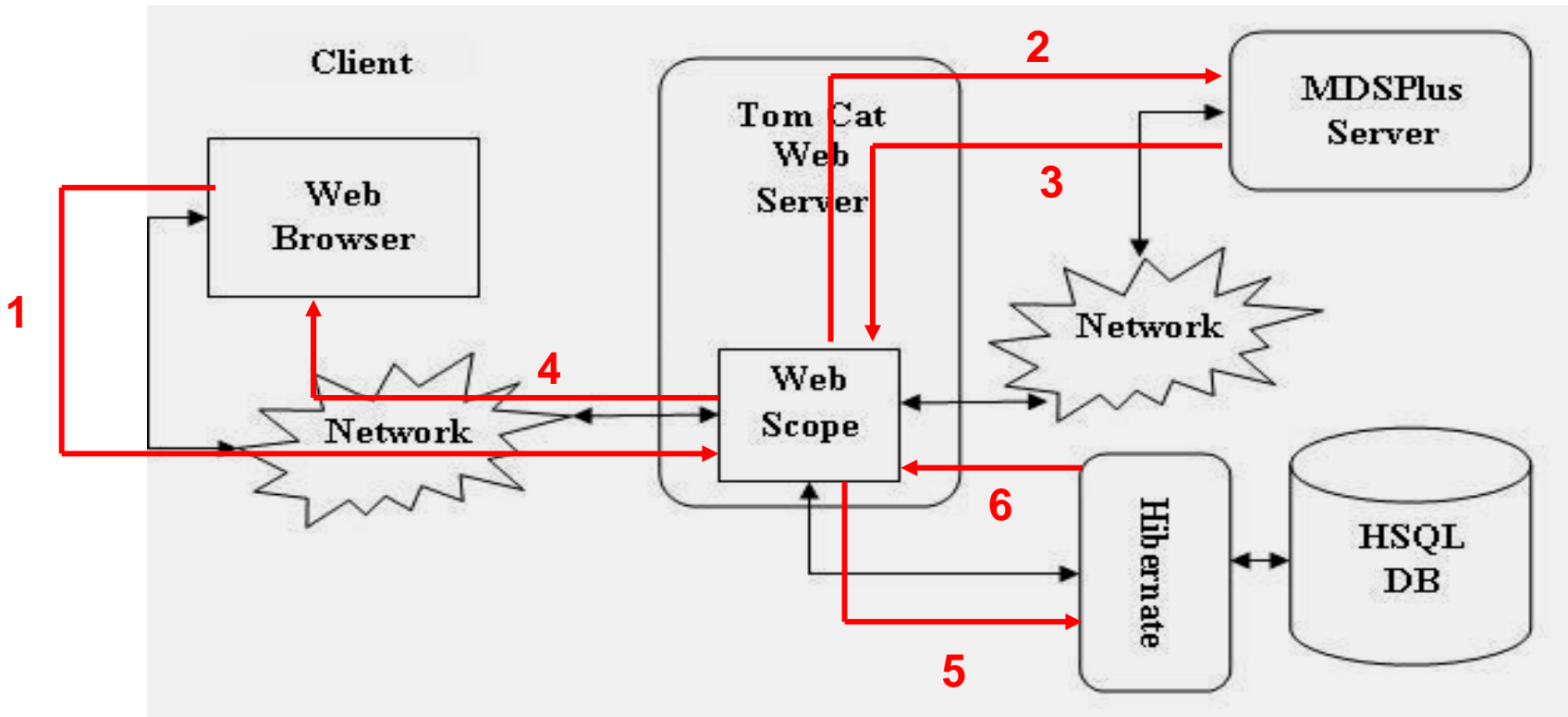
A java-realised scientific data plotting application

**Shortcoming: Users need to download the software**

- **WebScope**

A **web-based**, java-realised scientific data plotting web-application

# Structure of WebScope:



# Shortcomings of WebScope:

- **Users need to download Java Applet**

Java Applet: a plug-in that embedded in HTML page to run web-based java program.

For the first use of WebScope, the user has to download it.

- **Low performance**

From the angle of Ajax

(Ajax is a technology that increases web page's speed.)



