TED UNIVERSITY

CMPE313 Project Proposal

Project Topic: *Hotel Management System*

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Introduction

Big entrepreneur Mr. X is planning to open a new, luxury touristic hotel complex to Turkey for the 2021 summer session. Hotel is going to be one of the biggest hotels in the region so it will have a lot of rooms, a lot of services and a lot of workers. He had already started the constructions of the hotel at the start of 2019, but since it is a very large hotel complex, the established finish date was 2022 July.

Due to the Covid-19 measurements and quarantine in 2020 year, just like the whole world, construction speed of the hotel is significantly decreased. This global problem caused to delay the full opening of the hotel to 2023 from 2022. Luckily, the main building of the hotel was able to finish in 2022 July and Mr. X decided to open his hotel as it is for the 2022 summer session. Then, he will also open the other parts of the hotel complex when their buildings are also finished.

Mr. X wants a management system for his whole hotel complex as fast as possible since he is going to make the opening this July. This management system should include the reservation system and the general management of the hotel such as workers' information, all rooms' information etc. Mr. X also expects that this system should be capable for the future shape of his hotel since he is going to open other parts of the hotel (for example spa, fitness saloon, special restaurants etc.) as their constructions finished. The development team should update/improve the management system when the other parts of the complex have been finished and system should be well developed since the customer satisfaction is very important for Mr. X.

Project Description

1. Overview

In this product our aim is to solve the hotel complex due to Covid-19. Although we want this product usable for the future changes. Therefore, we will create a product which will take care of (control) the reservation system and hotel management system such as workers information, rooms information. Then when we have done these parts, we will consider other parts of the hotel such as spa, fitness saloon and restaurants with reservation system.

In the software part we will have a database for each personal in order to keep track of them. Then we will conduct the reservation system in a better way by considering the capacity that the hotel can take and their schedule for each room. For a better management system due to Covid-19 we will want and control our staffs Covid-19 test cards for health insurance. Each room will be checked for its clearness every day and according to situation of each room we will declare its availability or not. By doing so it will be beneficial for future changes and Covid-19.

2. Objectives

In this product our goal is to create a better hotel management system after Covid-19 crisis for Mr. X. and other users. In the functional requirements part of our product, each room in the Hotel will not be available due to Covid-19 and we will not take an employee without there Covid-19 test cards. Therefore, in our product we will use a filter system adopted with the hotel management system. For non-functional requirement time for the systems work can change on database and product.

3. Target Customers

It is a hotel business tracking system for all receptionists and hotel managers to make their job easier.

There are two types of user for the System. One of them is the manager and the other one is the receptionist. They can use systems that are written below.

- Project can do hotel customer's entry and exit days controls.
- It can store and fetch customers Id cards and other customer information (like customers' HES codes).
- Following and controlling the shifting system for all workers.
- To get information about availability and use of recreational equipment.
- To get information about the auto parks availability.
- To get information about the customer host entry and exit.
- To get information about room availability(mini bar and cleaning situation).
- To follow customer pleasure from the customer satisfaction survey.

4. Value Proposition

We should start this project because of the pandemic there are so many hotels that need our project's functionalities in their job. The demand is increasing all the time.

Manager and receptionist can observe and control the hotel works in the digital environment easily. It removes the paper document process, and it makes the data storing more efficient way. At the same time manager and receptionist can communicate with workers without misinformation and misunderstanding.

Preliminary Plan

1. Planned Deliverables

- Designing and creating room reservation system
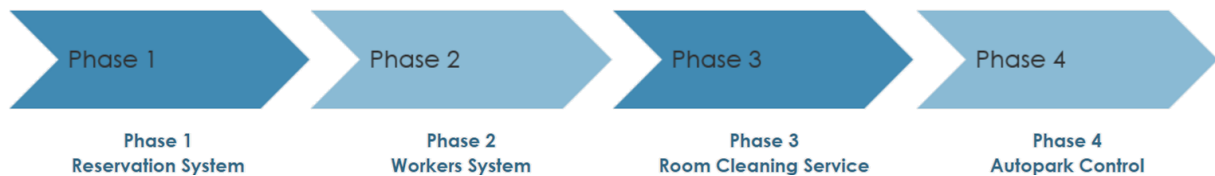- Designing and creating workers control system

- Designing and creating an auto park availability system
- Designing and creating room services system
- Guidelines workers to "How to use?" document

These are our deliverables for our project.

We will mainly use a plan-driven approach for our project, but agile methodologies will also be incorporated. So these deliverables will change according to our customers' needs and requirements.

At the end of each phases we are going to add new feature to our system. At the end of Phase 1, we will have Reservation System released for the customer usage by this they can reserve their rooms for their customers. End of the Phase 2, we will deploy the Workers System to our customer, and they can start to manage their workers easily. At Phase 3 ending, they can now manage room services regularly. At Phase 4 ending, we will release Auto Park Control system that we can see the current situation at the auto park. At the end of 4 phases we will have a completed application used by the hotel.

2. Working Plan

Phase 1	Phase 2	Phase 3	Phase 4
Phase 1 Reservation System	**Phase 2** Workers System	**Phase 3** Room Cleaning Service	**Phase 4** Autopark Control

As we can see above, we got 4 phases for these project. Each one of them is a system while we will deploy them to the hotel at the end of phases.

Our Project team is going to use incremental development because we are going to release intermediate version to usage of our customer and with their feedback, we will improve our done part and the rest will continue to develop next system.

As a development team we are 4 people and we all have our computers. Every one of use have knowledge about Java, OOP, SQL and Database design. As we want to do a desktop project we will get training about C# and Windows Forms trainings and after these training we can start our project.

We are going to handle every phase together and we will give each one of the member's tasks and we are going to do weekly meetings and we will discuss our task and we organize our tasks.

Our milestone in our projects is every end of the phases because we are going to release new version of our program and this will change our and the customers working style.