Software Design Specification
Football Betting App

TABLE OF CONTENTS

1. INTRODUCTION

The football betting app project is an application designed to provide users with a platform to place bets on football matches.The app will offer users a variety of betting options, including pre-match and in-play bets.The app will also provide users with real-time updates on the matches and betting odds..The project will be developed in phases, with the first phase focusing on the core functionality of the app, such as user registration, placing bets, and viewing betting history.Users can withdraw from the bet before the results are published.The app should provide users with real-time updates on the scores, statistics, and other relevant information about the matches.In this app,users can deposit amount into wallet and also withdraw funds from it.The football betting app project aims to provide users with a convenient and secure platform to place bets on football matches while promoting responsible gambling.

A football betting app allows users to place bets on different football matches, leagues, and tournaments. It provides users with a variety of betting options, such as pre-match bets, in-play bets etc.The app also provides users with real-time updates on live matches, scores, and statistics.The scope of a football betting app can also include virtual football betting, where users can bet on computer-generated football matches. A football betting app provides a convenient and engaging platform for football fans to place bets on their favorite teams.The app also offers opportunities for users to earn money by accurately predicting the outcomes of matches. With the increasing demand for online betting platforms, a football betting app has become a relevant and necessary tool for betting enthusiasts.

2. DATABASE DESIGN

REGISTRATION

NO.	FIELD NAME	TYPE	CONSTRAINTS	DESCRIPTION
1	User_Id	Int(5)	Primary Key	Id of the User
2	User_Name	Varchar(50)	Unique	Name of the User
3	Email	Varchar(50)	Not Null	Email of the User
4	Phone_Number	Int(11)	Not Null	Phone number of the User
5	Pan_Card	Varchar(20)	Not Null	PAN CARD for verification
6	Password	Varchar(20)	Not Null	Password

LOGIN

NO.	FIELD NAME	TYPE	CONSTRAINTS	DESCRIPTION
1	Login_Id	Int(5)	Primary Key	Id used for login
2	User_Name	Varchar(50)	Not Null	Name of the User
3	Password	Int(11)	Not Null	Password used by User
4	Usertype	Int(1)	Not Null	Type of the user login
5	Lastlogintime	Time	Not Null	Last Login time of user

MATCH

NO.	FIELD NAME	TYPE	CONSTRAINTS	DESCRIPTION
1	Match_Id	Int(5)	Primary Key	Auto Increment ID of Match Table
2	Match_Date	DateTime	Not Null	Date of the Match held
3	Home_Team	Varchar(20)	Not Null	Name of the Home Team
4	Away_Team	Varchar(20)	Not Null	Name of the Away Team
5	League_Name	Varchar(20)	Not Null	League Name of the match
6	Venue	DateTime	Not Null	Venue in which the teams are playing
7	Match Status	Varchar(20)	Not Null	Match status wheather it is upcoming or ongoing .

BET

NO.	FIELD NAME	TYPE	CONSTRAINTS	DESCRIPTION
1	Bet_Id	Int(5)	Primary Key	Auto Increment ID of Bet Table
2	User_Id	Int(5)	Foreign Key	Id of User
3	Match_Id	Int(5)	Foreign Key	Id of Particular Match
4	Betamount	Int(11)	Not Null	Amount used for betting
5	Betodds	float(20)	Not Null	Odds in which the bet is performed
6	Betdate_And_Time	DateTime	Not Null	Date and time of bet performed
7	Bet_status	Varchar(50)	Not Null	Bet status ex:Home,draw,away

PAYMENT

NO.	FIELD NAME	TYPE	CONSTRAINTS	DESCRIPTION
1	Payment_Id	Int(5)	Primary Key	Auto Increment ID of Payment Table
2	User_Id	Int(5)	Foreign Key	Id of User
3	Bet_Id	Int(5)	Foreign Key	Id of Particular Bet
4	Payment_Amount	Int(11)	Not Null	Amount processed for betting payment
5	Payment_Date	Date	Not Null	Date in which payment is done
6	Payment_Time	Time	Not Null	Time in which payment is done
7	Payment_Status	Varchar(10)	Not Null	Status of the bet ex:paid

RESULT

NO.	FIELD NAME	TYPE	CONSTRAINTS	DESCRIPTION
1	Result_Id	Int(5)	Primary Key	Auto Increment ID of Payment Table
2	Match_Id	Int(5)	Foreign Key	Id of Particular Match
3	Home_Team_Score	Int(5)	Foreign Key	Home Team Score
4	Away_Team_Score	Int(5)	Not Null	Away Team Score
5	Result_Date	Date	Not Null	Result Date Published
6	Game Status	Time	Not Null	Status of game after result
7	Result_Odds	Varchar(10)	Not Null	Result Odds

WINNING AMOUNT

NO.	FIELD NAME	TYPE	CONSTRAINTS	DESCRIPTION
1	w_Id	Int(5)	Primary Key	Auto Increment ID of Winning Amount Table
2	Match_Id	Int(5)	Foreign Key	Id of Particular Match
3	Bet_id	Int(5)	Foreign Key	Id of Particular Bet
4	Winning_Amount	Float(20)	Not Null	Amount won
5	Winning_Odds	Float(20)	Not Null	Winning odds when the result published

FEEDBACK

NO.	FIELD NAME	TYPE	CONSTRAINTS	DESCRIPTION
1	Feedback_Id	Int(5)	Primary Key	Auto Increment ID of Feedback Table
2	User_Id	Int(5)	Foreign Key	Id of Particular User
3	Feedback_Date	date	Not Null	Date of feedback sent
4	Feedback_Description	Varchar(50)	Not Null	Feedback written by the user

