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**Media and Communication Informatics**

**Cloud Computing WS 2017**

**Prof. Dr. Marcus Schöller**



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# Requirements

These requirements were defined in the exercise. We split them into functional and non-functional, and also defined a couple of our own marked in blue.

## Functional

1. A new user has to register with the website first by providing a chat name.
2. A marked message is generated and sent to the chat room each time a new user

connects to the chat room or leaves the chat room.

1. A user can request a list of all online users using the “\list” command; that list is

only sent to the requestor.

1. A user can send a message to one dedicated recipient (private message) instead of

to all online users in the chat room.

1. A user can send multi-media files to the participants of a chat room or via a private

message, e.g., pictures, movies, sound files.

1. A user can press on a button to get information about the available commands.

## Non-Functional

1. In the chat room, all messages should be displayed in chronological order with a

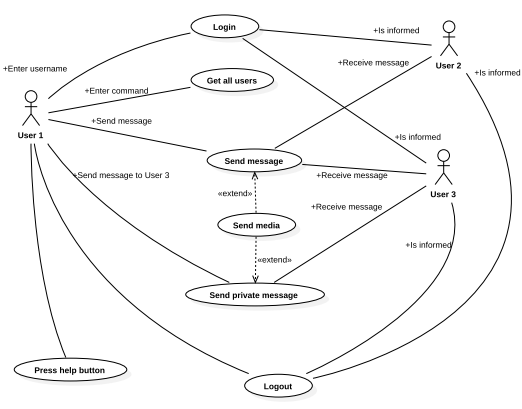
timestamp and the chat name of the user who has posted the message.

