Project Report

## Ubiquitous and Mobile Computing - 2016/17

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

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

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

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

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

## 

## 1. Achievements

*Describe which features stated in the project specification were implemented. Fill out the following table. For each feature, indicate its implementation state. If partially implemented, describe what was achieved.*

|  |  |  |
| --- | --- | --- |
| **Version** | **Feature** | **Fully / Partially / Not implemented?** |
| Baseline | Sign up |  |
| Log in / out |  |
| List / create / remove locations |  |
| Post messages |  |
| Unpost messages |  |
| Read message |  |
| Edit user profile |  |
| Support for different policies |  |
| Centralized message delivery |  |
| Decentralized (direct) message delivery |  |
| Advanced | Security |  |
| Relay routing |  |

## 2. Mobile Interface Design

*Draw the activity wireframe of your program. Explain it succinctly. Describe any specific features of the program behavior that have not been explicitly stated in the project specification. The wireframe diagram can be added to the report in a separate appendix not counting for the 5-page limit.*

## 3. Baseline Architecture

*Describe the baseline architecture as requested in the following subsections.*

**3.1 Data Structures Maintained by Server and Client**

**3.2 Description of Client-Server Protocols**

**3.3 Description of P2P Protocol for Decentralized Message Delivery**

**3.4 Other Relevant Design Features**

*Describe any other relevant design features specific to your project. If there’s nothing to say, feel free to remove this subsection.*

## 4. Advanced Features

**4.1 Security**

*Describe the protocols that were designed to achieve the security goals of your project.*

**4.2 Relay Routing**

*Describe the protocols for relay routing.*

## 5. Implementation

*Describe any relevant implementation choices, in particular:*

* *Programming language and platform used to implement the server*
* *Additional external libraries used in the project*
* *Android components (e.g., services, activities); how they communicate with each other; how they share global state*
* *Threads that exist in the mobile application and their function*
* *How sockets and communications are handled*
* *Persistent state maintained on the mobile device*
* *Other issues you may find relevant, e.g., optimizations*

## 6. Limitations

*List the currently know limitations of your project (e.g., bugs, restrictions in the test environment, etc.)*

## 7. 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.*