

**The Arab American University**

**Faculty of Engineering and Information Technology**

**Computer Systems Engineering Department**

**Senior Project Proposal**

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Overview:

During our study journey in engineering, the most important thing we learnt is to find a solution for any problem we face. We asked our mates in the university about any problems they face during their living in the accommodations. Most of them agreed they had to buy lots of stuffs they cannot afford. On the other hand, most of people have so many stuffs they don’t use or need anymore.

Problem:

Most of people have so many stuffs they rarely use, at the same time they don’t to throw it away. On the other side, many other people need to use such stuffs for a short time but they don’t want to buy them.

Sometimes, we need to buy different expensive things although we don’t use them a lot. At the same time, other people have these stuffs but they don’t use.

Travelers and students in accommodations often need to buy some stuffs to use only once, unluckily, they cannot take it back home with them.

Solution:

In our senior project, we are building an application which allows users to rent any stuff they need for a while. This application will solve the problems we mentioned before by connecting two user interfaces, the one who wants to rent and the renter. For example, students in accommodations need iron to do their clothes, but it’s not necessary for them to buy, so they can rent it by our application. Readers don’t have to buy books anymore, they can rent it for a specific time from other readers. Our application will include several categories such as clothes and accessories, electrical machines, books, kitchen tools, furniture, and event accessories. In these categories, we will add algorithms to define the most required stuff from each category. Also, we will add an evaluation feature to let the users give feedback about the stuffs. The application is designed as a rent system only, selling is not a choice. We will use different sorting algorithms to sort our categories from least to most price and evaluation.

Time, place and price are added as features in the form of rent. In our application time and price are given a limit, if the user expanded time, price is expanded, too. According to payment, the user has two choices, cash on delivery or in advance by a specific payment system.