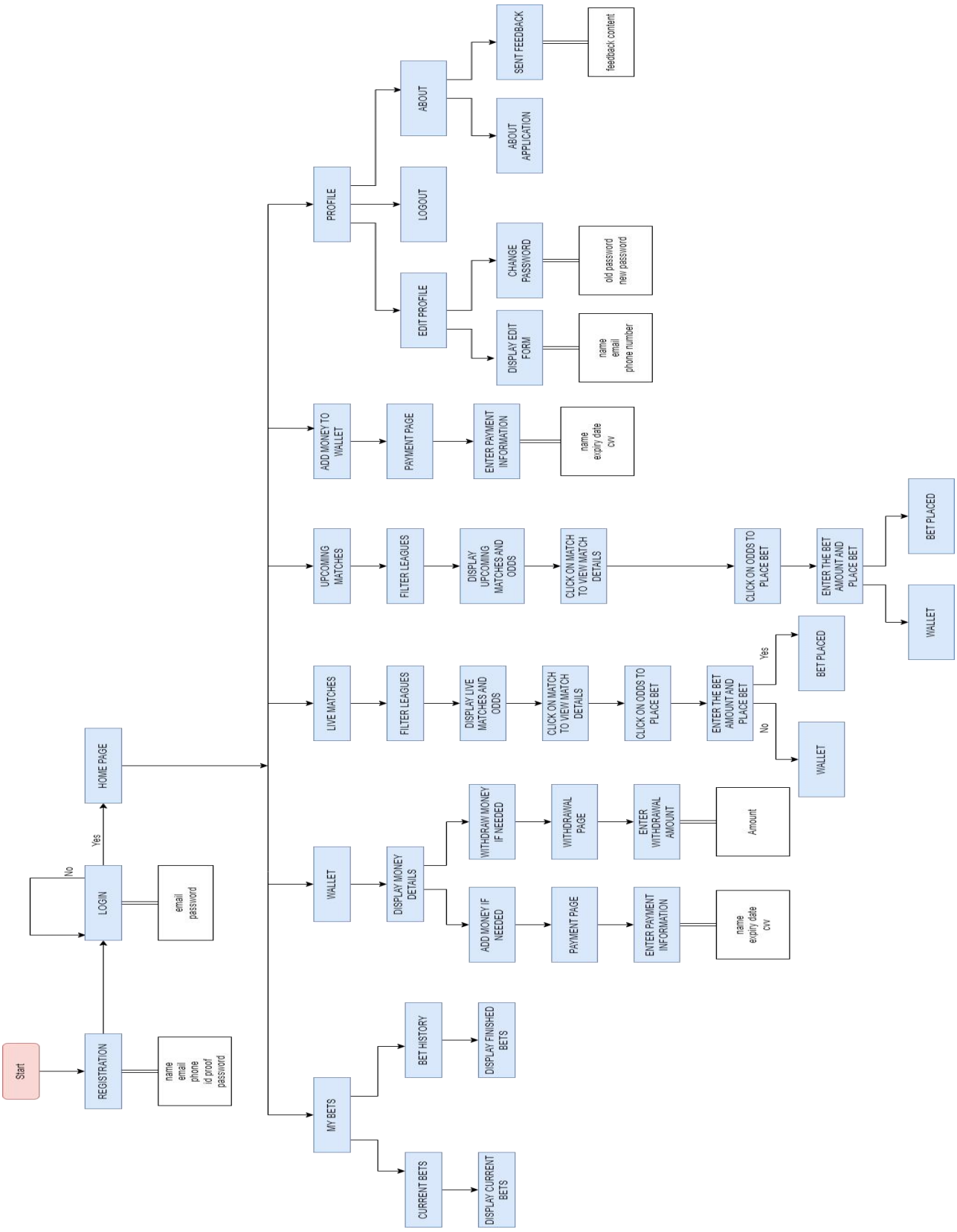
WALLET

NO.	FIELD NAME	TYPE	CONSTRAINTS	DESCRIPTION
1	Wallet_Id	Int(5)	Primary Key	Auto Increment ID of Wallet Table
2	User_Id	Int(5)	Foreign Key	Id of Particular User
3	Current_Balance	float	Not Null	Current balance in the wallet
4	Created_ Date	date	Not Null	Date created
5	Updated_Date	date	Not Null	Last Updated date of wallet

