

Cairo University

Faculty of Computers and Artificial Intelligence



CS251

FORLOOP

Software Design Specifications

Version 2.1

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6 of 2021

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Team

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Document Purpose

- The purpose of this document is to clarify software requirements that are agreed upon by the stakeholders by specifying the needed functionalities of the software to minimize development time and cost by making the requirements clear.

Audience

- Software Development Team • Stakeholders

System Models

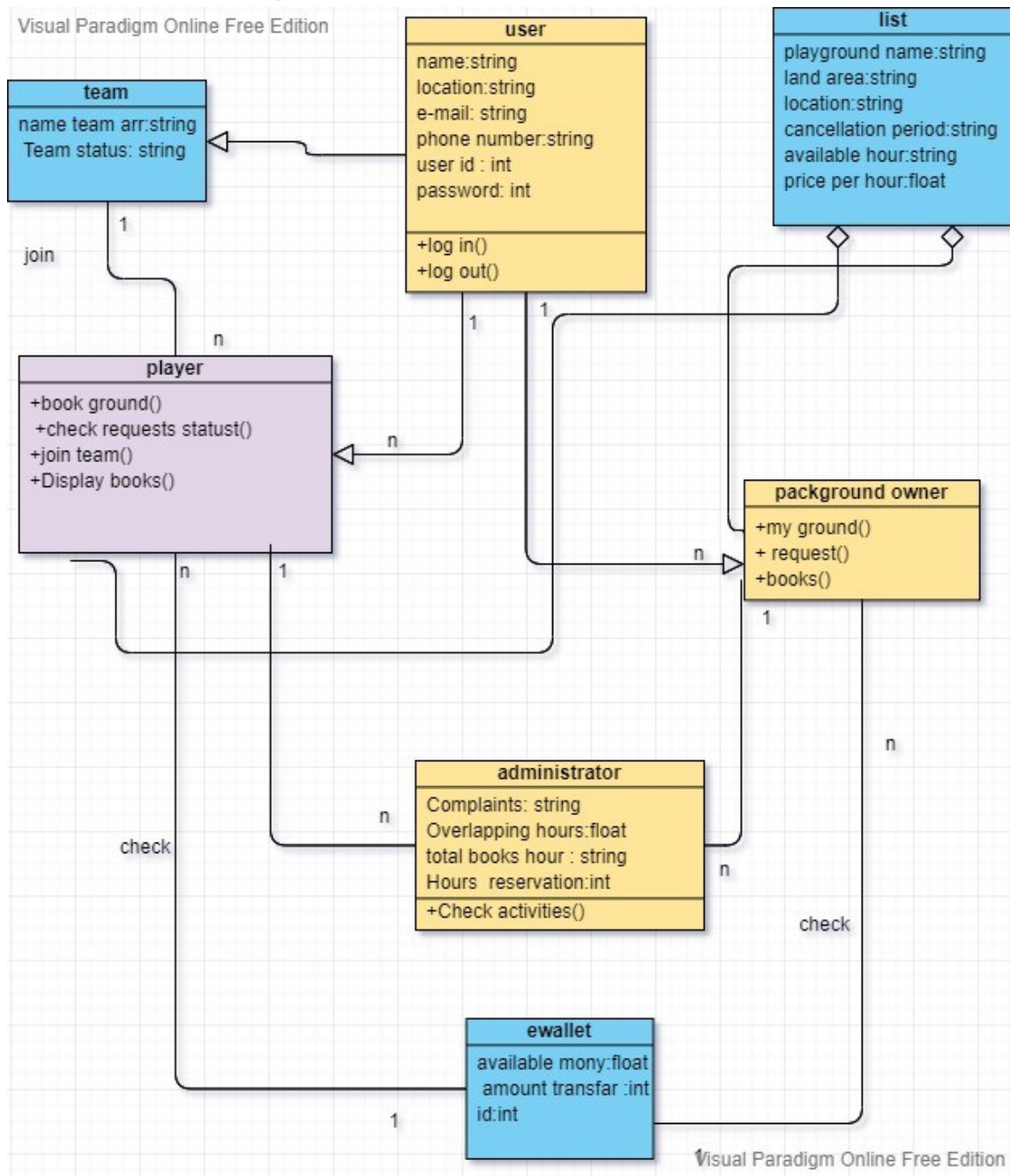


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I. Class Diagram(s)





