**4170207**

Software Engineering Theory

**Topic 4**: Fitness club Management System

**Final Project**

**November 2020**

Team

|  |  |  |  |
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Document purpose and audience

* This software targets health enthusiasts and gymaholics.
* It’s purpose is to alter gymnasium, fitness admission strategies and provide the best service to customers.
* Make admission process easier and less time consuming for customers.
* Allows members to book class of their choice from the comfort of their own homes and pay fees by electronic cash transfer/card details.
* This fitness club system includes: Admin, member and trainer.

Audience

* CEO
* Project manager
* Member
* Trainers
* Admin

System Models

A picture containing diagram

Description automatically generated1. Class diagrams

|  |  |  |
| --- | --- | --- |
| Class name | Subsystem | description |
| Users | Member, Admin ,trainer | Users in the software system are the subsystems of the main class |
| Member | PackagePaymetntDetails , card | The member has two subsystems which are the payment details and the card information |

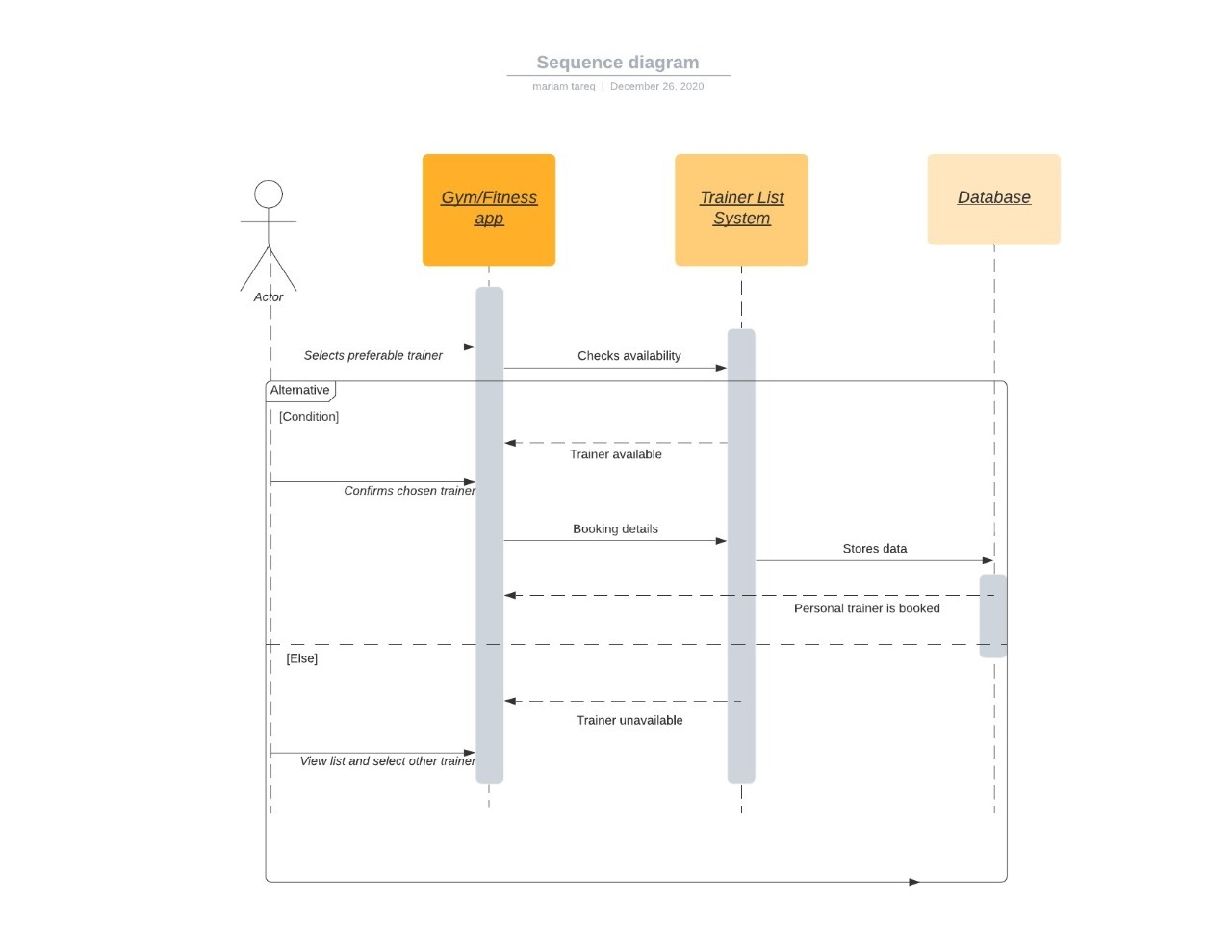
2.Sequence diagram

Diagram

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Diagram

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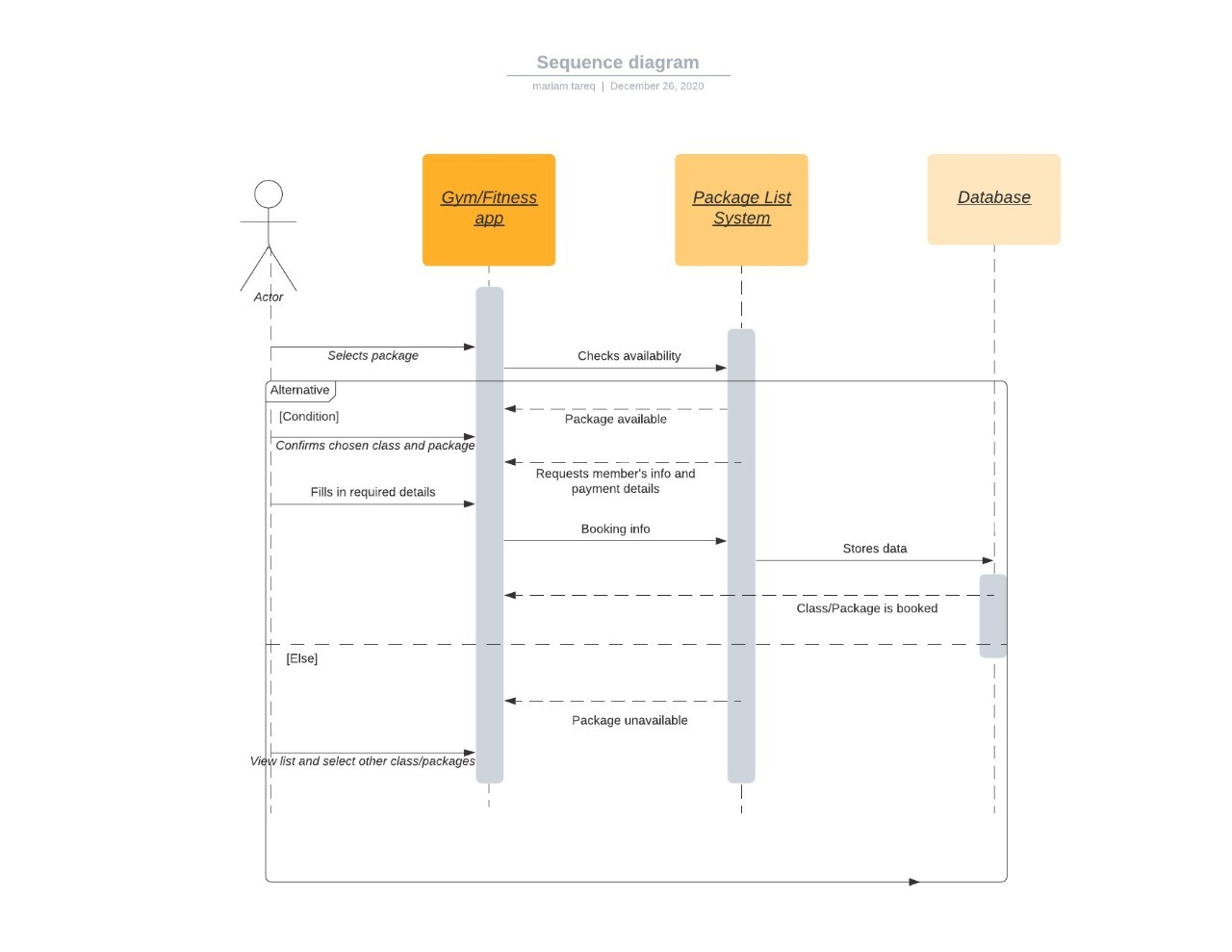