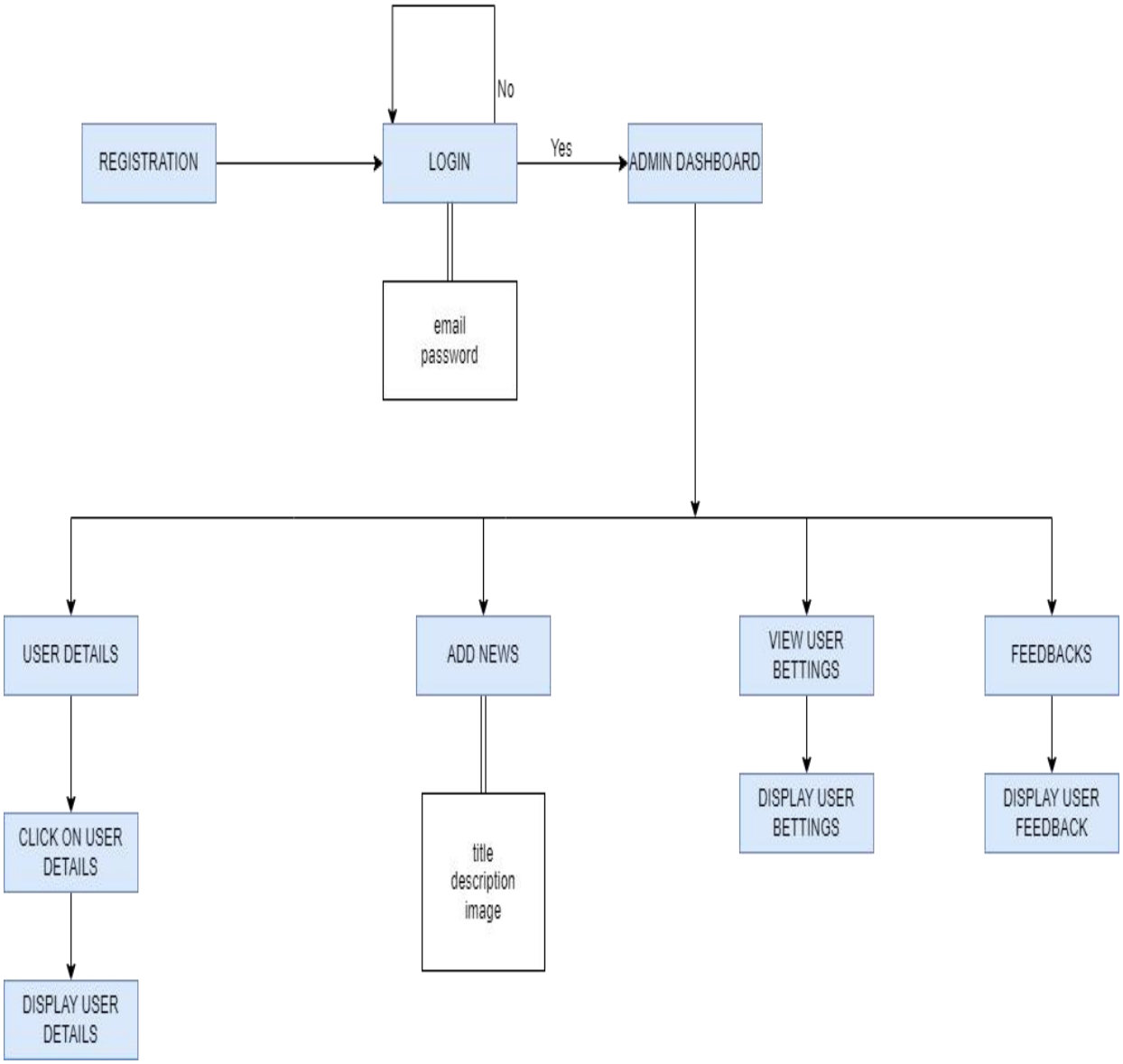
WALLET TRANSACTIONS

NO.	FIELD NAME	TYPE	CONSTRAINTS	DESCRIPTION
1	Transaction_Id	Int(5)	Primary Key	Auto Increment ID of Transaction Table
2	Wallet_Id	Int(5)	Foreign Key	Id of Particular Wallet
3	User_id	float	Not Null	Id of Particulr User
4	Transaction_Type	date	Not Null	Transaction Type such as debit or credit
5	Created_date	date	Not Null	Transaction Created
6	Updated_date	date	Not Null	Transaction updated
7	Transaction_status	Varchar(20)	Not Null	Status of the particular transaction