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II. Class Descriptions

Class ID	Class Name	Description & Responsibility
1.	user	Class makes any person log in or log out
2.	Playground owner	Class makes playground owner add or edit list of playground
3.	player	Class makes player book nearby ground
4.	administrator	Class checks information of user (owner or player)
5.	list	Class includes all information about ground and available hour that user can book or add
6.	team	Class allows player to join with team and contain all information about member of team
7.	ewallet	Class allows user(owner or player)to check available money



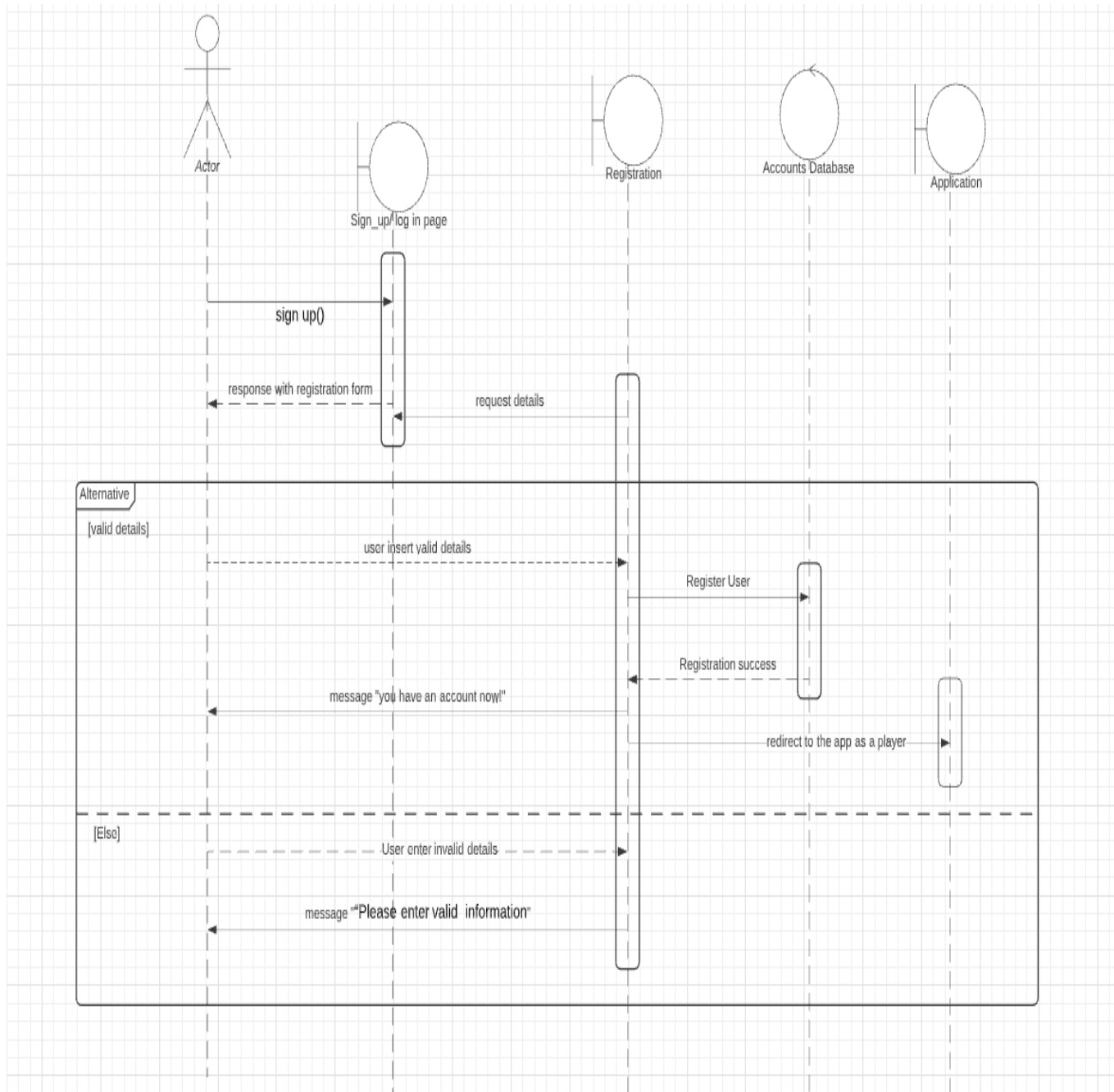
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III. Sequence diagrams

