



*Scrumptious:  
A Scrum Planning Tool Case Study  
to Evaluate the Rich Ajax Platform*

DVG C09

Spring 2009

Erik Olsson Haglund

Fredrik Häggbom



# Overview

- ❑ Introduction
- ❑ The prototype
- ❑ Comparison
- ❑ Conclusion



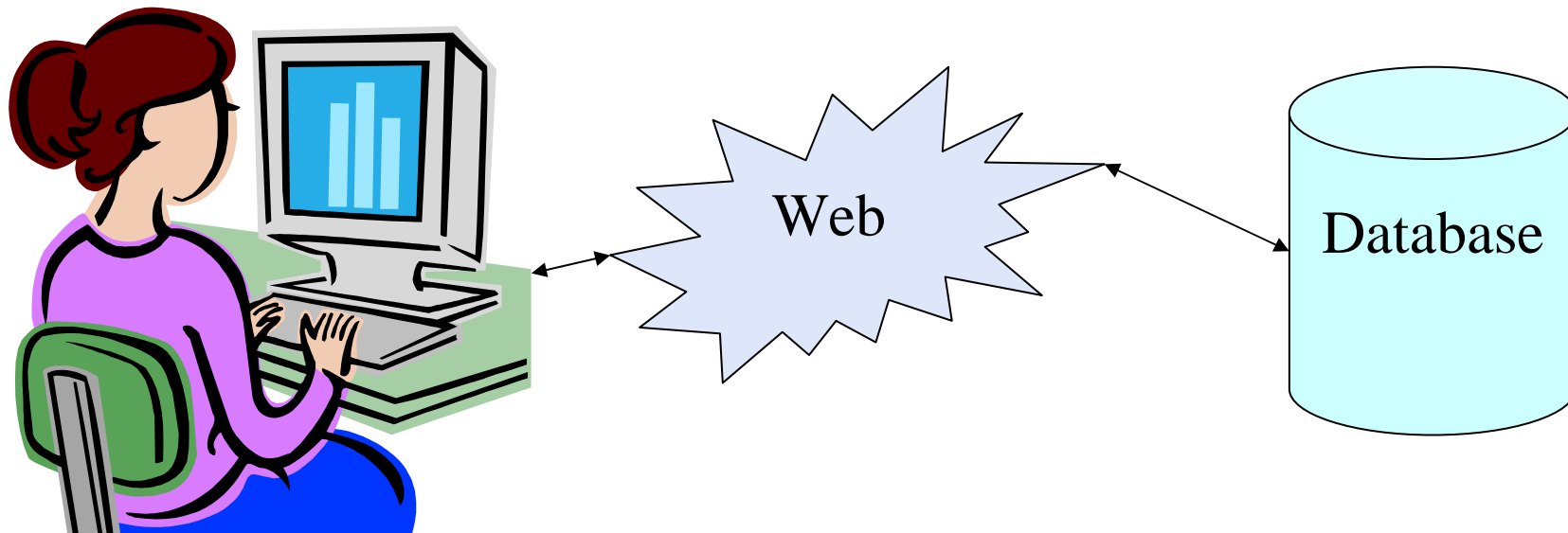
# Overview

- Introduction
- The prototype
- Comparison
- Conclusion



# *What is Rich Ajax Platform?*

- ❑ RAP - Rich Ajax Platform
- ❑ The Rich Client Platform of the web
- ❑ Using Java API and Eclipse IDE





# RAP - Example

The screenshot shows a web browser window with the URL `http://localhost:8000/Scrumptious`. The application has a menu bar with 'File' and 'Preferences'. Below the menu bar are two tabs: 'Scrum Board' (selected) and 'Burndown Chart'. The main content area is divided into two columns: 'Sprint backlog' and 'Your tasks'. The 'Sprint backlog' column contains a table with columns 'Story', 'Benefit', and 'Penalty'. The 'Your tasks' column contains a table with columns 'Story', 'Benefit', and 'Penalty'. A 'Task information' panel is located at the bottom right, showing details for the selected task 'Read bookings from database and show bookings to user', including 'Task points' (10) and buttons for 'Mark task as done' and 'Update time left'.

