



**TED UNIVERSITY**

CMPE 491  
Senior Project  
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## Project Specification Report

### RESERVE IT

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# 1.Introduction

The old meeting reservation software cannot meet the demands of the modern business. The purpose of this project is to create a contemporary product that enhances the meeting reservation ways.

While finding out a new solution to the problems of finding an appointment at a suitable time in the comfort of our home, protection of private user information from malicious users is also vital for professionalism and ethicality of the software.

## 1.1 Description

### 1.1.1 Outline of the Project:

Project mainly stands on making the reservations process seamless and painless to users. Users could discover the nearby providers, their available times, price ranges and the services they offer. Users can make reservations by pre-paying some amount using e-payment systems. Also, users can comment and evaluate their past deals. We are planning to develop this project for hairdressers, the football pitch industry and individuals which will be beneficial both service sellers and buyers.

## 1.2 Constraints

- 1.2.1: Project constraints for the economic section is development of a safe payment system by using a 3D secure payment, encapsulation of credit card data, which is related to ethical constraints.
- 1.2.2: Socially and ethically, all personal information of users will be kept secret and will not be published. Reservation details of users and business partners will not be shared with third party organizations to maintain our application's safety constraints.
- 1.2.3: Location information of users will only be used for necessary operations inside of our application.
- 1.2.4: With the effect of the pandemic most of the hairdressers work with a reservation. They did that with a notebook and phone calls. They store the reservation hours and customer info in a notebook. This situation leads to conflicts and time loss. Also, customers must call hairdressers in every unexpected situation.
- 1.2.5: Reserve It supports the sector in terms of trade of ethics by monitoring all available sellers around the consumers, our software establishes a competitive environment and prevents exorbitant pricing. In addition, it is important for transparency and price consistency that pricing scales and payment channels are carried out from a stand-alone application.
- 1.2.6: Every time they want to play football on pitch, they need to research nearby pitches first, then they look for availability of these pitches if they are not available and don't fit with the customer's schedule, this cycle must return to the beginning and people look for new pitches. Also, all these stages are made by phone call without any visual process. Every time in this cycle people need to contact another person to make

arrangements. Our system is going to exist to prevent this time loss and dealing with the human relationship as a social constraint.

- 1.2.7: One of the main purposes of the app is serving pitches. People will be able to see pitches around and make reservations, with this feature the app pushes people to do exercise and sport activities. It brings another reason for people to go out and move. Therefore, the application helps people to stay in shape, stay away from a sedentary lifestyle, reduce obesity, and keeps people healthy.
- 1.2.8: The ecosystem which will be developed by us is going to create great communication between buyer and seller with the help of push notifications. It is going to decrease one-to-one communication. In this way, social stress, talking to another person and asking for something, is going to be reduced.
- 1.2.9: Lastly, the individual reservation system will act like an agenda for people who need time management such as businessmen or teachers. The system will provide them to give appointments to the students or other partners for a real job meeting.

## 1.3 Professional and Ethical Issues

- 1.3.1: This application Contributes to society and to human well-being by providing them a better way to make connections, reservations, and meetings. This app saves time for every stakeholder of the application.
- 1.3.2: In this application the main concern is avoiding harm between suppliers and consumers. The application will provide comments and start to evaluate every stakeholder that interacted with each other. For instance, a hairdresser will be able to evaluate the customer's attitude by voting and commenting on their profile vice versa.
- 1.3.3: Application will be transparent for all stakeholder for honesty and trustworthy purposes. Everybody that interacts with the application will learn what the application offers before signing in. The purpose and the features of the application will be stated as clearly as possible.
- 1.3.4: All stakeholders will have the same evaluation for this application according to the values of equality, tolerance, respect for others, and justice that govern this principle.
- 1.3.5: Privacy policy is a big concern in the software world. Therefore, the application will make sure that every private user information is kept secret. For instance, having Their personal data such as phone number and location will not be shared across the application and other users will not be able to reach those personal data. Their personal information will be kept secretly according to their request for instance if users do not want to share a surname, the surname will not be shared. Also, special information such as ids and passwords of the accounts will have a crypto mechanism to keep them safe.
- 1.3.6: The application will warn stakeholders that not obeying our “terms of use” and advise them to change their attitude or their business model, if the problem continues, they will be suspended from application.

## 2. Requirements

- 2.1: Since the project offers location-based solutions, location information of the users should be collected, and necessary permissions should be taken into consideration.
- 2.2: In our software, since suppliers will register the application with their business account, they must specify their tax numbers in order to prevent legal issues and safely identify their businesses.
- 2.3: The application has e-payment methods for some operations. Therefore, it needs to reach credit card information to do banking operations.
- 2.4: Since our application will be used from individuals other than the suppliers, we should have attained their personal information such as phone number, e-mail etc. as well.
- 2.5: Since application accomplish some procedures according to well-defined “Terms of Use” and “Privacy Policy”. We need to inform users clearly before they started to use the application.

## 3. References

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