

# Group Members:

Süleyman Gölbol, Arash Ziaee

## **TOPIC for General Solution Direction:** Unique Queue Application

- **Problem Description :**

What is happening if every reservation/appointment gets done in one ambient?

After COVID-19 every municipal organization etc., they are trying to have their website or system for making appointment reservations.

So imagine a 100-organization, each of them has their way of having an appointment. This is going to be so confusing for most of the people to manage their reservations.

- **Aims and Goals :**

The goal of this project is to have a unique system that every user can easily have access to general information of the state offices and organization.

- **Solution :**

My solution is to design an application that collects every essential information (reservation, e-mails, etc...) in a user-friendly environment.

So every user can easily have access and it is not going to be so confusing for people.

# Feasibility Study on Unique Queue Application

## Technical Feasibility

**The Unique Queue Application is technically possible to proceed but it will need so much energy. It is also too much risk and needs too much support.**

Choosing the Team that they are going to work on the project is not that hard and it is important.

- The number of the members should not be too much and it is enough, around 10 people.
- The team members (designing team, development team, supporting team, ...) should be professional and experienced. For every s
- Before selecting the team members we should be sure about their knowledge by having an Interview/Test. We are going to use Skills Testing, pre-enrolment tests in some shape or form to determine if a candidate is a good fit, through the Toggle Hire to test applicants for real-world skills and their job, and not rely on other screening methods to make hiring decisions.
- An important need for managing a business team is because the project needs to be controlled well.
- We want to develop the application for both android/ios and we are going to use Java/Swift for it. We will use free software licenses like GNU GPL, Apache Licence. But also we will use a paid license for the hosting of database system and control which is Microsoft SQL Server 2019.

# Economy Feasibility

YEARS	2021	2022	2023	2024	2025	TOTAL
Benefits: Increased Sales		125000	130000	135000	140000	530000
Reduced Inventory Costs		10000	10000	10000	10000	40000
Total Benefits		135000	140000	145000	150000	570000
Development Costs Software Lic.	1000	0	0	0	0	1000
Development Labor	40000	0	0	0	0	40000
Total Development Costs	41000	0	0	0	0	41000
Ope. Cost Hardware		3000	3000	3000	3000	12000
Software		2000	2000	2000	2000	8000
Operational Labor		20000	20000	20000	20000	80000
Total Operational Costs		25000	25000	25000	25000	100000

Total Costs	41000	25000	25000	25000	25000	141000
Total Benefit.-Total Costs	41000	110000	115000	120000	125000	511000
Cumulative NCF	41000	160000	165000	170000	175000	-
Return on Inv	511000 / 570000 = %89.6					
Break-Even Point	0 Years of negative cumulative cash flow +  110000-511000 /125000 = 0.32 year					

## Operational Feasibility

### Have the agreement the companies and agencies

For sure companies have their own rules for privacy. We need to have agreements with these companies and agencies to have access to their data to make the procedure faster and clean. We have to make sure that we find a fair deal with them.

For having the perfect result this project needs time and it should not be a serious deadline. From designing and developing the app and website everything has to be concurrently together.

We need good data for the test and have the best approach, and it is on the Managing team.

The project will have financial benefits for the government and also companies and agencies.

We collect a massive website that costs every company or agency to maintain or support into one website and application so it is much easier and faster to control and secure one place that controls so many places.

The project will make a union between companies for their system so there will not be chaos.

The project should support and have the agreement of the government and so many policies before it starts, when it is done we are going to have massive support from so many Banks and other companies under the control of Governments.

Google Doc:

[https://docs.google.com/document/d/e/2PACX-1vQOTP6B6S16RhrU\\_Ip3SnuoTKdHUWt-ElxqRYEQNtO2Yvca20ssBD4PLeLxBmHFtozrxpr8nJ-309s/pub](https://docs.google.com/document/d/e/2PACX-1vQOTP6B6S16RhrU_Ip3SnuoTKdHUWt-ElxqRYEQNtO2Yvca20ssBD4PLeLxBmHFtozrxpr8nJ-309s/pub)

Github Link: <https://github.com/Group-6-Software-Engineering/Project>