Story	Benefit	Penalty
Book a room	50	100
See available rooms at given time	40	70
Administrator window to handle bookings	30	25

Story	Benefit	Penalty
See available rooms at given time	40	70
Administrator window to handle bookings	30	25

Task information

Task name: Read bookings from database and show bookings to user

Task points: 10

Mark task as done

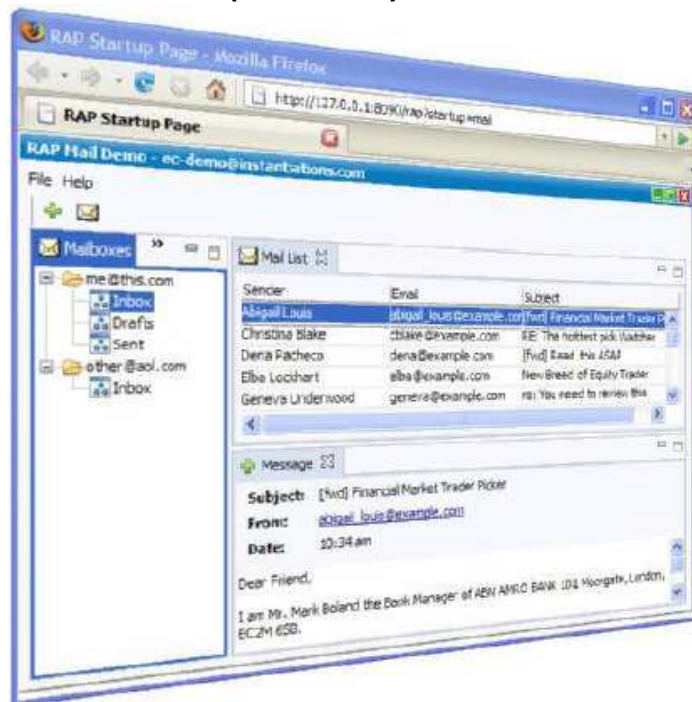
Update time left

- Perspective
- Menu bar
- View
- Widgets
- Tabs



# Evaluation

- How will we evaluate the RAP?
  - Develop a prototype using the RAP technology
  - A comparison with the similar technique Google Web Toolkit (GWT)





