Project Report

## Mobile Computing - 2014/15

Course: MEIC / MERC *(select the right option)*

Campus: Alameda / Tagus *(select the right option)*

Group: \_\_\_\_\_\_

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Number: \_\_\_\_\_\_ E-mail: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Number: \_\_\_\_\_\_ E-mail: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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*(PAGE LIMIT: 5 pages – excluding the cover)*

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## 1. Achievements

*Describe which features of the project specification were implemented. Fill out the following table. For each feature, indicate its implementation state. If partially implemented, describe what was achieved. Feel free to complete the table with any other specific features that you have implemented.*

|  |  |  |
| --- | --- | --- |
| **Version** | **Feature** | **Fully / Partially / Not implemented?** |
| S-Version | Maintain locally owned workspaces |  |
| Manage workspace files |  |
| Enforce quota restrictions |  |
| Invite local user for owned workspace (mirroring) |  |
| N-Version | Set up WiFi Direct networks |  |
| Workspace sharing by invitation |  |
| Workspace sharing by subscription |  |
| Shared operations for file and workspace management |  |
| A-Version | A1. Server-backed storage |  |
|  | A2. Offline operation |  |
|  | A3. Security |  |
|  | Other |  |

## 2. Specification

*Draw the activity wireframe of your program. Explain it. Describe any specific features of the program behavior that have not been explicitly stated by the faculty.*

## 2. Design

*Describe the design of your program. This includes: 1) target platform (Termite or real devices), 2) program architecture (e.g., internal modules, Android components, threads, etc.), and 3) relevant protocols (e.g., for group formation and disaggregation, handling failures, serving distributed file and workspace requests, keeping consistency, etc.). Explain how you handled issues that are relevant in the mobile computing setting, such resource efficiency, performance, fault tolerance, and usability. Discuss how the involved trade-offs affected your design decisions (e.g., handling sockets, etc.).*

## 3. Implementation

*Describe any relevant implementation choices, e.g., external libraries used, etc.*

*Make a report on the currently know limitations (e.g., bugs, restrictions in the test environment, etc.)*

## 4. Conclusions

*State the conclusions of this work.*

*Please provide some input on how the practical component of the course could be improved in future editions.*