1. Playground Owner/Player Sign-up





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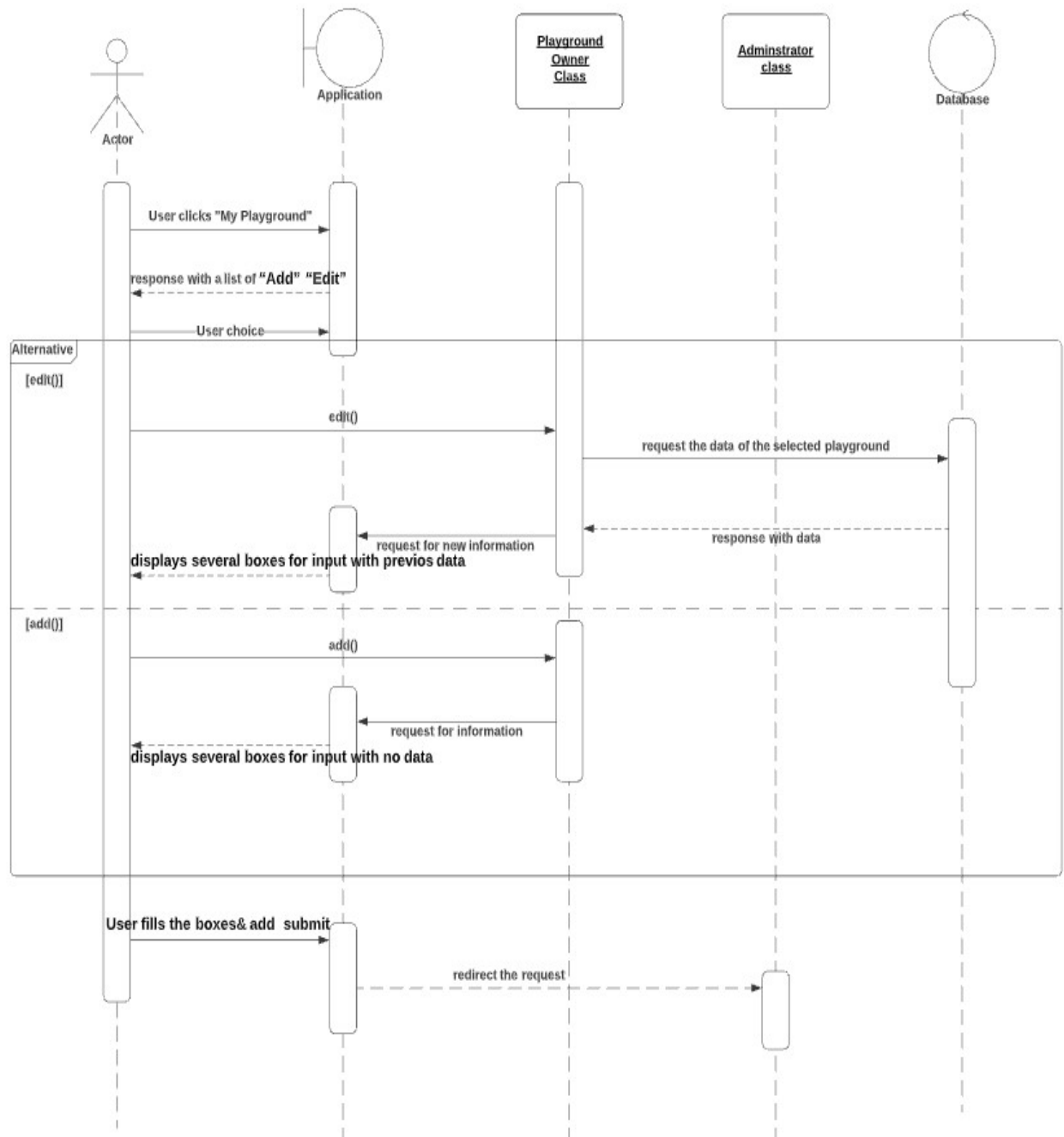
2. Add/Edit Playground



