

2006 IPA Project

Personal Agent for Non-verbal Online Communication

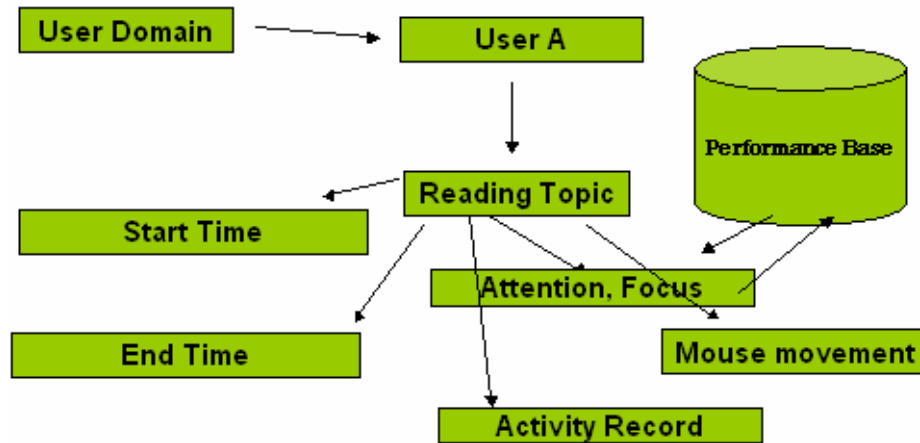
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■ Our proposal

- Agent-based online communication system
- To communicate with the group of persons sharing similar interests or experience though Personal Agents

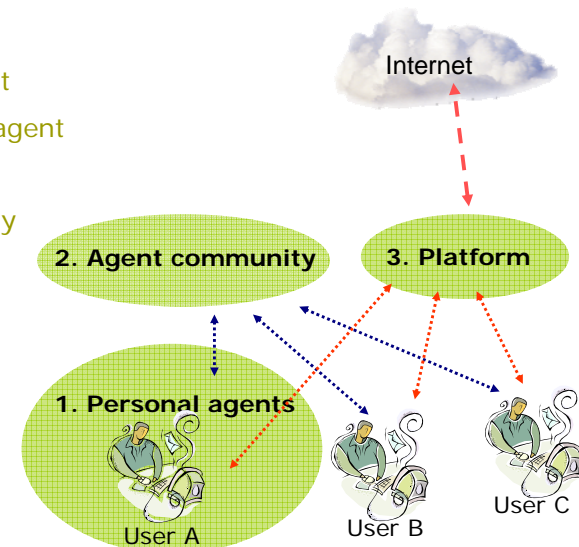
■ Applications

- Online education for young people
- Social network for business cooperation. Etc.



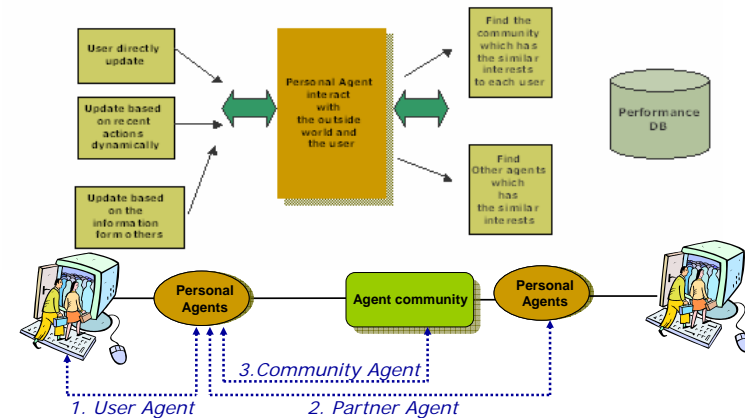
Structure of System

1. Personal agents
 - Partner agent
 - Community agent
 - User agent
2. Agent community
3. Platform



Personal Agents

- Each agent is a robot secretary for the user.
- When the user is accessing WebPages, his agent is studying the behavior of the user and updating the database.
- Agent can exchange the information with the virtual community and other agents



- Communications between user and his personal agent (*User Agent*)
- Communications between one agent and others (*Partner Agent*)
- Communications between agent and virtual communities (*Community Agent*)

Analyses of User actions

| Trace/ Movement.Speed | Low | Normal | High |
|--------------------------------------|---|--|----------------------------------|
| Random | Idle, Less active | Less active | Look around |
| Following WebPages | Reading slowly | Reading with normal effort and normal confidence | reading fast with confidence |
| Iteratively Following WebPages | Reading slowly with difficulty/low confidence | Reading with difficulty/high effort/ low confidence | Focusing much and with effort |

