SOFTWARE ENGINEERING

MODULE CODE: B9IS118

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Introduction

- We have been asked to create a booking system for a leisure center that has different activities. The users will need to be able to create an account which will include their full name, email address, telephone number and address. As the facility mainly caters for children the user will need to be able to add their children's name along with their date of birth. Once the user has created an account, they will then be able to log into the system and book an activity.

- The activities are trampolining, inflatables and soft play. They run on hourly time slots. The user should be able to select one or multiple activities.

- Parties are also held in the center and the users should be able to book a party too.

- Administration staff will be able to log into the system and amend any of the activities details.

Agile Epics and User Stories
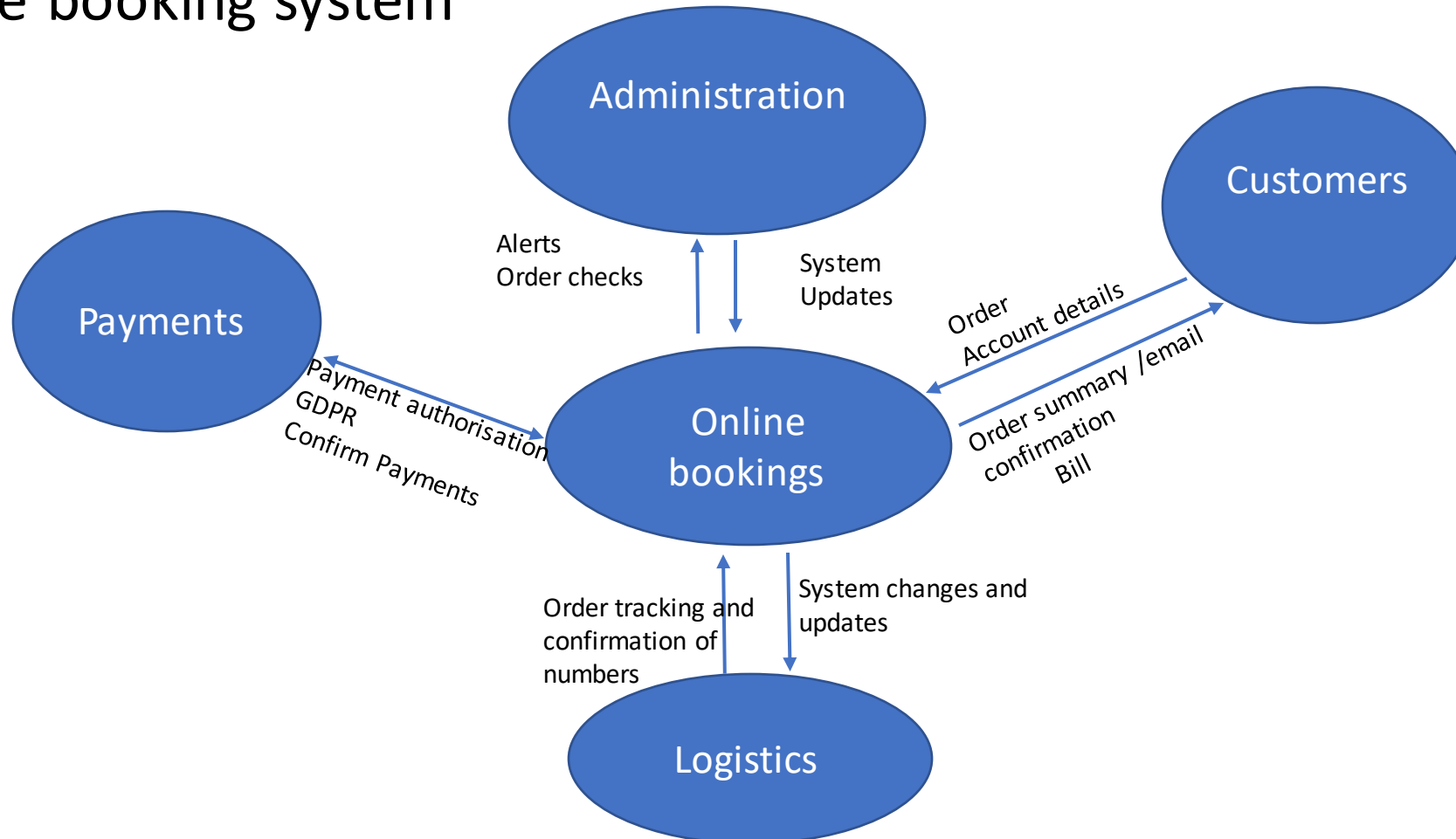
- Book Activities.

It is critical to creating a home screen for a leisure online booking system that offers a "book an activity" capability so that users can immediately discover data.

- The "Search & Filters" User Epic is the next most essential User Epic to be constructed in this feature.
  - As a User, I have to see the programs based on the largest to smallest rates therefore I may make appropriate bookings. So I should limit my choices and choose the finest fit.

- Enable customers to choose the "Visitor Access" to reserve events without requiring them to create a profile.
  - As a User, I'd prefer to double-check the booking details after I've made my decision and before I pay, to ensure there are no mistakes.
  - As a Visitor, I'd prefer the ability to continue making a booking in "Visitor Access" because then I can reserve a ticket without having to sign in or up.
- The most important aspect of the actual business is making a simple online payment. Providing a versatile and user-friendly payment gateway.
  - As a user, I need a simple method of completing an online transaction thus that I may complete my transaction without delay.
- Once the transaction is complete, a simple feature is to send an email confirmation together with a PDF of the ticket.
  - As a User, I'd want to obtain an affirmation of online bookings once my transaction is complete so that I can be comfortable that my leisure booking is secure.

Context Model

- Online booking system

In Scope of the project.

- Customer login
- Administration login
- System updates
- Booking facility
- Payment facility
- Databases
- Team management

Out of Scope:

Payment's functionality

Code deployment

GDPR

Timelines

Changes to requirements

Entity relationships

Class Diagrams

Sequence Diagrams

Testing