Mozilla Reconfigurable Toolbar

K. V. S. R. Sastry   02305033
P. P. C. Srinivas   04305809
S. Suman   04305022

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Outline
Problem Definition
Related Work
Proposed Idea
Design
Plan of Implementation
Conclusions and Future Work
References
Appendix

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Problem Definition

- Static Toolbar

- Limitations of Static Toolbars

- Reconfigurable Toolbar

    - A Toolbar which provides facilities for the user to customize in a convenient manner to use.

- Mozilla Reconfigurable Toolbar

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Related Work

News Aggregators

Tools which downloads the latest news that interests you, and displays them in a quick and easy to use webpage.
Sage, **ATOM** etc. are examples of News Aggregators.

Score Updates

Tool which gets live scores.
RSS Score Card is an example.

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RSS Score Card is an example.

Proposed Idea

To Provide a *Split Toolbar* which dynamically shows data from different sites in a scrolling fashion.

To Provide an option for dynamically:

- Adding new channels e.g., News Channel, Sports Channel etc
- Deleting already existing channels
- Adding new domains or sites
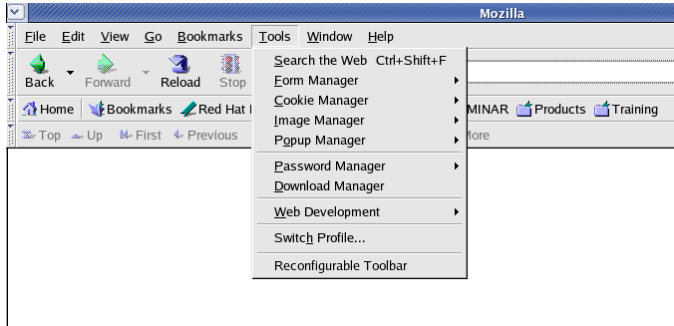- Deleting already existing domains or sites

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Constituents of a S/W design document

The S/W Design Document is a comprehensive software design model consisting of:

- Data Design
- Architecture Design
  - Data Flow Diagrams
  - Program Structure
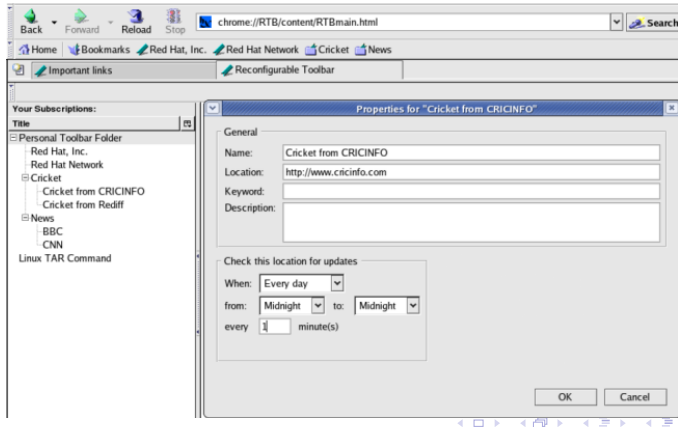- Interface Design
  - Human Interface Design

Human Interface Design

Human Interface Design

Human Interface Design

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Data Design

- The **data design** specifies how the data of the program is going to be stored including all major *data structures*.
- The **Schemas** of the 2 data structures used in the Project are as follows:
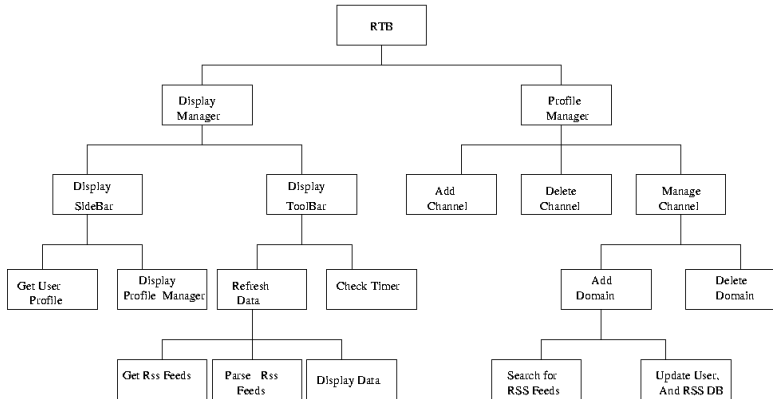 - RSS-DB data strcuture's schema

