# Proposal for a Bachelor Thesis: An Requirements Analysis and implementation of an Elctro Bike Rental System

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# 1 Planning of the Proposal

- Read the 4 Proposals and get an Idea of what is required in the Proposals

- write down as much as possible

- ist es sinnvoll zuererst zu lesen, was RE ist, oder zuerst die apps anschauen?

- look at the current implementation of the app and other bike-rental systems

- look in the App-Store and read ratings to get an idea, what is wrong or good

- Get an Idea of Requirements engeineering and what problems could arise

# 2 Gedanken

- Wie eng ist die Zusammenarbeit mit BA-Betreuer?

- the Introduction contains some kind of problem description

- Things that bother users

    - Broken bikes
    - no near stations
    - bad support
    - cumbersome use of the app

- app provides several services

    1. station and bike information
    2. Bike rental
    3. support
    4. contract information

# 3 Einleitung

- Relevance of biketraffic for environment and quality of life in cities

- health benefits

- justification for a electric bike rental System

- geographical Situation

- can't motivate people to use conventional bikes

- limitations of electric bikes (recharging of batteries)

- stations have to contain bikes/have space for bike

- there have to be enough stations

- users want to have information on:

    - Position of stations
    - Number of bikes
    - Charging status of the bikes

- Users want to have these information:

    - On the fly
    - spontaneusly

- for this purpose a mobile app is ideal

- A modern company is expected to have a modern app

- in order for the app to be future-proof it is necessary to analyse possible Requirements

- **The goal of this work is to analyse the requirements that are placed on such a mobile app.**

- Registration is bad

Make the registration simpler

# 4  Problembeschreibung

# 5  Existierende Systeme oder Bekannte Losungsansatze

# 6  Eigener Ansatz

# 7  Zeitplan

Time schedule for 16 Weeks

- **2 Weeks** Literaturrecherche

- **10 Weeks** Requirements engineering and Implementation

- **1 Week** Final Writing and corrections.

- **2 Weeks** Holidays and Vacation to recharge after 14 Weeks of hard labor and sacrifices

# References

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[5] P. Tiedemann. *Menschenwürde als Rechtsbegriff: eine philosophische Klärung*. Menschenrechtszentrum der Universität Potsdam. BWV, Berliner Wiss.-Verlag, 2012.

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