A picture containing graphical user interface

Description automatically generated

Diagram

Description automatically generated



3.Physical Entity-Relationship Diagram

Diagram

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User interface design

application icon

Graphical user interface

Description automatically generatedThe login page appearing for member

.Enter username

Graphical user interface, application

Description automatically generated.Enter password

.Registration page

Table

Description automatically generated Choose perferred package

.Choose payment method and fill card details

Graphical user interface, application

Description automatically generated

Data flow chartDiagram

Description automatically generated

Diagram

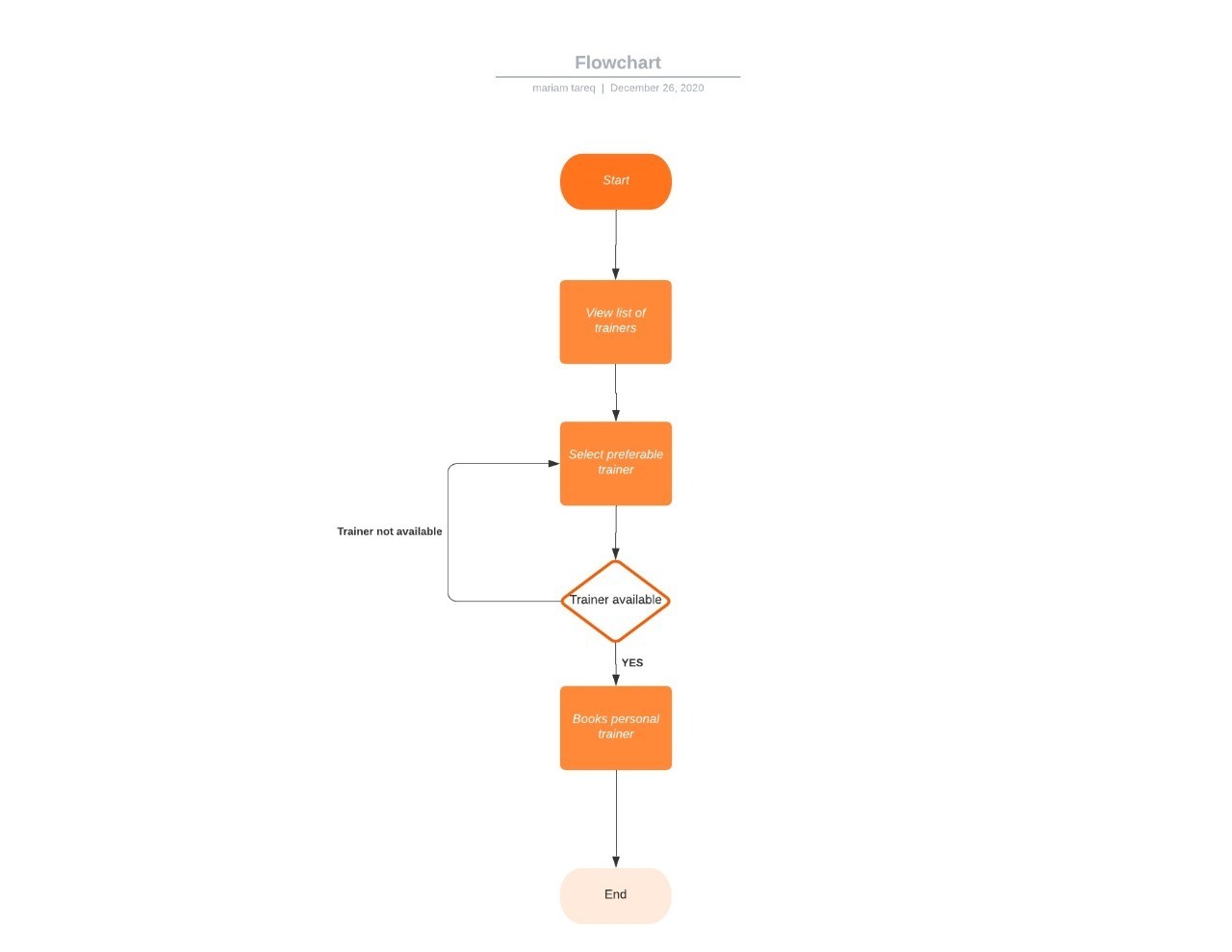
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Diagram

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Resources and links used

[www.luicidchart.com](http://www.luicidchart.com)

[www.clearly.com](http://www.clearly.com)

**Owner ship report**

|  |  |
| --- | --- |
| Item | Owners |
|  |  |

Policy Regarding Plagiarism:

Students have collective ownership and responsibility of their project.Any violation of academic honesty will have severe consequences and punishment for ALL team members.

فى حالة ثبوت الغش سيأخذ الطالب سالب درجة المسألة ،و فى حالة تكرار الغش سيرسب الطالب فى المقرر.1

.تشجع الكليةعلى مناقشة الأفكار و تبادل المعلومات و مناقشات الطلاب حيث يعتبر هذا جوهريا لعملية تعليمية سليمة2

.ساعد زملاءك على قدر ما تستطيع و حل لهم مشاكلهم فى الكود و لكن تبادل الحلول غير مقبول و يعتبر غشا.3

.أى حل يتشابه مع أى حل آخر بدرجة تقطع بأنهما منقولان من نفس المصدر سيعتبر أن صاحبيهما قد قاما بالغش.4

.قد توجد على النت برامج مشابهة لما نكتبه هنا أى نسخ من على النت يعتبر غشا يحاسب عليه صاحبه.5

.إذا لم تكن متأكدا أن فعلا ما يعد غشا فلتسأل المعيد أو أستاذ المادة.6

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