# Requirements Analysis

# Main requirements for WebScope2:

No.	Requirement	Purpose	Priority
1	Use Echo2	Enhance performance	High
2	Data Caching	Enhance performance	High
3	Data Download	User Friendliness	High
4	User Authentication	Further Extension	Medium
5	Use Hibernate	Further Extension	Medium

# Key Technologies:

- **Ajax ( Asynchronous JavaScript and XML )**

- ~ only sends and receives updated part(s) in web page
- ~ increases speed

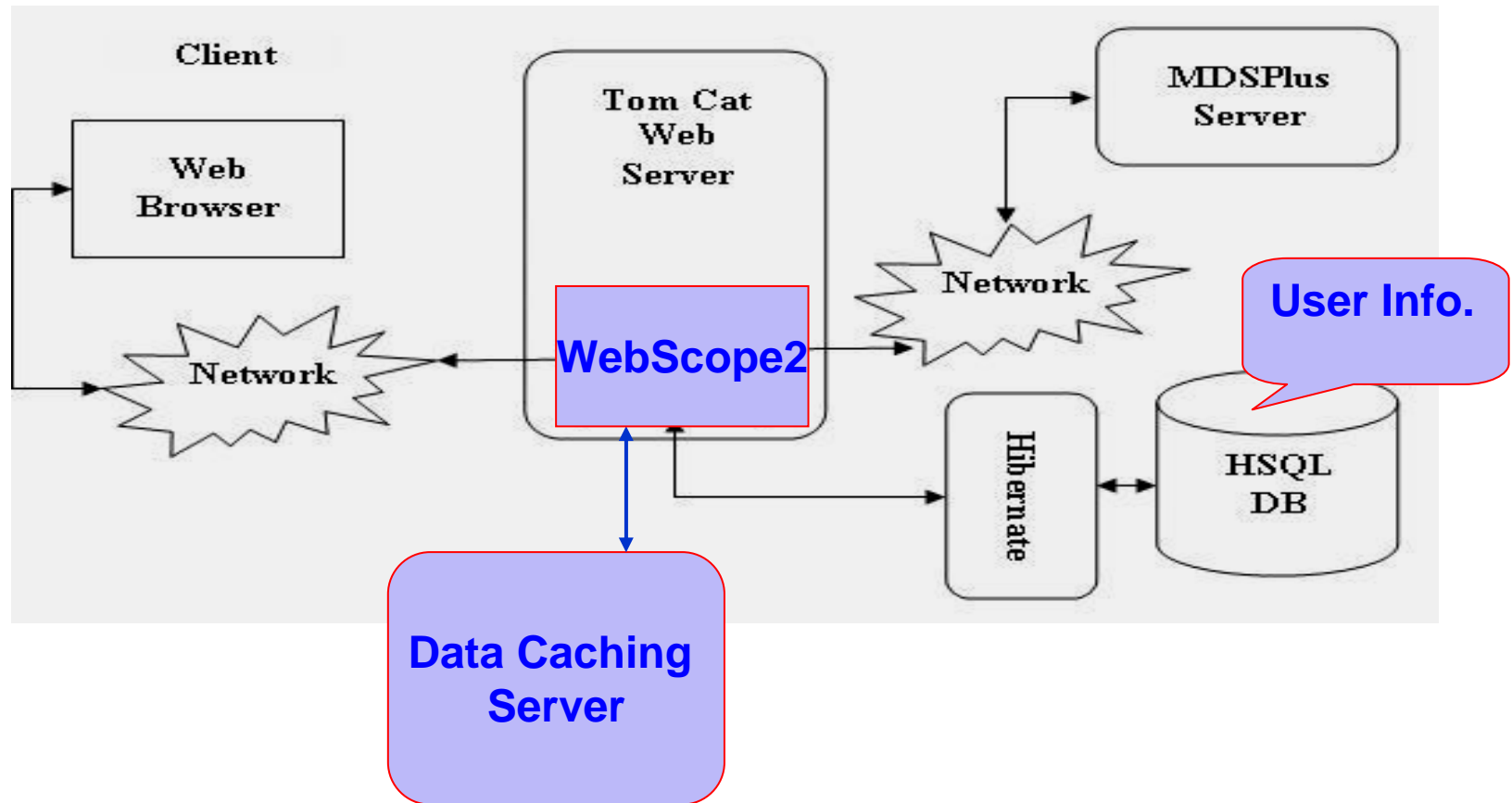
- **Echo2**

- ~ a platform for web page programming in Java
- ~ Ajax-based

- **Hibernate**

- ~ a Java based object/relational mapping solution
- ~ easy for programmers when dealing with database