2.1 USER FLOW DIAGRAM

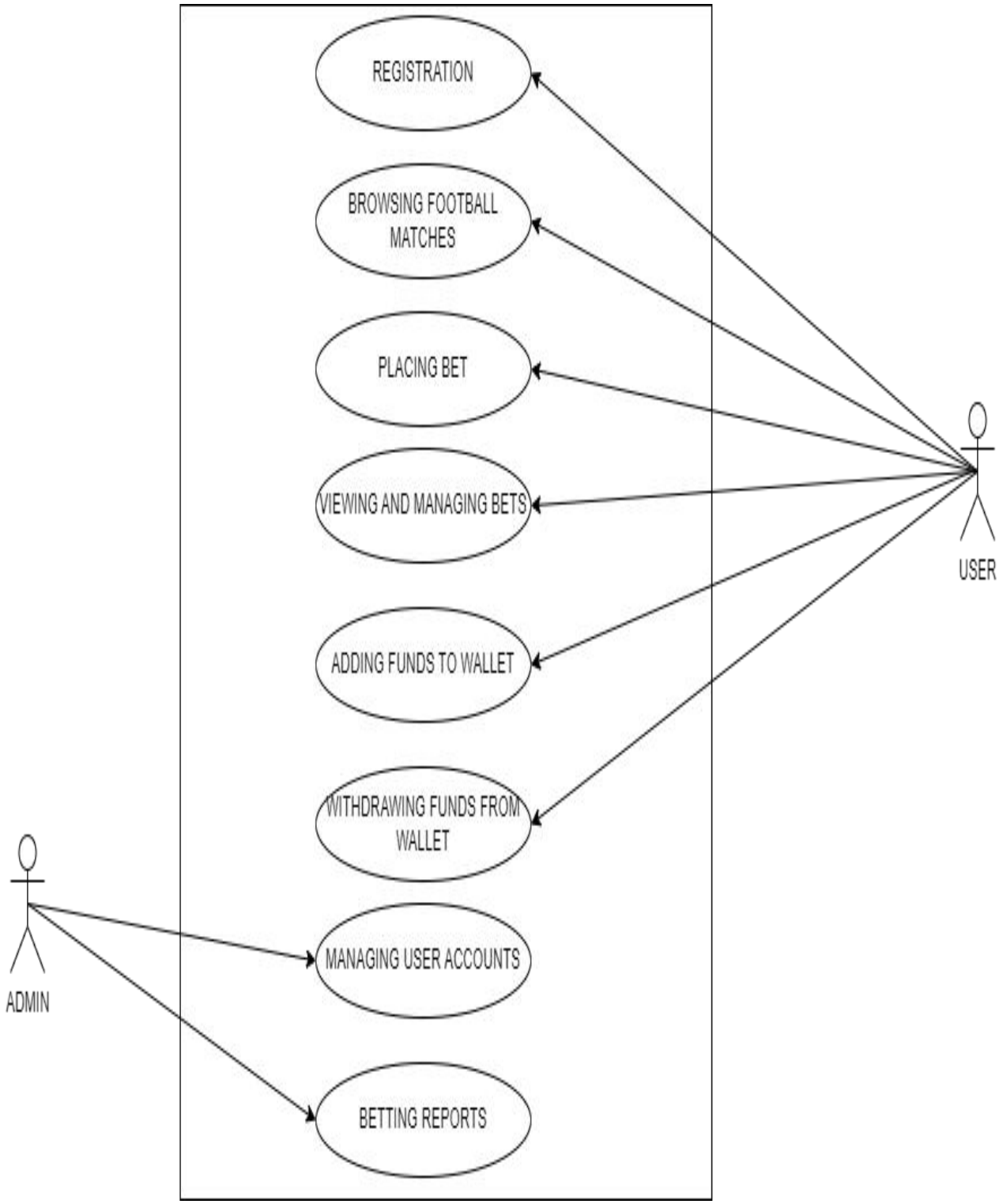


2.2 ADMIN FLOW DIAGRAM



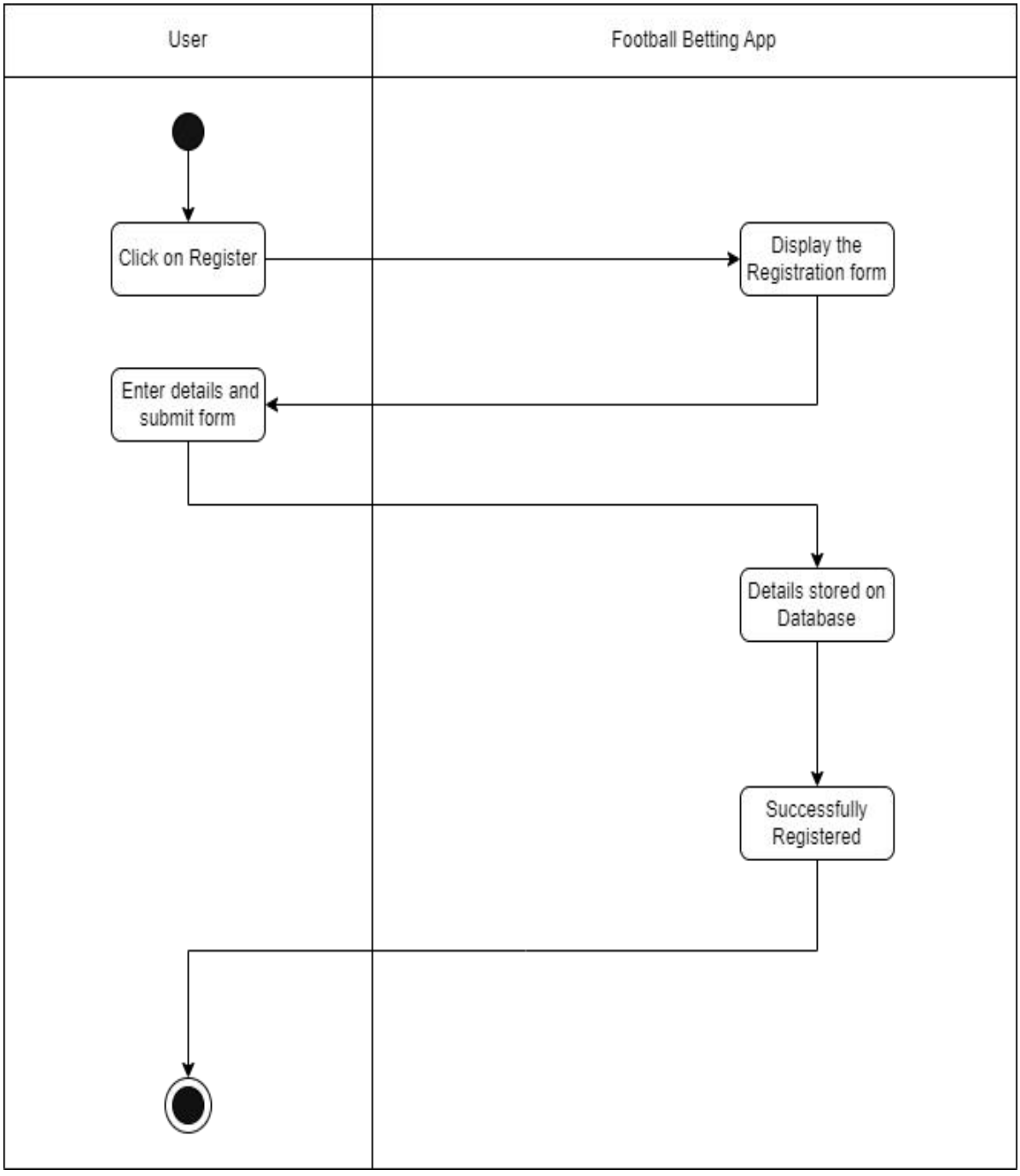
2.3 Object Oriented Design-UML Diagrams

2.3.1 Use Case diagram

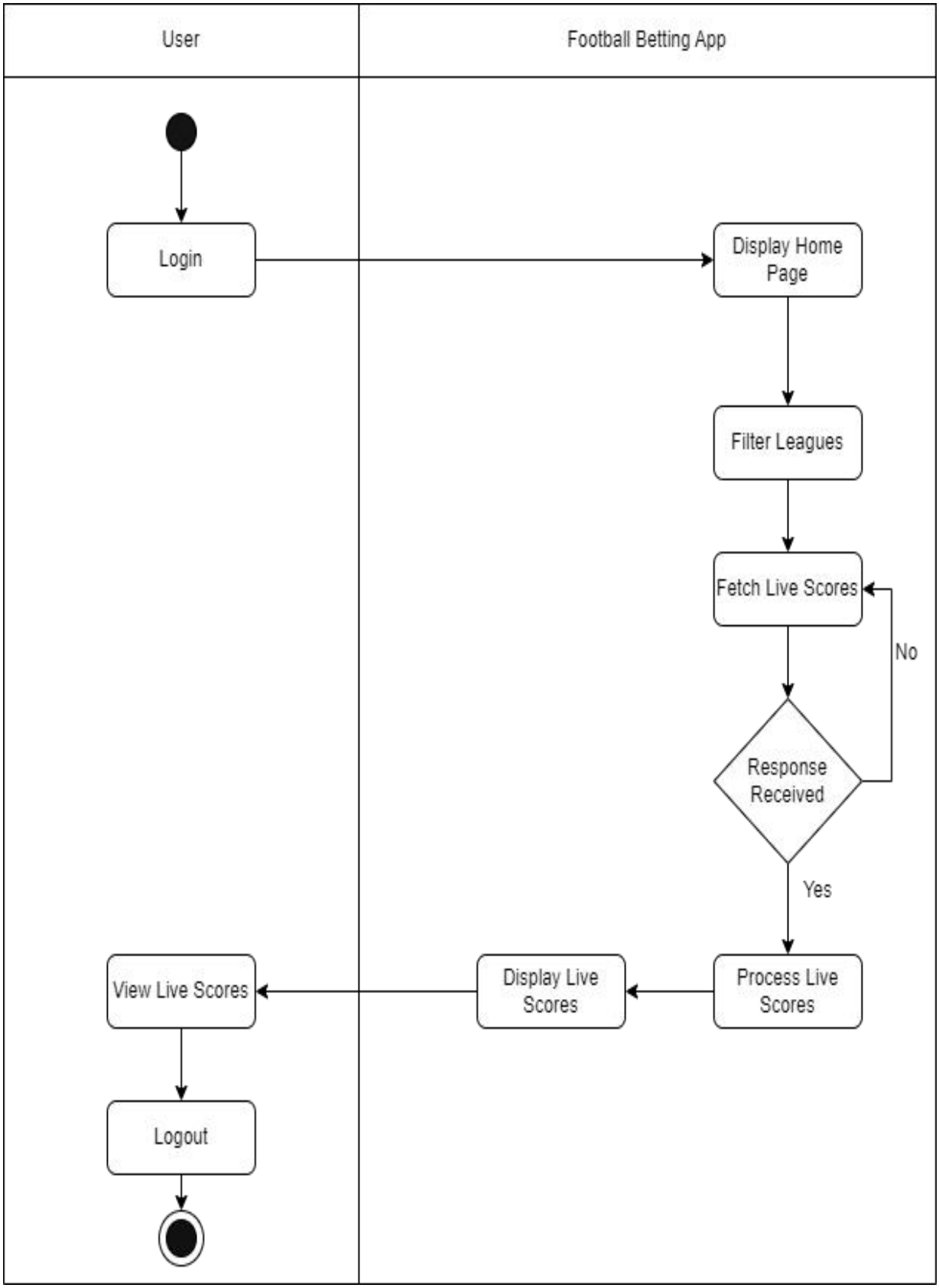