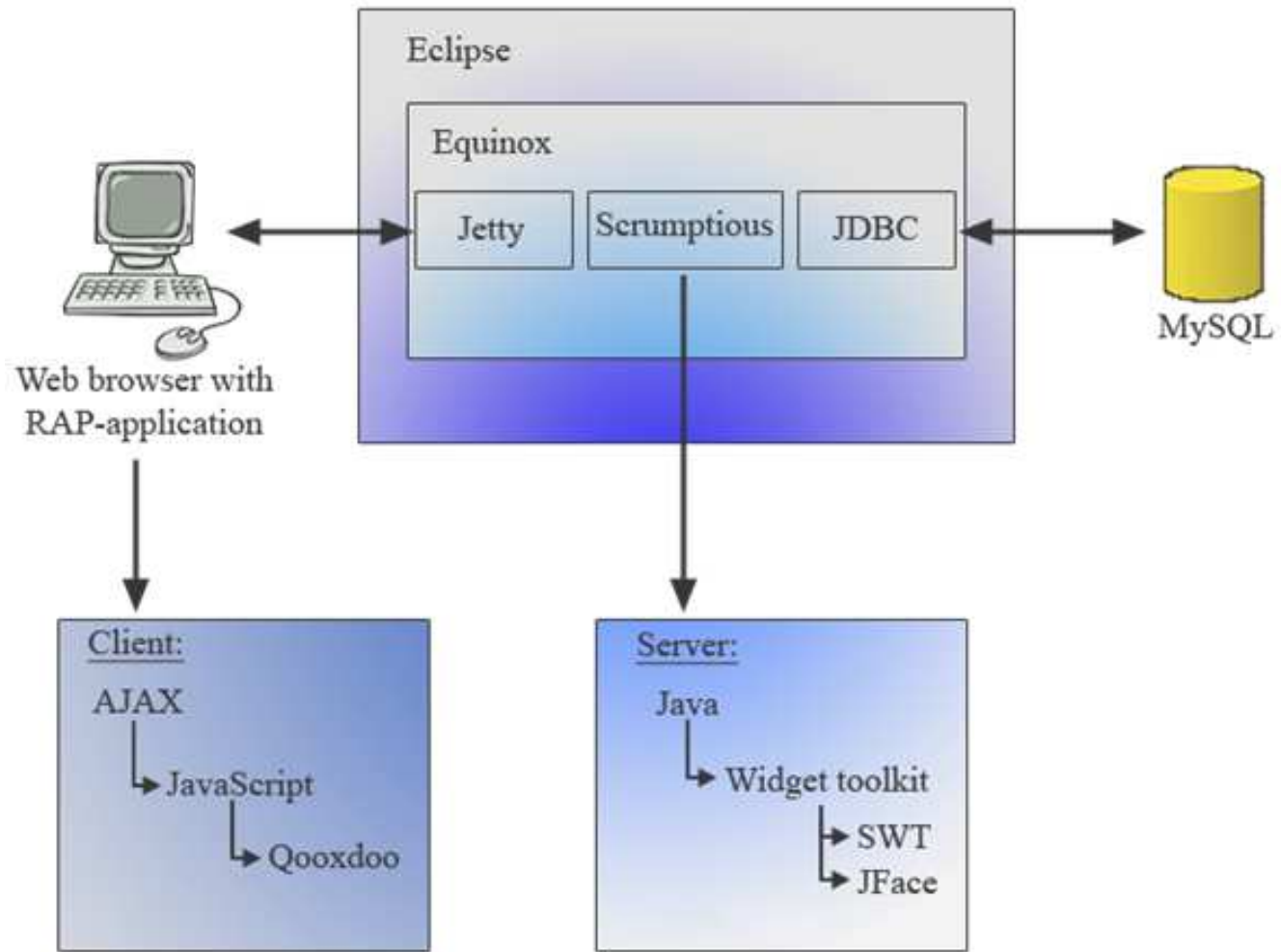
# Overview

- Introduction
- **The prototype**
- Comparison
- Conclusion



# *The prototype*

## □ Scrumptious – A Scrum Planning Tool







# *Prototype features*

- ❑ Supports all phases in the Scrum process
  - Manage projects and sprints
  - Handle stories and tasks
  - Virtual Scrum board
- ❑ Custom made widget (Drag and Drop)
  - Used at the virtual Scrum board
  - Implemented using both JavaScript (Qooxdoo) and Java