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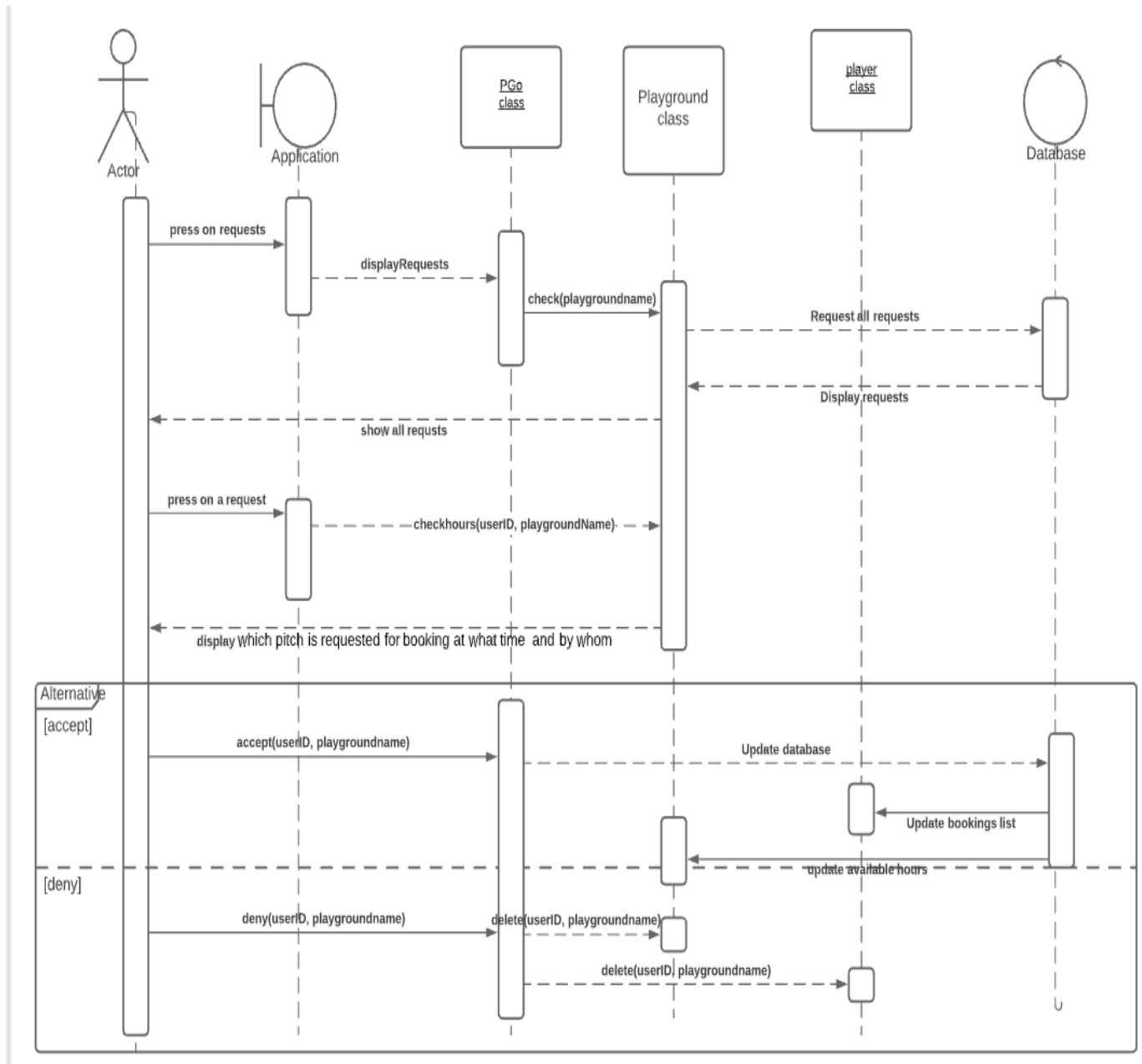


