

(第3号様式)(Form No. 3)

学位論文要旨
Dissertation Summary

氏名 (Name) MAVLONOV KAMOLIDDIN

論文名: Study on a Holistic Data Storage Approach in Mobile and Web Services
(Dissertation Title)

The increase in the mobile services in the current trends has also raised the expectations for the end-users. There is a big challenge for catering to millions of users, handling concurrent users, support for multimedia content, ability to work in all kinds of network connectivity, supporting offline capabilities and much more.

These challenges have a direct impact on business agility. There arise a question of handling these problems using efficient technologies and infrastructure to run a business efficiently.

These challenges have given us the motivation for doing a study on solving problems involving scalability, catering for multimedia content and furnish offline capabilities in modern applications.

Sushi, which is the image storage system caters for storing and retrieving images in a simple, reliable and performance effective way. Our column-based storage system with the implementation of local file system provides a flexible, scalable and highly available, performance tolerant solution for the database. Our data synchronization approach provides a way for efficient network bandwidth usage and mobile-offline capabilities.