

Cairo University

Faculty of Computers and Artificial Intelligence



CS251

Software Engineering I

Project Name

Software Design Specifications

Version X.X

Team Names and Emails

Month & Year



CS251: Phase 2 – <AOA with Semicolon>

Project: <GOFO>

Software Design Specification

Contents

Team	3
Document Purpose and Audience	3
System Models	4
I. Class Diagram(s).....	4
II. Class Descriptions	5
III. Sequence diagrams.....	6
Class - Sequence Usage Table.....	9
IV. State Diagram	10
Tools	10
Ownership Report	11



CS251: Phase 2 – <AOA with Semicolon>

Project: <GOFO>

Software Design Specification

Team

ID	Name	Email	Mobile
20190664	Aya Allah Abed Mahmoud	ayaallah.abed.20@gmail.com	01124579293
20190352	Omer Khaled Mohamed Mohamed	omerkhaledmohamedmohamed123@gmail.com	01228703875
20190299	Abdelrahman Mohamed Saad Abdu	bodyeg123@gmail.com	01145817461

Document Purpose and Audience

- This document contains class diagram and its description and contains sequence diagrams and its usage tables.
- This document describes the GOFO software system and how it works, who will use it and how.
- The target audience: project manager, developers and may be customers.



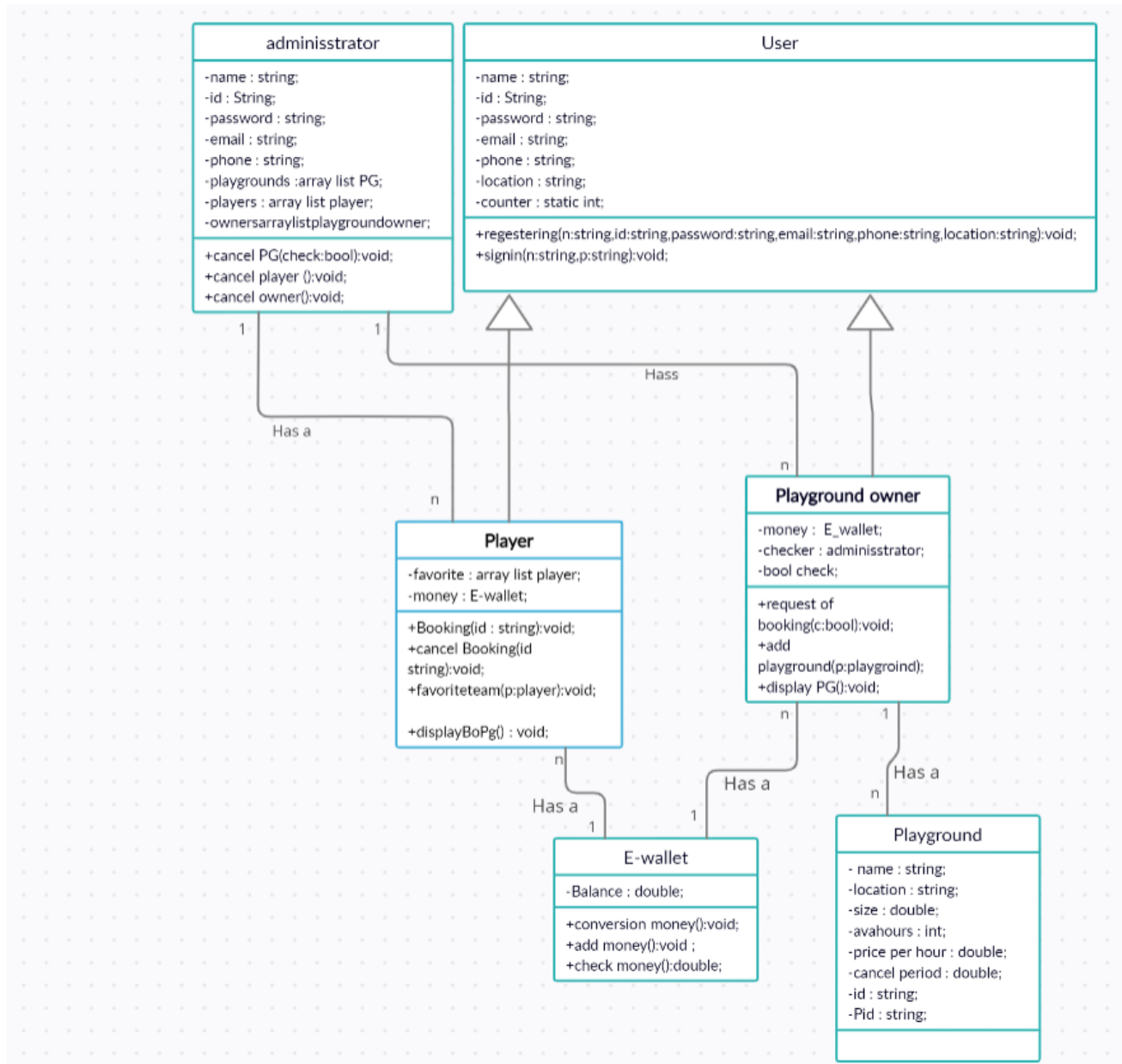
CS251: Phase 2 – <AOA with Semicolon>

Project: <GOFO>

Software Design Specification

System Models

I. Class Diagram(s)





CS251: Phase 2 – <AOA with Semicolon> Project: <GOFO>

Software Design Specification

II. Class Descriptions

Class ID	Class Name	Description & Responsibility
1	user	Defines the specifications of the users of the program in terms of name, id, password , email , phone , location , counter , It has two functions: creating profiles for playground owners or opening their current profile
2	player	He inherits the qualities of a class user with the two characteristics he has and makes a reservation for the stadium or can cancel the reservation and make a favorite team for him that can see all the current players
3	Playground owner	He inherits the qualities of class user with the addition of three characteristics of his own and rejects or accepts a reservation request for one of his stadiums as much as he adds stadiums if they are identical to the standards and can see all the other playground owner
4	E-wallet	You have a variable called balance that saves the amount of money owed to each customer in it and can be paid through it to book stadiums we will transfer money between customers and allow to add more money in it or offer the money that exists currently
5	playground	It is a class that has the specifications of each playground that the owner adds. consists of several properties like : name , location , size , avahours ,price per hour , cancel period , id , pid.
6	Administrator	consists of several properties like : name , password , email , phone ,player , playground , owner arraylist , id . He has the right to clear or stop any playground if he has received many complaints from her or deleted player or playground owner