2.3.2 Activity diagram

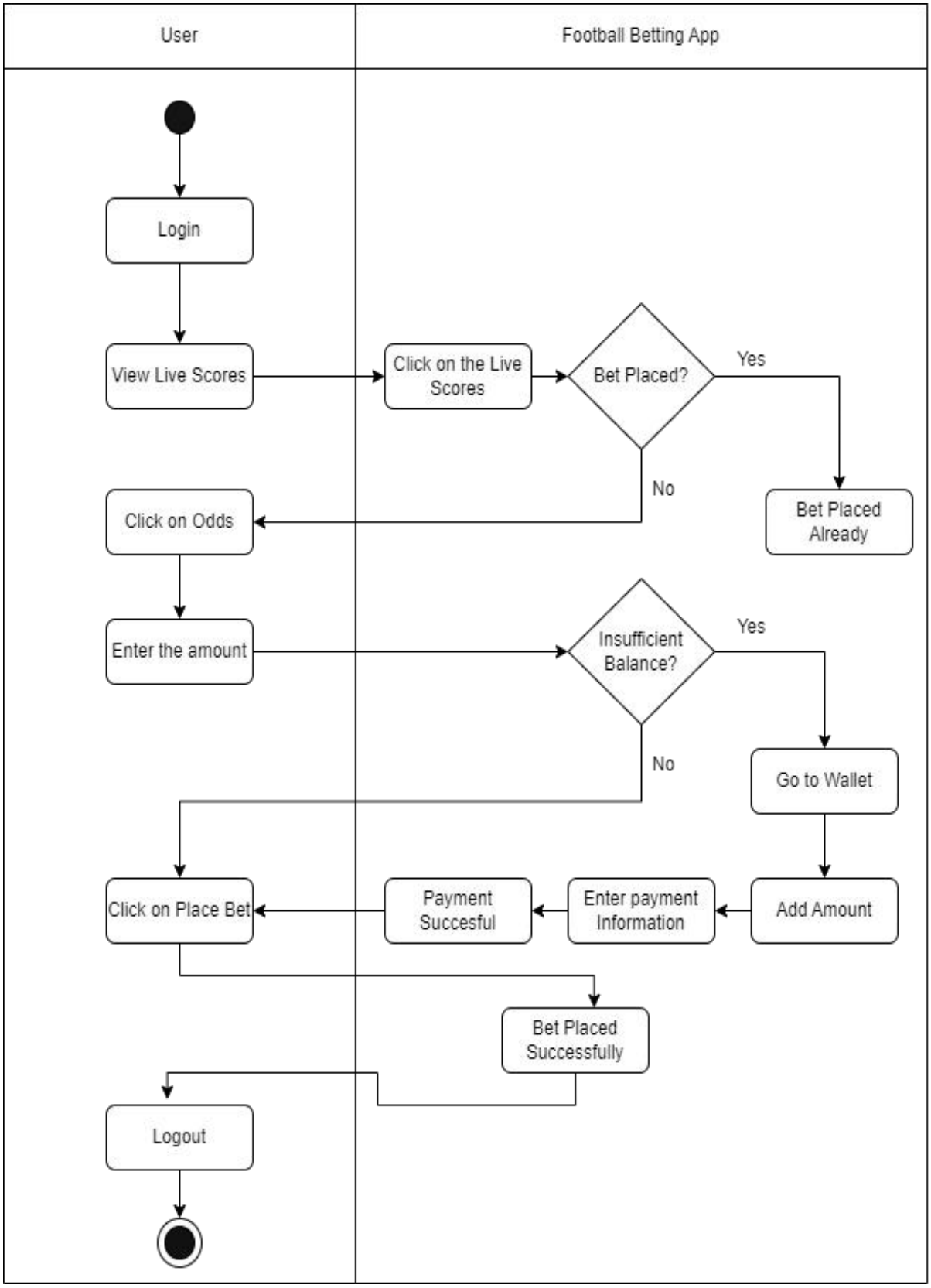
Registration



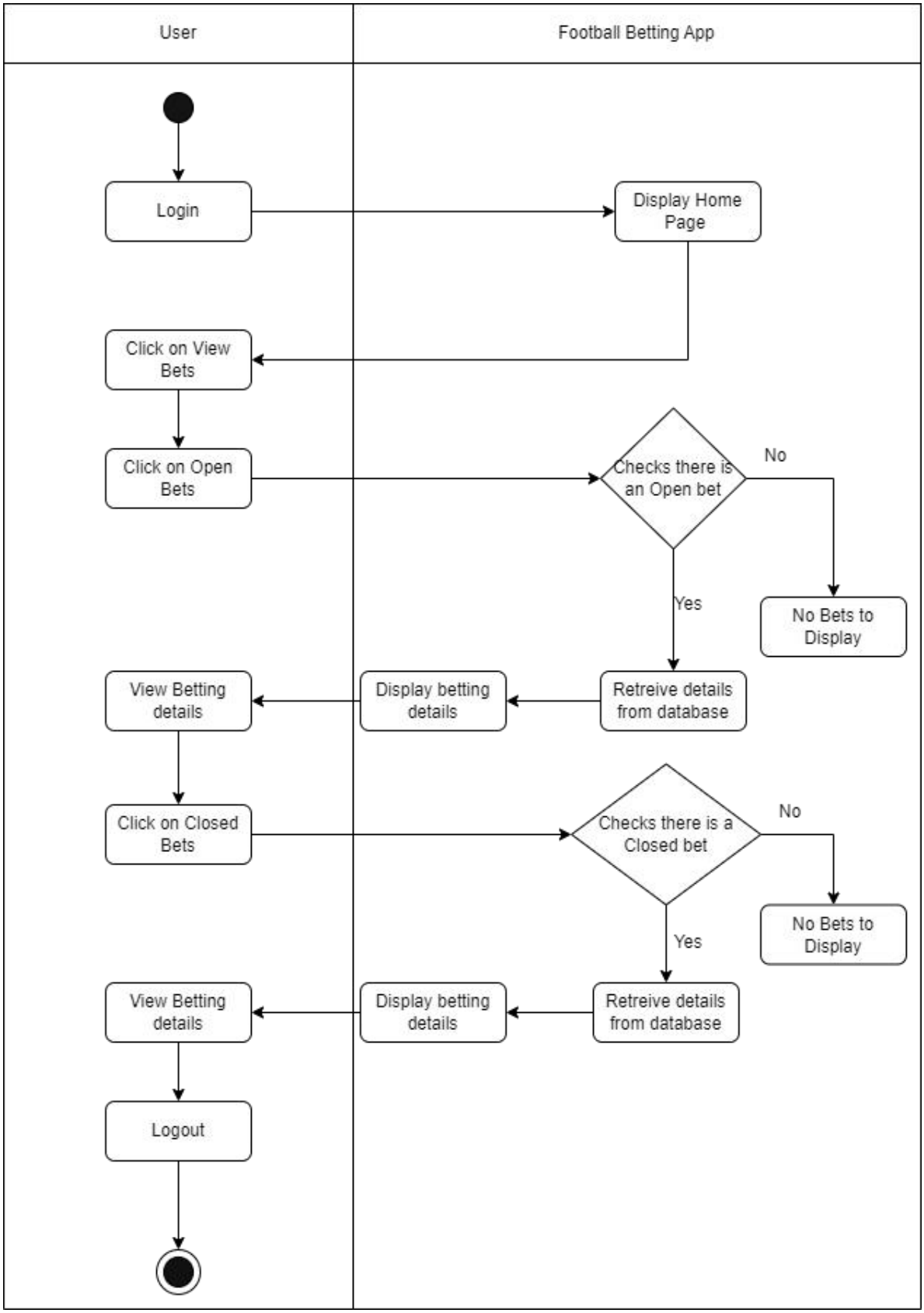
Browsing football matches



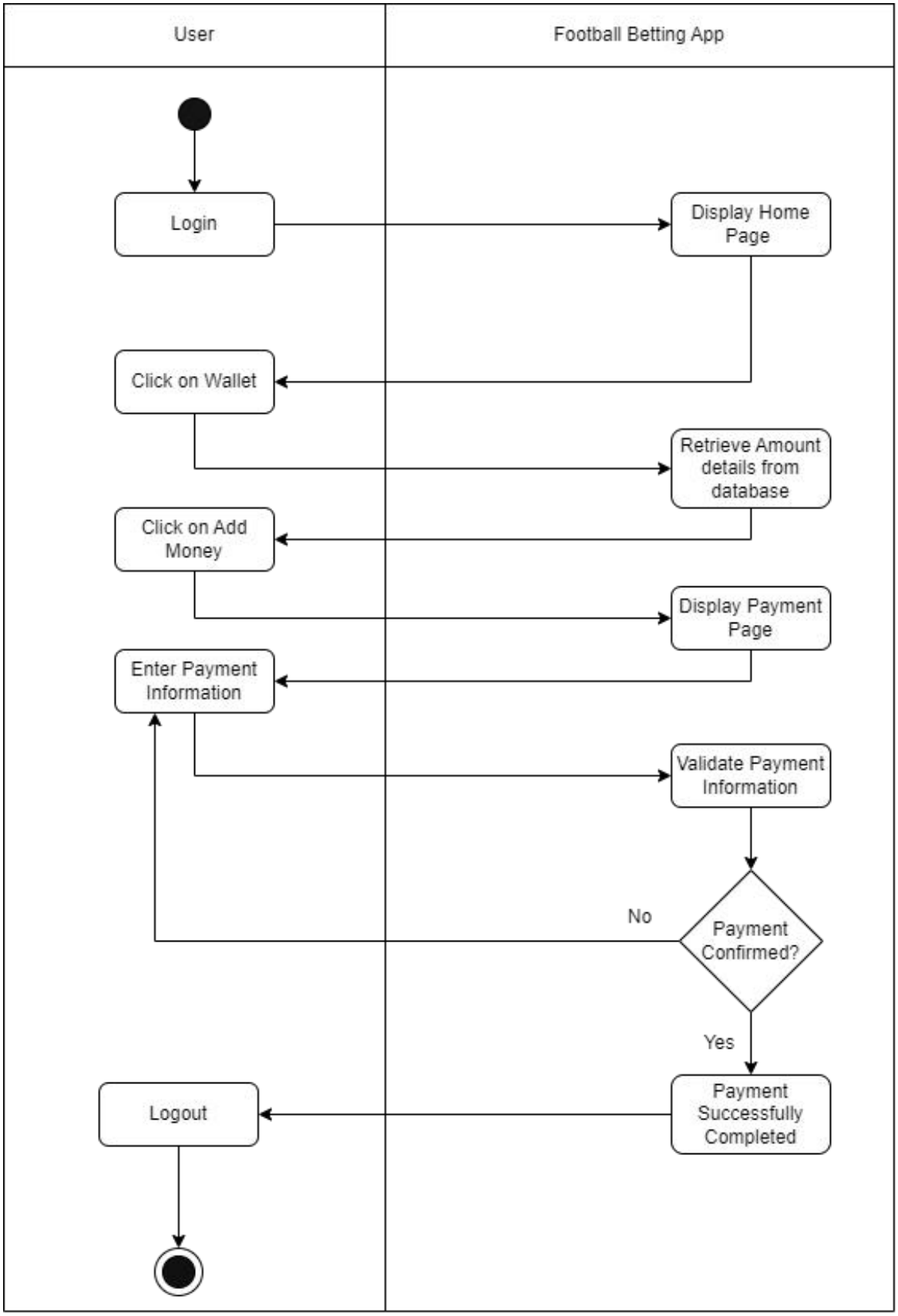
Placing bet


User
Football Betting App
Login
View Live Scores
Click on the Live Scores
Bet Placed?
Yes
No
Bet Placed Already
Click on Odds
Enter the amount
Insufficient Balance?
Yes
No
Go to Wallet
Add Amount
Enter payment Information
Payment Succesful
Click on Place Bet
Bet Placed Successfully
Logout