# Overview

- Introduction
- The prototype
- **Comparison**
- Conclusion



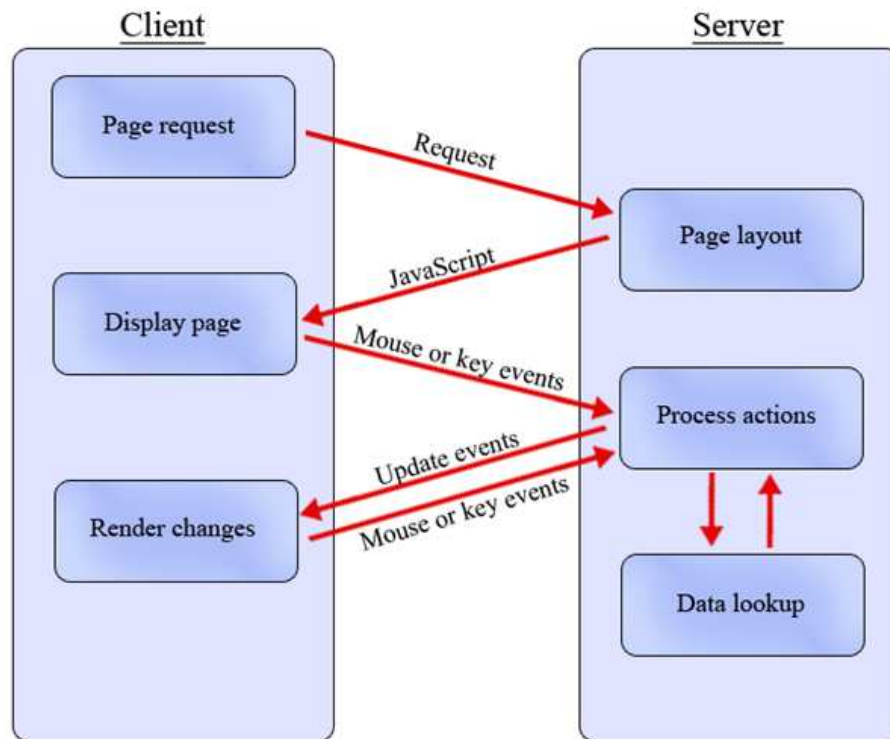
# *The comparison with GWT*

- ❑ Communication between client and server
  - Bandwidth usage
- ❑ Performance
  - Response time
- ❑ Single sourcing support
  - One source – many deployments

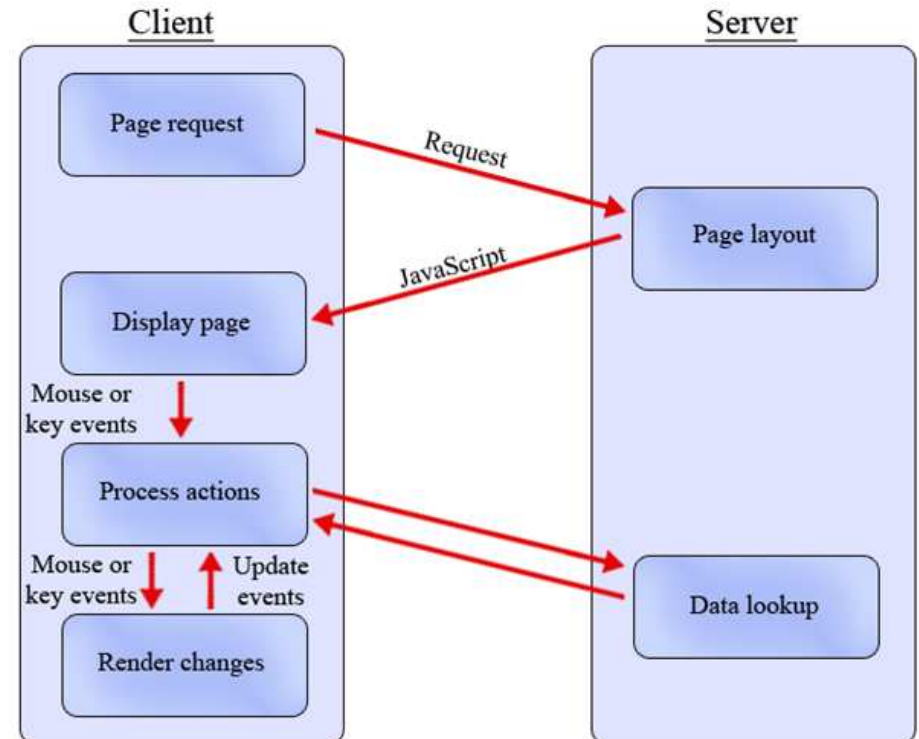


# Communication

## RAP



## GWT





# Performance

## □ RAP

- Delegates processing to the server
  - Increases delay time
  - Increases bandwidth usage