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3. Display requests & accept a request or deny it:





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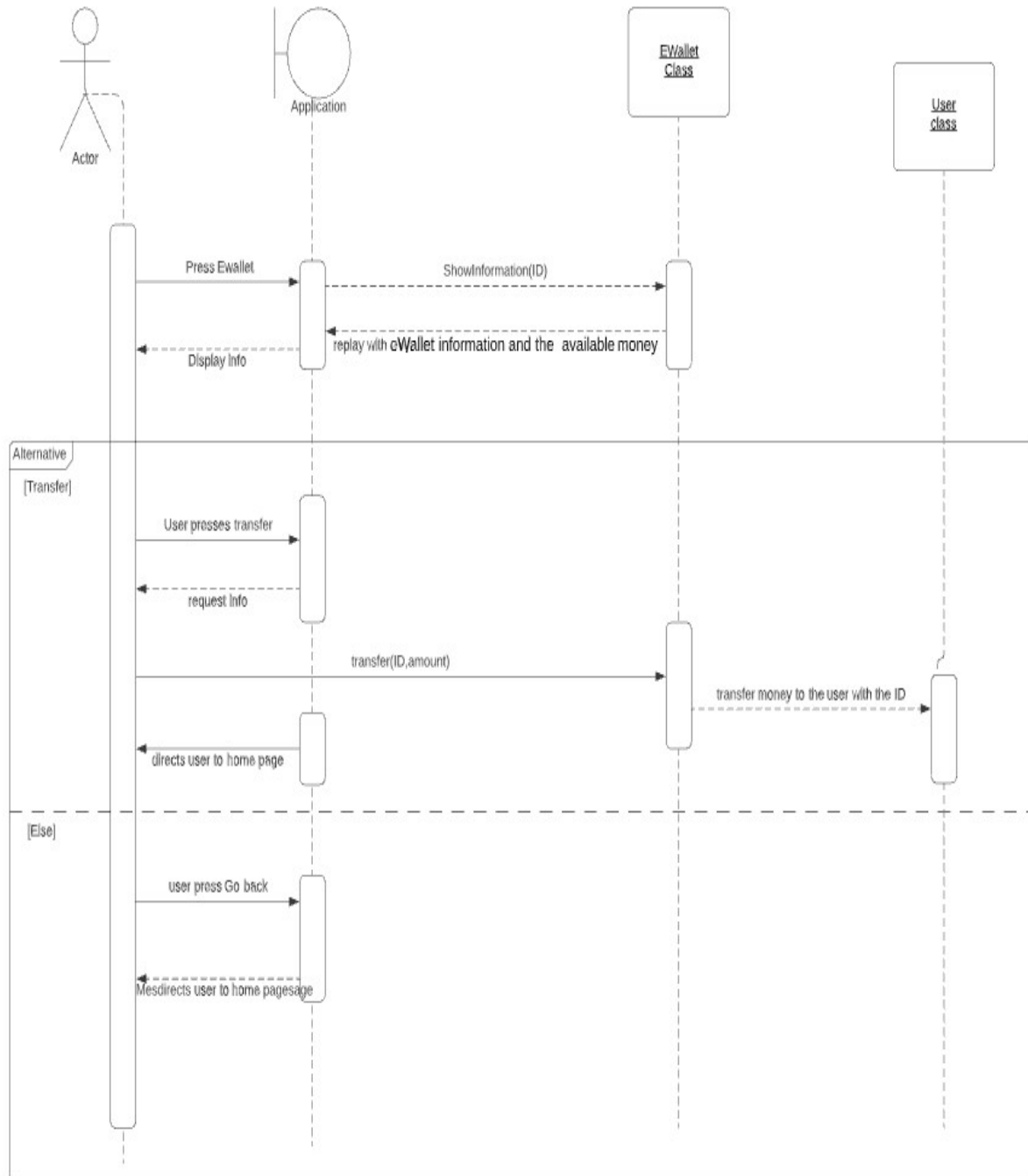
4. Check eWallet & transfer money