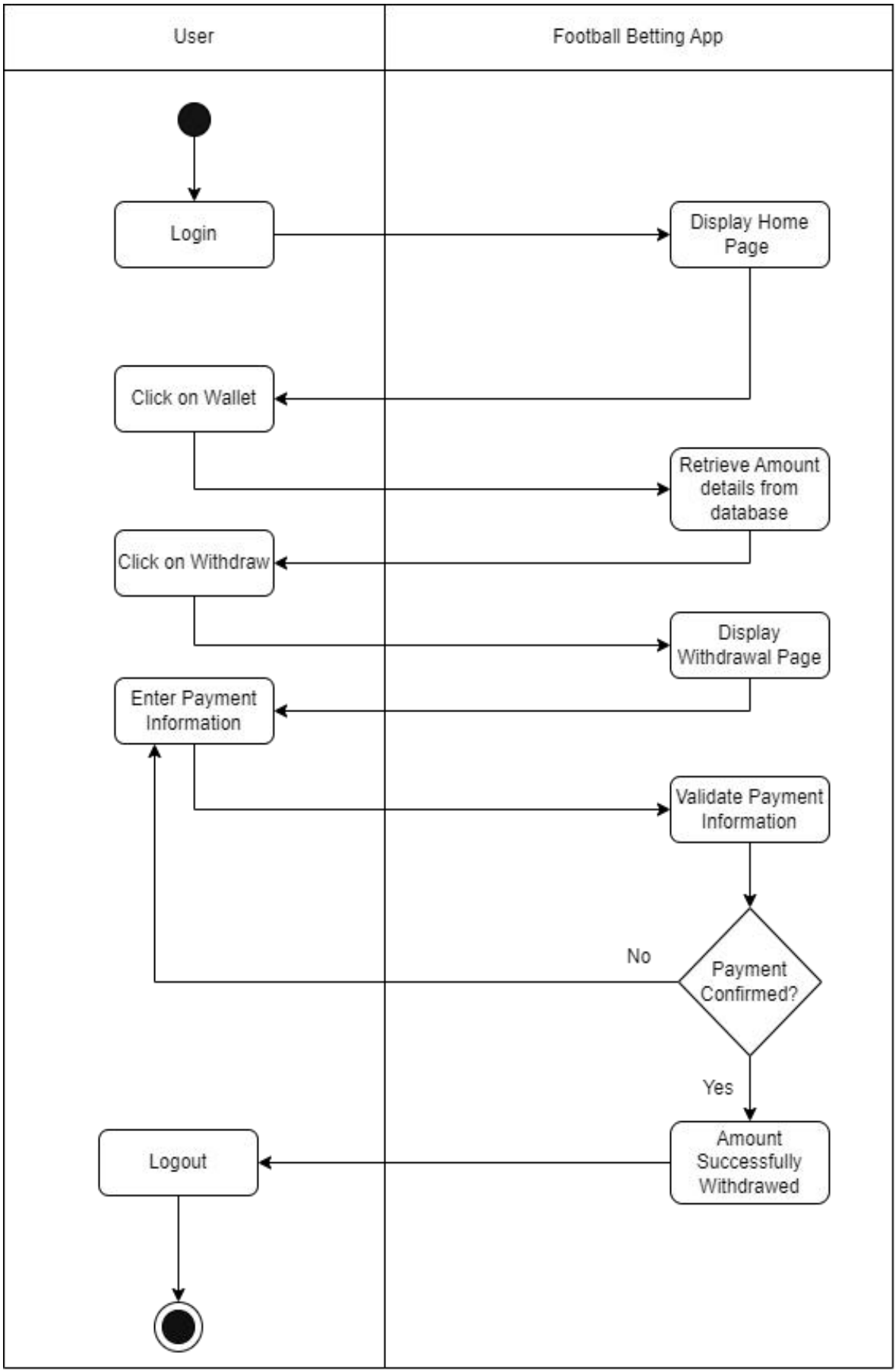
Viewing and Managing Bet



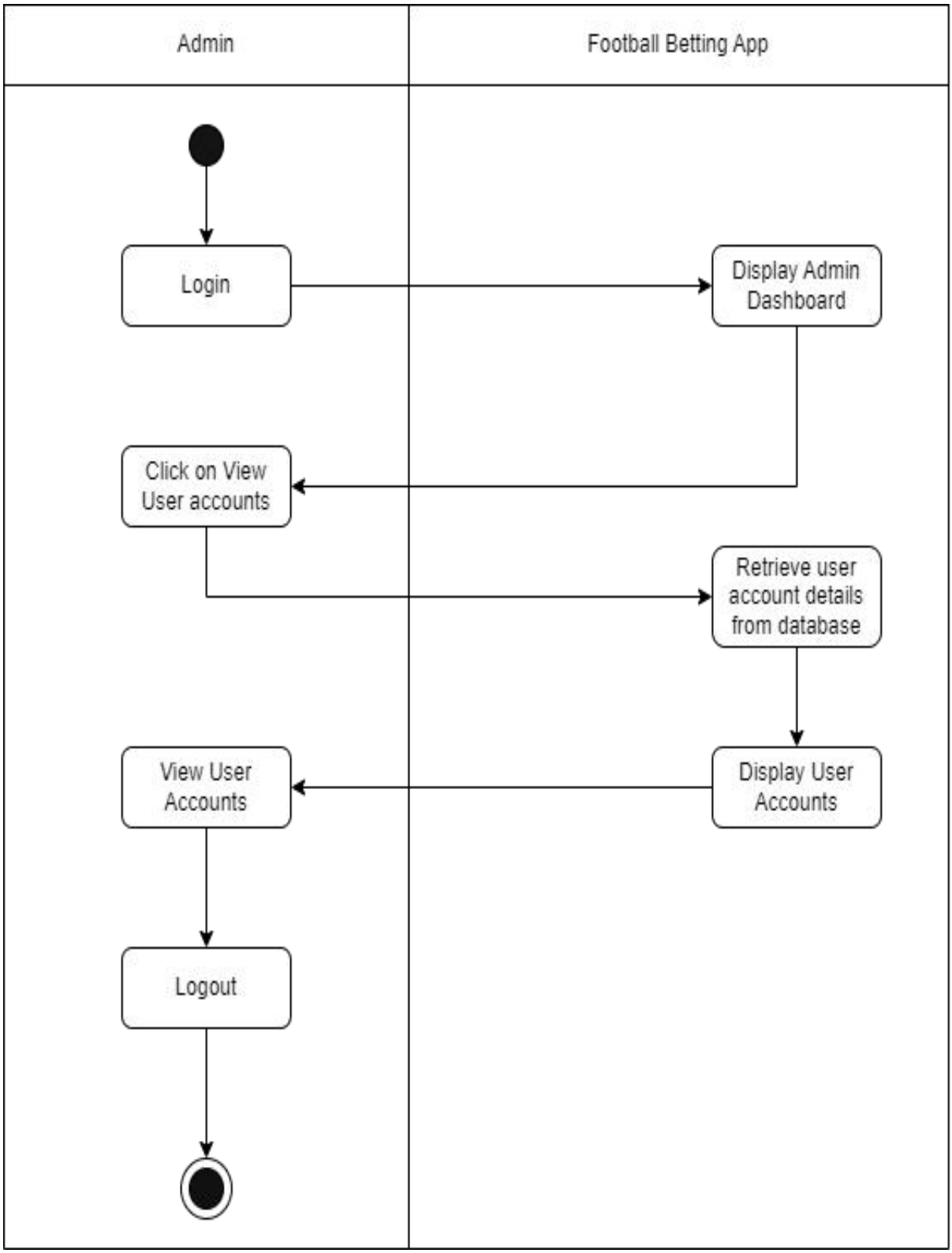