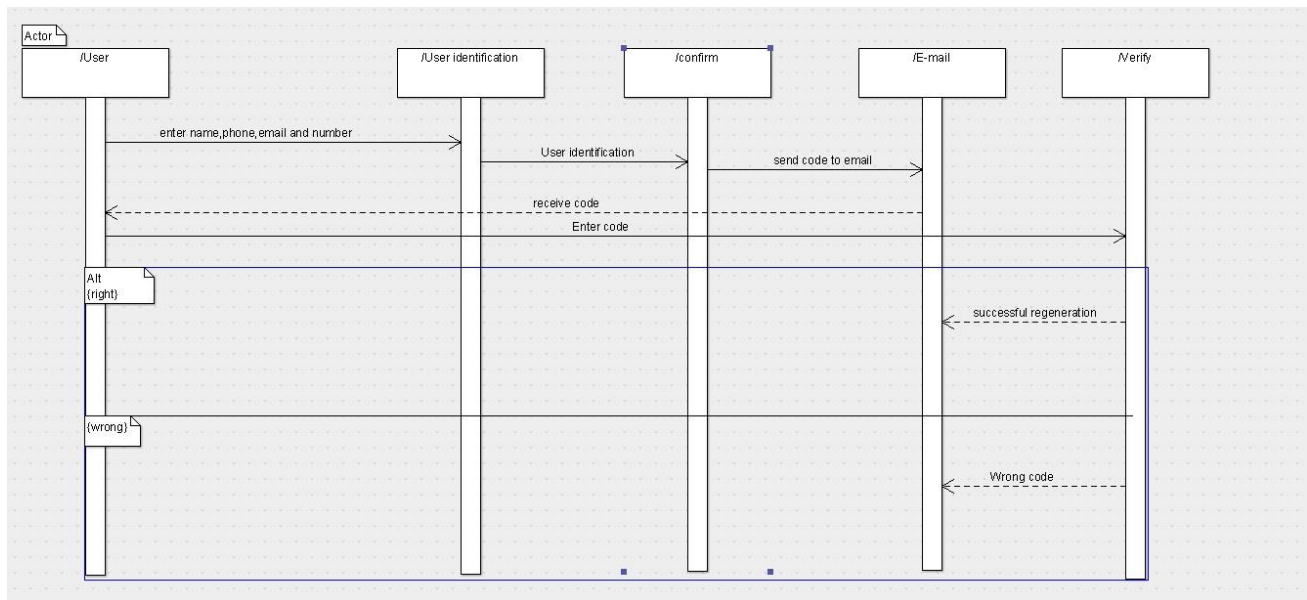


CS251: Phase 2 – <AOA with Semicolon> Project: <GOFO>

Software Design Specification

III. Sequence diagrams

Registration sequence diagram



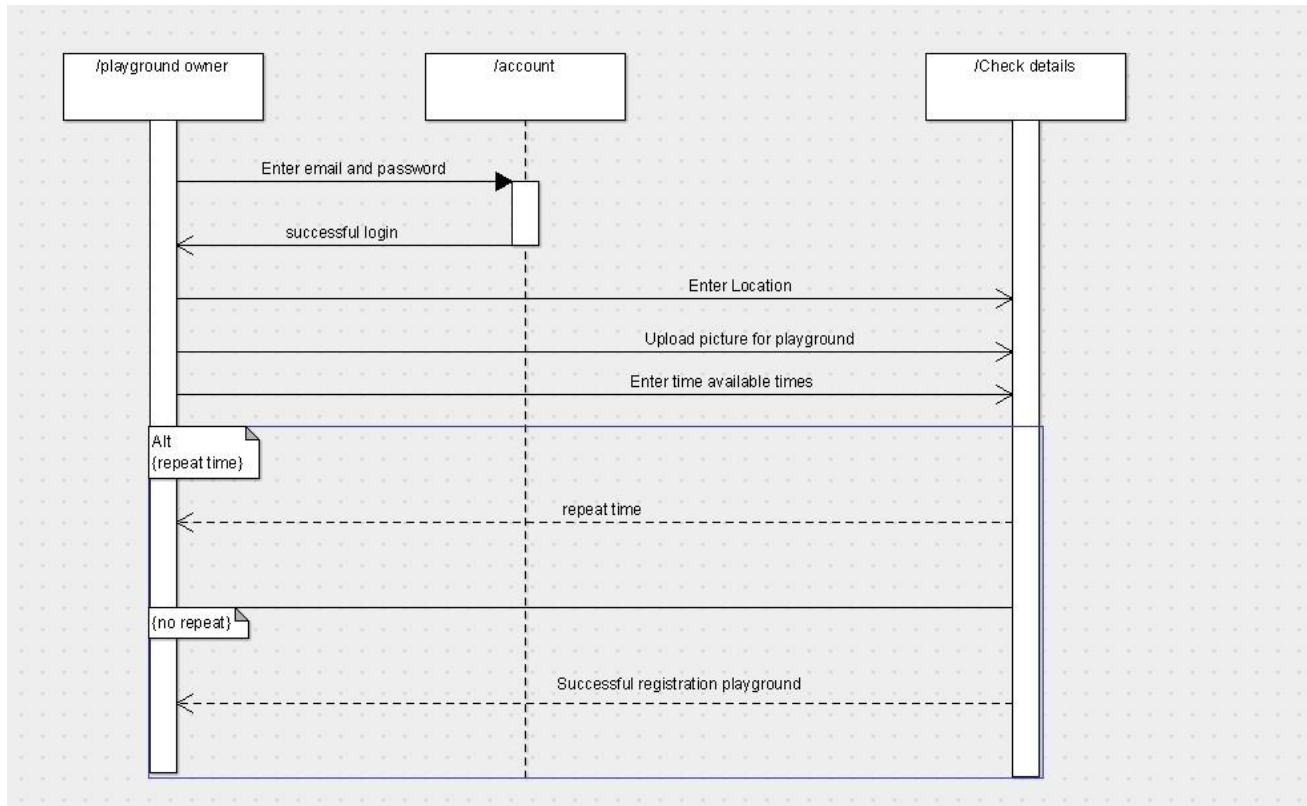


CS251: Phase 2 – <AOA with Semicolon>

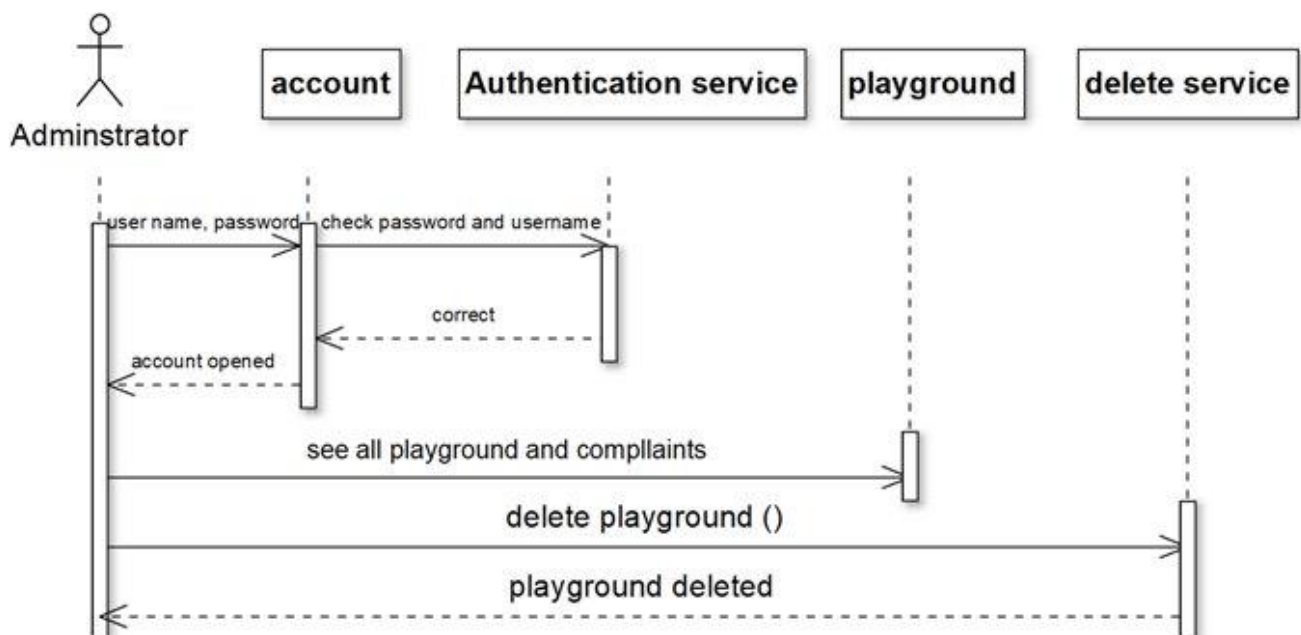
Project: <GOFO>

Software Design Specification

Registration playground sequence diagram



Delete playground sequence diagram

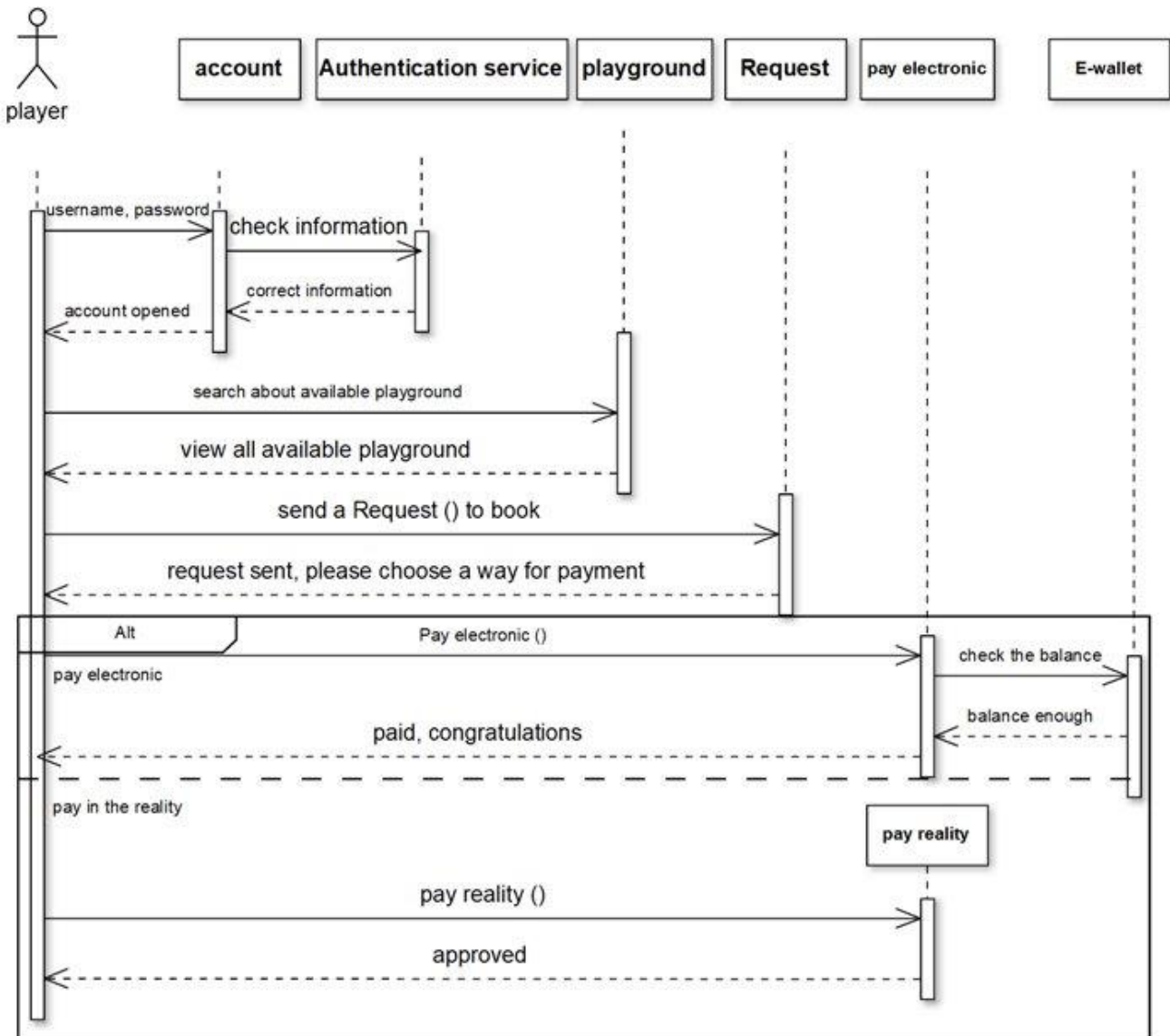