1. It should be a single page web application, to avoid reloading the page.

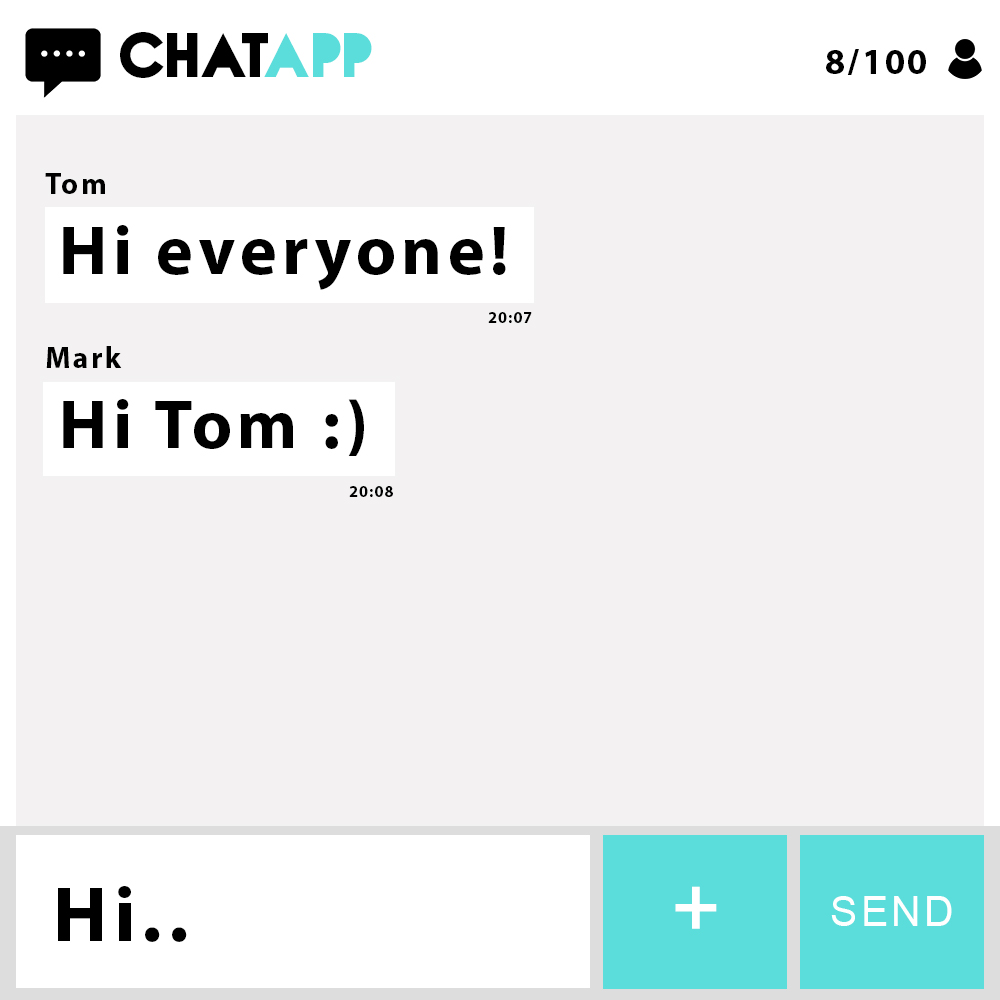
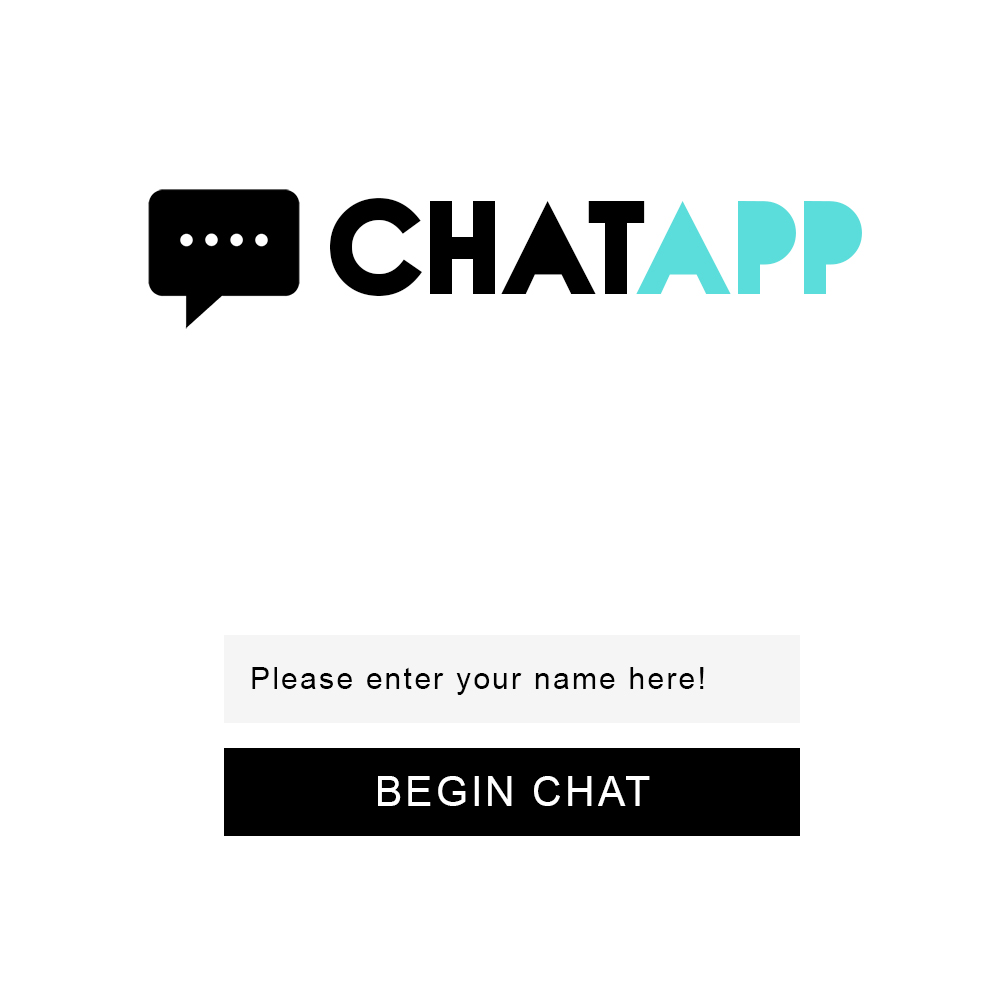
# Design

We started our design of the application by creating a use case diagram and some mockups based on the requirements. After that we proceeded with the creation of a simple component diagram. Finally, to minimize merge conflicts and get a good workflow, we created a class diagram and splitted the source code into multiple files.