# Structure of WebScope2:





# Demonstration

# WebScope2 Demonstration

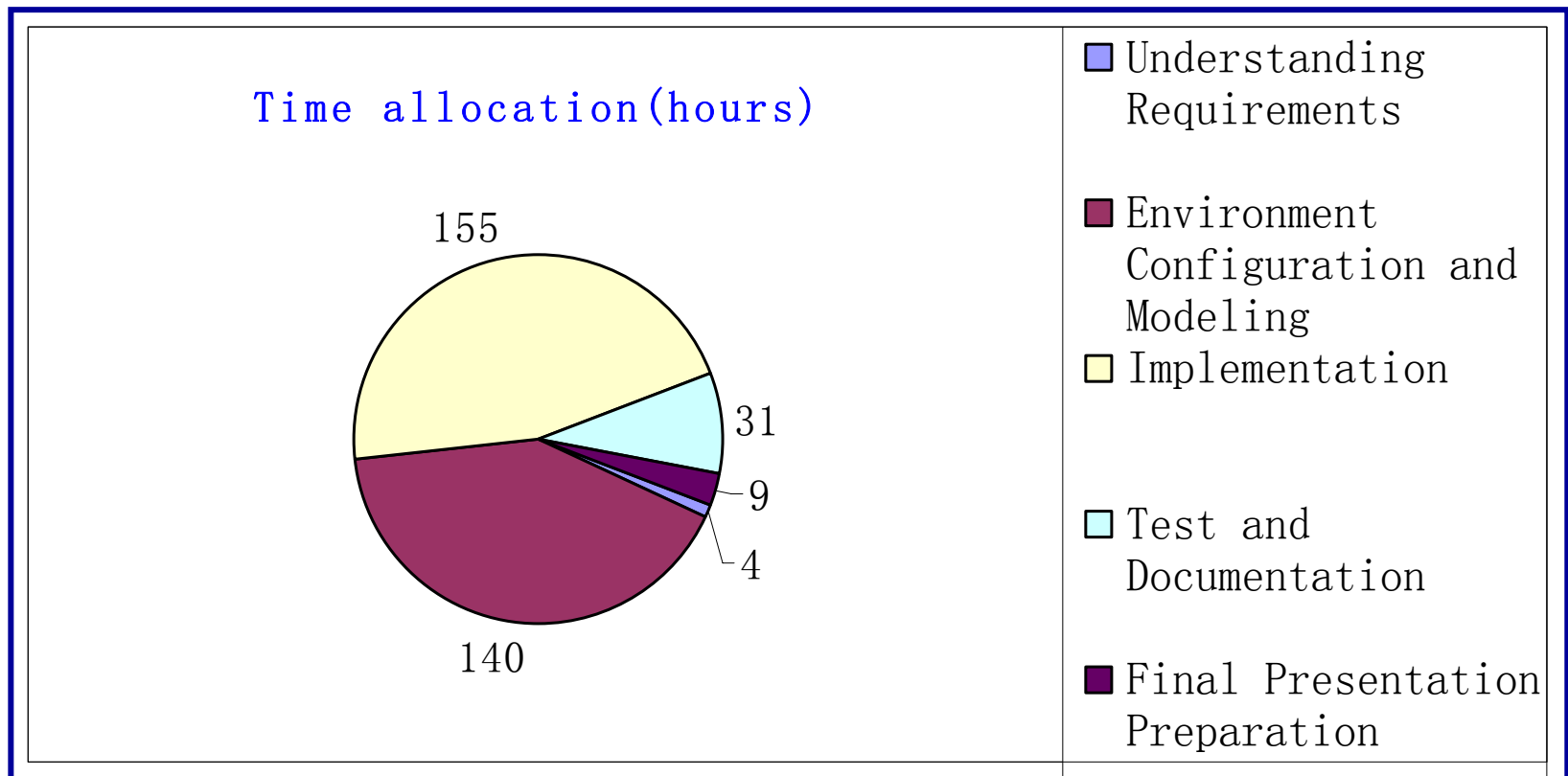


# Schedule

# Schedule:

Phase	Planned Time	Actual Time
Understanding Requirement	2nd Aug – 6th Aug (5 days)	7th Aug – 8th Aug (2 days)
Environment Configuration and Modeling	7th Aug – 27th Aug (21 days)	10th Aug– 13th Sep (35 days)
Implementation	28th Aug – 8th Oct (42 days)	14th Sep – 15th Oct (31 days)
Test and Documentation	9th Oct – 22th Oct (14 days)	16th Oct – 15th Nov (31 days)
Final Presentation Preparation	23rd Oct – 29th Oct (7 days)	7th Nov – 9th Nov (3 days)

# Time allocation:





# Acknowledgement

# People I should thank:

**Dr. Henry Gardner**

**Raju Karia**

**Ajith M. Jose**

**Le Ma**

**Hugh Fisher**

**Dr. Alistair Rendell**

**Echo2 development team**



***Thank you!***