Bachelor MKI

„Mobile Computing“,

WS 2018/2019

Prof. Dr. Natividad Martínez Madrid

- Seminar report -

Spill – Split the Bill

Sonja Czernotzky

[Sonja.czernotzky@student.reutlingen-university.de](mailto:Sonja.czernotzky@student.reutlingen-university.de)

Hanna Schulze

[Hanna\_Frederike.Schulze@student.reutlingen-university.de](mailto:Hanna_Frederike.Schulze@student.reutlingen-university.de)

Jannik Renner

[Jannik.Renner@student.reutlingen-university.de](mailto:Jannik.Renner@student.reutlingen-university.de)

Oliver Wagner

[Oliver.Wagner@student.reutlingen-university.de](mailto:Oliver.Wagner@student.reutlingen-university.de)

Tim Herold

[Tim.Herold@student.reutlingen-university.de](mailto:Tim.Herold@student.reutlingen-university.de)

Arjun Grewal

[arjun.grewal@student.reutlingen-university.de](mailto:arjun.grewal@student.reutlingen-university.de)

Kenneth Alegria

[Kenneth.Alegria@student.reutlingen-university.de](mailto:Kenneth.Alegria@student.reutlingen-university.de)

**Abstract:** SPILL (SPlit the bILL) is an app for people who love to travel in groups and may have had difficulties in splitting bills along their journey. Spill will help those people and nobody has to calculate who owes somebody money and how much. In this Report, we’ll show you our goals for the app and the requirements to it. We will include mockups and decisions about our design and how it finally got there. In addition, there are activity and sequence diagrams for understanding how the app works.

**Table of contents**

[1 Idea 2](#_Toc530991938)

[2 Motivation 2](#_Toc530991939)

[3 List of Acronyms 2](#_Toc530991940)

[4 Literature 2](#_Toc530991941)

[5 Declaration on oath 3](#_Toc530991942)

# Idea

Our idea is to make it easier for groups to split their Bills when they go traveling or do some activities together. Every Person has to login to the App with a Google-Account. With our App you can create trips for groups. Multiple activities within trips can be created. The App records total costs for whole trips as well as separate costs for each activity for each person. People can be assigned to separate activities individually, so the activities cost will not automatically splitted to everyone in the group rather only by the people who are assigned to the activities. Also, can People take the charge from others (for example there is a couple with in the group and one of them is paying for both). The person who created a trip for a group is the administrator. He’s the only one who can invite or delete people to/from the group. Every user can add his or her individual positions to an activity/trip. Motivation

# Motivation

All of us made the experience to create an Excel sheet or a list after a trip with a group of friends to get an overview of the costs that came up and who has to pay what which person, so everyone payed at the end “the same”. Mostly to create that list you need to look through the bills collected while being on the trip and at the end you don’t even have every bill and have to run after others to get all those bills together. The app will take care of balancing for everybody.

# List of Acronyms

# Literature

# Declaration on oath

I hereby declare that I have written the present work on my own, that I have not used any external help other that declared and that all helping material and sources used for the work have been properly named and referenced.

I am aware that an untruthful declaration will be considered as a deceit.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Place, Date Signature

(First and last name)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Place, Date Signature

(First and last name)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Place, Date Signature

(First and last name)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Place, Date Signature

(First and last name)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Place, Date Signature

(First and last name)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Place, Date Signature

(First and last name)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Place, Date Signature

(First and last name)