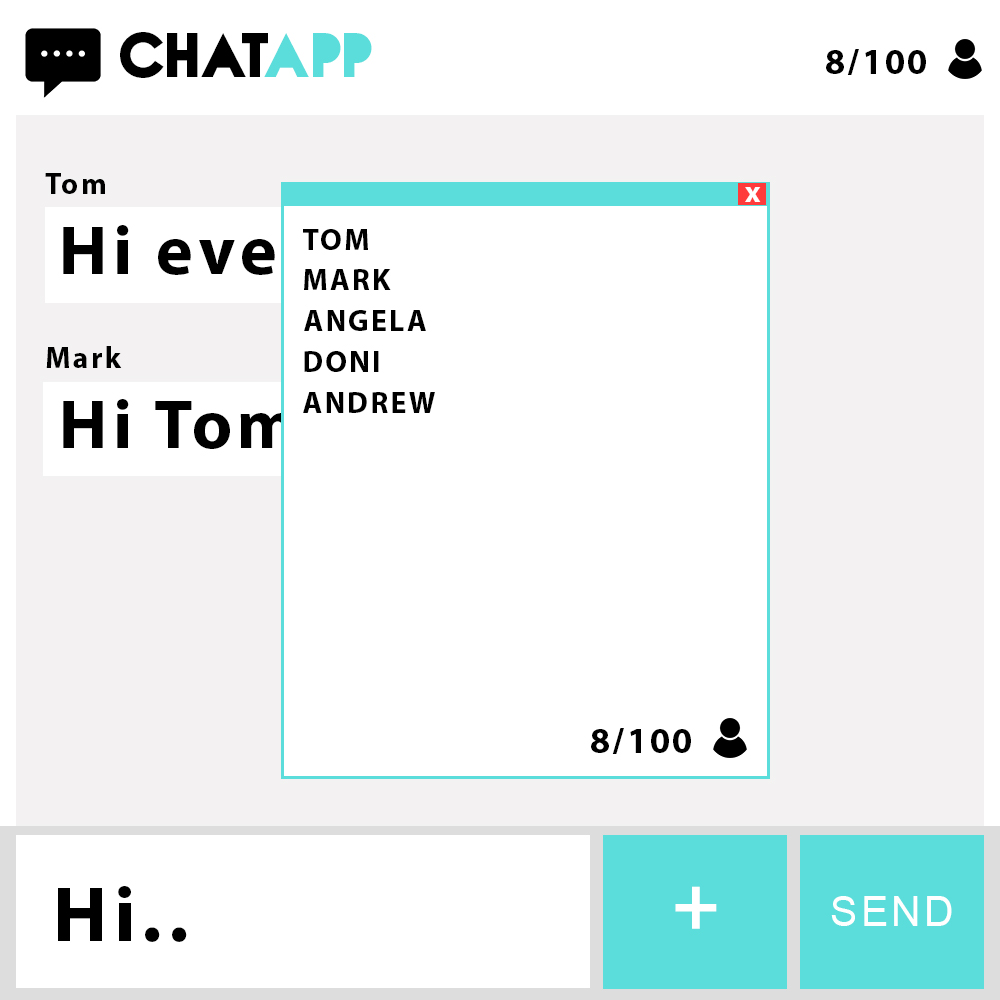
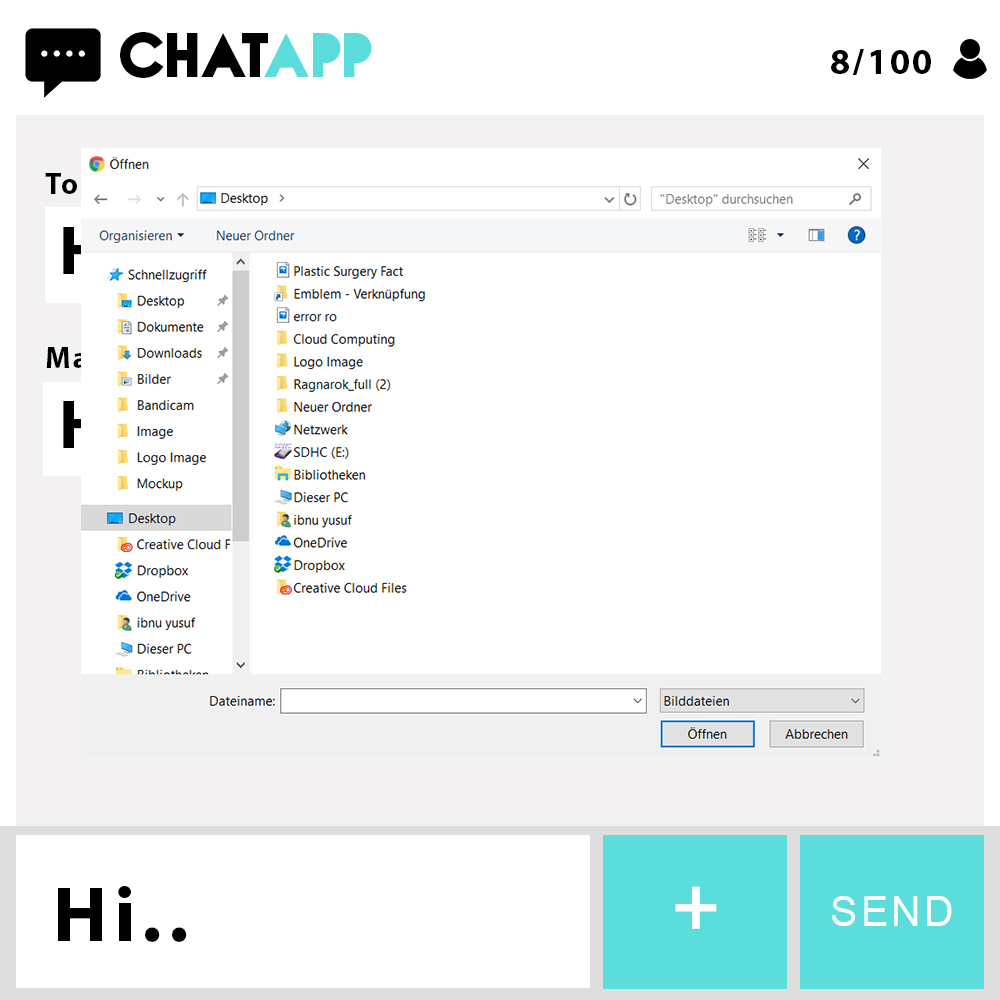
## Use Case Diagram