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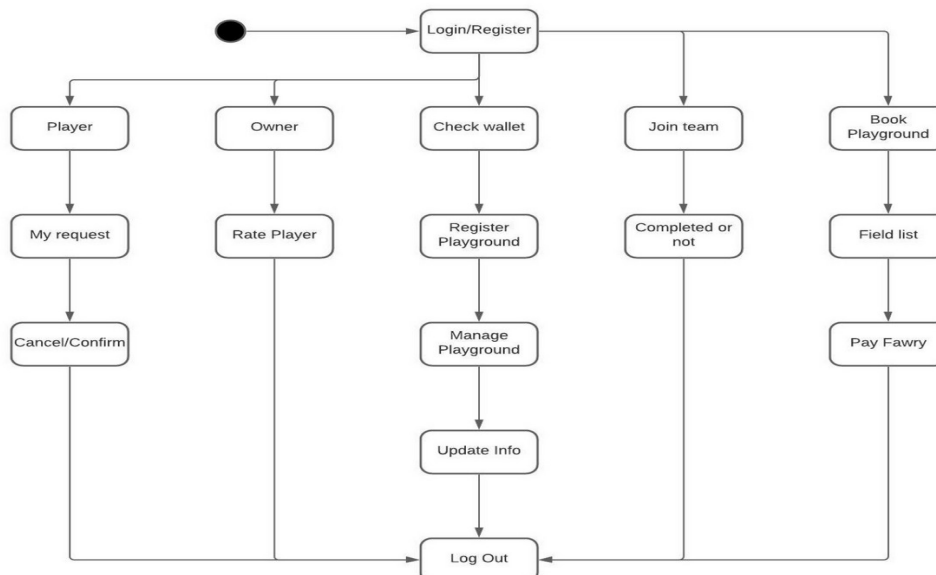
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Class - Sequence Usage Table

Sequence Diagram	Classes Used	All Methods Used
1. Sign up field	Class User Class Player	signUp()
2. Edit Playground field	Class Playground Owner Administrator class	edit(): return the data entered to the playground with enabling the user to update it. add() check()
3. Display requests & accept a request or deny it field	Playground Owner class Player class Playground class	check(playgroundname) checkhours(userID, playgroundName) accept(userID, playgroundname) deny(userID, playgroundname) delete(userID, playgroundname)
4. Check eWallet & transfer money	Player class User class EWallet class	ShowInformation(ID) transfer(ID,amount)

State Machine Diagram





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Tools

- [Lucidchart.com](https://lucidchart.com)
- Visual paradigm online free edition

Ownership Report

Item	Owners
Mohamed Foda Abdullah	class diagram class description State Diagram
Aya Gamal Mohamed	sequence diagrams sequence table