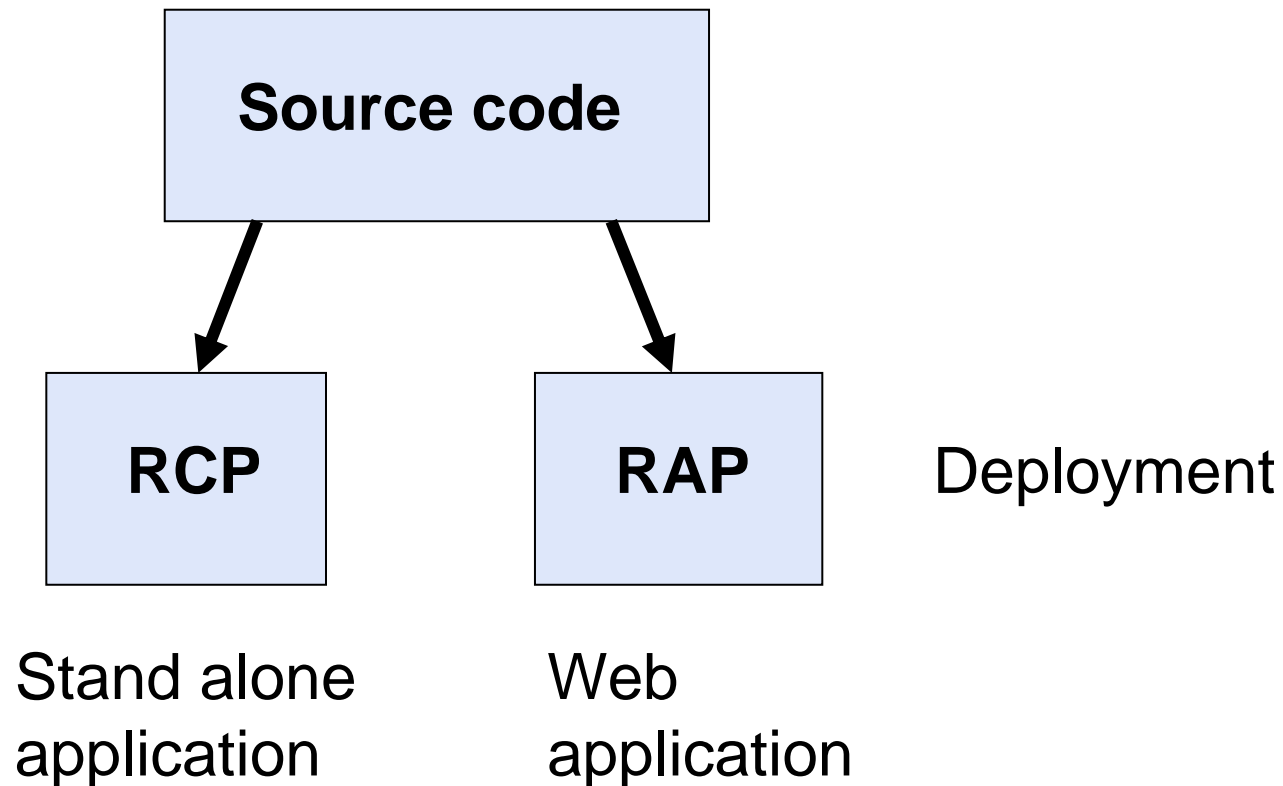
## □ GWT

- Delegates processing to the client or the server
  - Chosen by the developer
    - Increases complexity => more expensive to develop
  - Can decrease delay
  - Can decrease bandwidth usage
- Assumption – GWT will scale better than RAP



# Single sourcing

- The RAP's biggest feature
  - Use the same code for both RCP and RAP applications





# Overview

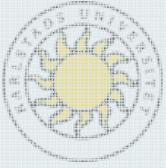
- ❑ Introduction
- ❑ The prototype
- ❑ Comparison
- ❑ Conclusion



# Conclusion

- RAP – A good competitor for the next generation of web applications.
  - Single sourcing
  - An easy way to develop a rich featured web application
  - Expandable with bundles
    - Can be used by other RAP applications
  - Uses the well known Java API
  
- Drawbacks
  - Missing some features (e.g. Drag and Drop)
  - Bugs





# *Rich Ajax Platform*

Thank you for listening!

Questions?