1 INTRODUCTION

**1.Purpose: here we include the goals of the project**

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| **Goals** | |
| **Customers** | Customers need to sign up the booking system. |
|  | Customers need to log in the booking system. |
| Customers will receive a QR code and a number. |
| Customers need to be more accurate in telling store managers the time of arrival of customers and the list of purchased goods. |
| Customers need to make an appointment to arrive at the store, and the store manager will ask the customer for the number, as well as the expected duration of the visit and the expected time to arrive at the store. |
| Customers specify the categories of goods they intend to buy. |
| If there is no number of customers, they can be replaced by tickets. There are relatively few customers who can't make an appointment in advance with the number. |
| Before sending the request retrieval number, the customer will receive an alert about the time it takes to get to the store from the current location. |
| Customers need to report the search number in their location. |
| Customers can get recommended tours according to their purchase plan. |
| Customers can receive the periodic notification of available slots in a day or time range. |
| Allow customers to cancel the retrieved number and the booking. |
| **Store Manger** | Store manager need to log in the booking system. |
|  | The store manager should determine the number of customers currently staying in the store. |
| The store manager needs to verify the number and check the customer's QR code. |
| Store manager need to set the maximum number of customers staying in the store. |
| If the customer does not have a QR code and only has tickets, the store administrator should check the customer's ticket. |
| Store managers need to manage the order in which customers enter the store outside the store. |
| Retrieved numbers and QR codes are unique. |
| store manager should receive a push notification when a QR code is scanned. |
| Allow store managers to retrieve numbers for users who cannot access the app |
| The store manager customer needs to confirm whether the customer has scanned the QR code when the customer leaves the store. |
| **Domain Assumption** | Each number can only represent one customer. |
|  | Each QR code can only represent one number. |
| The number of online booking places should be less than the total number of places (newly added) that can be queued on the same day. |
| If the number detected by the QR scanner is less than the current number of customers, the customer can be denied access to the store. |
| Customers could retrieve only one number simultaneously. |
| Each QR code becomes invalid after being scanned by QR scanner |
| Number of customers visiting in the store can be decreased automatically when customers leave the store. |
| When a new manager joins in the store, the store registers him/her in the system. |
| Retrieved numbers and QR codes are unique. |
| **Requirement** | The booking system should be very simple to use. |
|  | Control the arrival time of customers and the distance of customers queuing. |