ID	NAME	KEYWORD	RSS_URL

  - User-Profile-DB data structure's schema

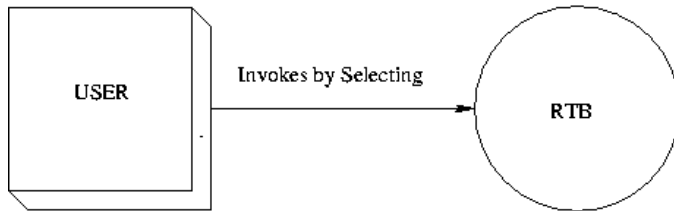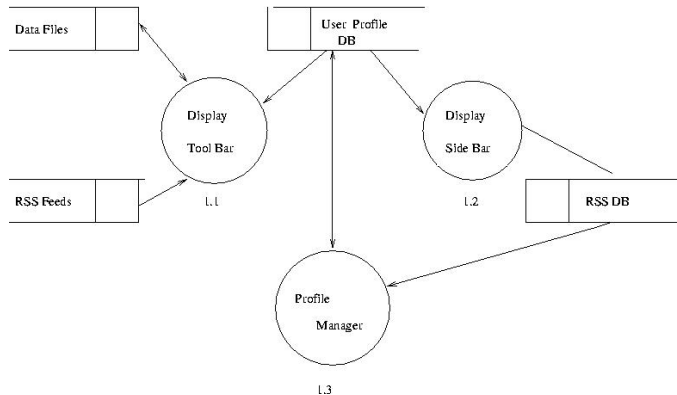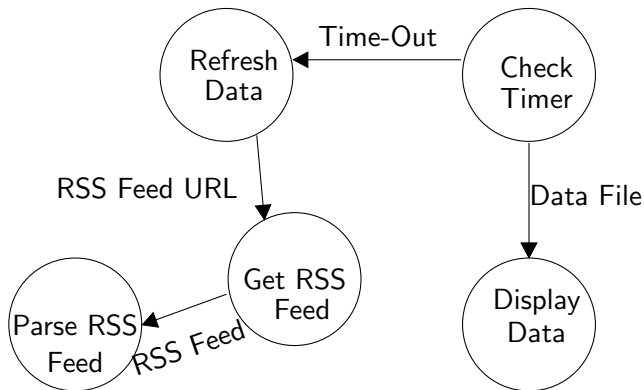 | ID | CHANNEL | VISIBLE |
    |----|---------|---------|

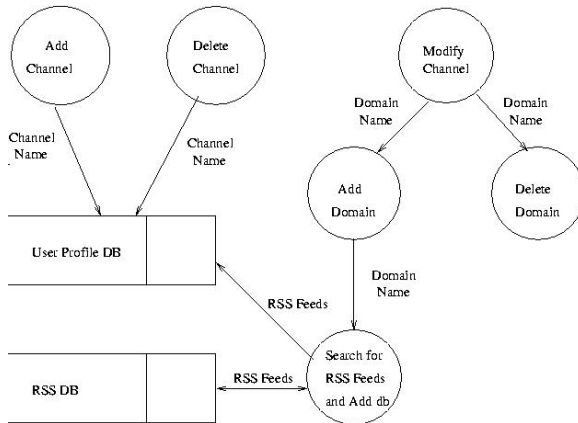Mozilla Reconfigurable Toolbar

Program Structure

DFD 0

DFD 1

DFD 2.1

DFD 2.3

Plan of Implementation

Scripting Languages to be used toward implementation:

1. Mozilla **X**ML **U**ser Interface **L**anguage (**XUL**)

2. Java Script

Justification

XUL was designed for creating the user interface of the Mozilla application. A feature in XUL called an *overlay* allows a third party to create extensions to the browser itself, for example to add a *custom toolbar*, change menus, or add other features.

Plan of Implementation

Concepts to be known toward implementation:

Really Simple Syndication - RSS

RSS is a mechanism used to distribute news content without depending on the browser or email client.

Types of sites that are typically RSS-Enabled

- News services
- Databases
- Many web logs (commonly called "blogs")

Plan of Implementation

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Conclusions and Future Work

Conclusions

- Static Toolbars have some limitations
- Reconfigurable Toolbars overcomes the limitations of Static Toolbars and provides the user with the facility of customizing the Toolbars
- We developed the *Design* of a Reconfigurable Toolbar for Mozilla

Future Work

- Have to make the Mozilla Reconfigurable Toolbar a reality by coding it according to the design developed
- Have to make the system robust by finding the flaws if any after implementation and by correcting them
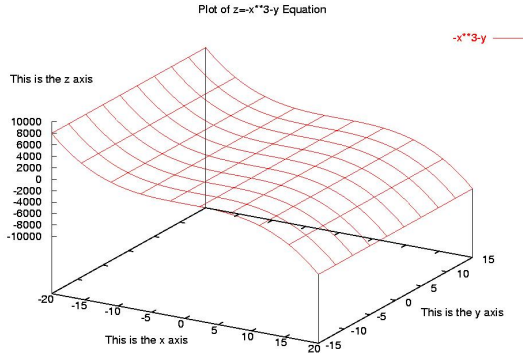
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- **XUL** Tutorial at http://www.xulplanet.com/
- All the information about **RSS, RSS Feeds, RSS Validators** etc. at http://www.rssfeeds.com/
- Example **Software Design Document** at http://www.csc.calpoly.edu/~abenamou/csc405/dd.html
- Active Projects on Mozilla at http://www.mozdev.org/projects/active.html

Gnu Plot

Table with 6 Colours

COURSE	INSTITUTION	PERCENTAGE
S. S. C	Vignan Little Public School	86.33
Intermediate	J. K. C. College	89.8
B. Tech	R. V. R & J. C. College Of Engg.	85.63
GATE-2002	—	99.50
M. Tech	I. I. T. Bombay	8.60