SaaAS - The Mobile Agent based Service for Cloud Computing in Internet Environment

Aim:

The aim of this project is to use mobile agent to implement the software and data service for cloud user in Internet environment, and make the cloud computing system adaptable to work in Internet environment.

Existing System:

Existing cloud computing system uses Remote Procedure Call (RPC) or Remote Method Invocation (RMI) as the underlying facility, to implement service migration. RPC and RMI can achieve good performance in LAN, but is not suitable for Internet or WAN.

Proposed System:

In the proposed system, Mobile Agents are used for service migration. By using the mobile agent rather than RPC/RMI as the underlying facility to implement the service migration, SaaAS is more suitable to work in Internet.

Modules of the System:

There are mainly 4 modules in the system. They are,

1) **Admin:** This module is to maintain the data in Clouds and to provide them to users.
2) **User:** In this module a user can utilize the services.
3) **Domain Code Server:** This module is to check the data locks and provide the data to user.
4) **Main Code Server:** This module maintains the locks of data stored in clouds

Software Requirements:

- ➢ Operating System   :   Windows XP
- ➢ Web Server   :   Tomcat
- ➢ Technologies   :   Swings, Servlets, JSP, HTML, JavaScript
- ➢ Database   :   MySQL

Hardware Requirements:

- ➢ Pentium 4 processor
- ➢ 1 GB RAM
- ➢ 80 GB Hard Disk Space