CS251: Phase 2 – <AOA with Semicolon> Project: <GOFO>

Software Design Specification

Book playground sequence diagram





CS251: Phase 2 – <AOA with Semicolon> Project: <GOFO>

Software Design Specification

Class - Sequence Usage Table

Sequence Diagram	Classes Used	All Methods Used
1. Registration	Class user	Methods registering Methods sign up
2. Registration playground	Class playground owner Class playground	Methods add Methods playground
3. Delete playground	Class Administrator Class playground	Delete method
4. Book playground	Class player Class playground Class E-wallet	Search available playground method Request method Payment method

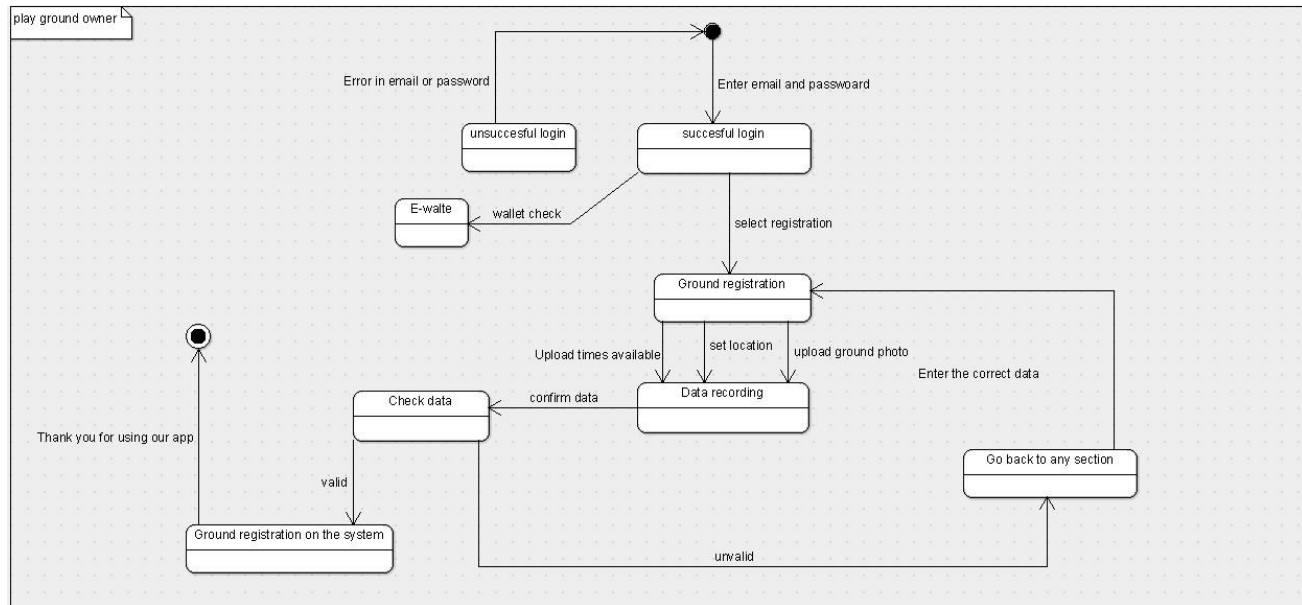


CS251: Phase 2 – <AOA with Semicolon>

Project: <GOFO>

Software Design Specification

IV. State Diagram



Tools

- Online diagram.
- Pacestar UML Diagrammer.
- Argo UML.



CS251: Phase 2 – <AOA with Semicolon> Project: <GOFO>

Software Design Specification

Ownership Report

Item	Owners
Aya Allah Abed	Sequence diagrams Delete playground and Book playground Table usage for them playground owner user With its Doc Github
Omer Khaled Mohamed	Class diagram description table player playground administrator with its Doc main
Abdelrahman Mohamed Saad Abdu	Sequence diagrams Registration Registration playground Table usage for them State diagram E-Wallet with its Doc