## Mockups

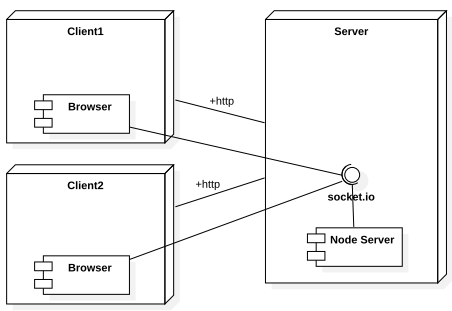


The login screen The chat

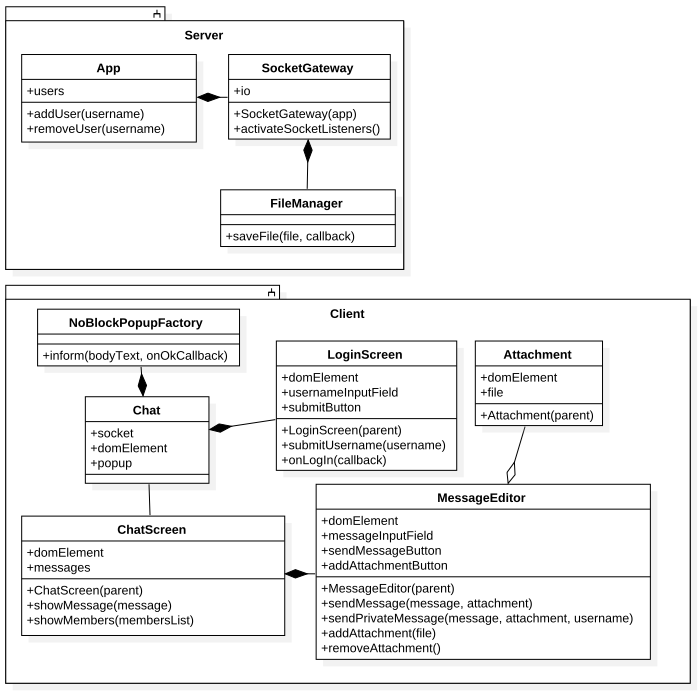


Uploading media A list of the users

## Component Diagram



## Class Diagram



# Results

After managing to fullfil all the requirements, in this chapter we present some instructions to get started and the product itself in pictures.