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**Master’s Degree in Computer Science**

**Academic year 2023/2024**

**RoomFinder**

A report for the Mobile Programming and

Multimedia Project

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# **1 The project**

This project has been developed for the Mobile Programming and Multimedia course and it consists in the development of a mobile application using a cross-platform development approach to optimize the writing code process for both Android and iOS platforms.

This section presents the idea of the mobile app, considering the contribute it can bring through people, and the kind of users who can retain the developed app a useful and effective tool for their daily life.

## **1.1 Mobile app**

Students who want to move to another city for study reasons should have the possibility to examine in a simple way all the rental proposals of the city without making a lot of calls or passing through a lot of rental agencies. This represents something that is missing in the largest Italian cities and that is the reason behind the idea of the chosen application.

The original idea of **RoomFinder** was to develop an app that allows the Italian student community, composed by both national and international students, to easily review all the rental proposals of the various accommodations scattered around the city of studies. The user can examine the various proposals by comparing prices, location and using all the other metrics offered by the app and useful for a particular facility of interest. A further important aspect is the possibility of being able to consult the possible roommates already present through a short description which will inform the user, who is carrying out the search, about the kind of persons he will meet choosing that facility. It will also be possible to engage in a chat with the host of the possible facility with the aim of exchanging useful information for both parties.

## **1.2 Users segment**

The application represents a useful tool for multiple kinds of users. In fact, RoomFinder is not only a tool available for students who are looking for an accommodation but even for private hosts who want to make available their space.

In RoomFinder there are three types of users:

1. **Nonregistered users**: a visitor that is not subscribed to RoomFinder. This kind of user can view all the rental proposals present in the system but to access to further features the subscription is necessary.
2. **Registered users**: registered students who are looking for an available and affordable facility. This kind of user can view all the rental proposals present in the system and he can access to further features that can power up his/her user experience. Some of these features are the possibility to save ads, chat with a host to request more information and view the roommates’ details.
3. **Hosts**: registered owners of facilities present in the system. This kind of user can add new ads in the system and/or manages ads already added. Hosts can also respond to requests of information from students via a chat system.

# **2 Mobile Design**

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## **2.1 Mockups**

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### **2.1.1 Nonregistered user**

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### **2.1.2 Registered user**

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### **2.1.3 Registered host**

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