Add Funds to Wallet



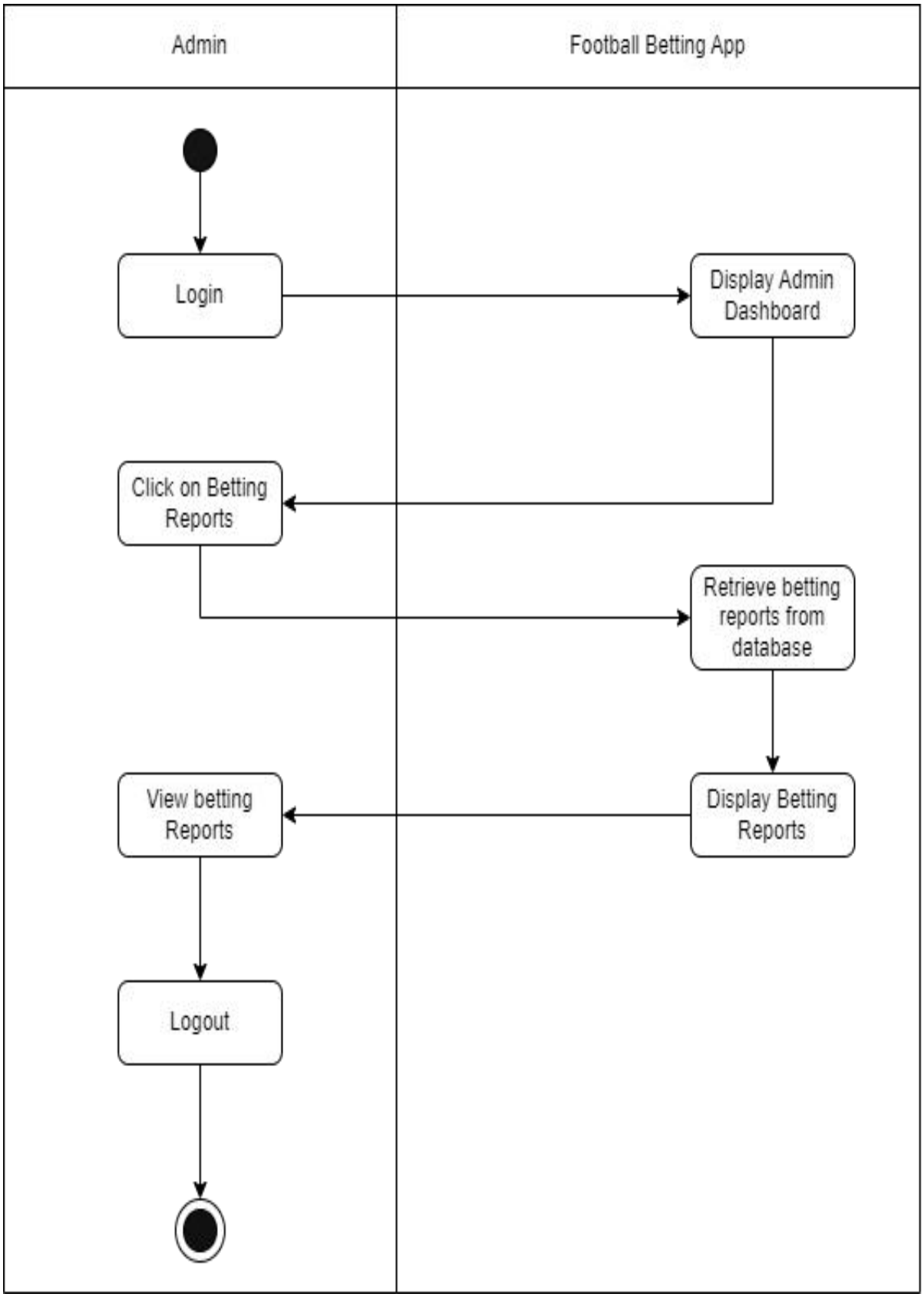
Withdrawing Funds from wallet



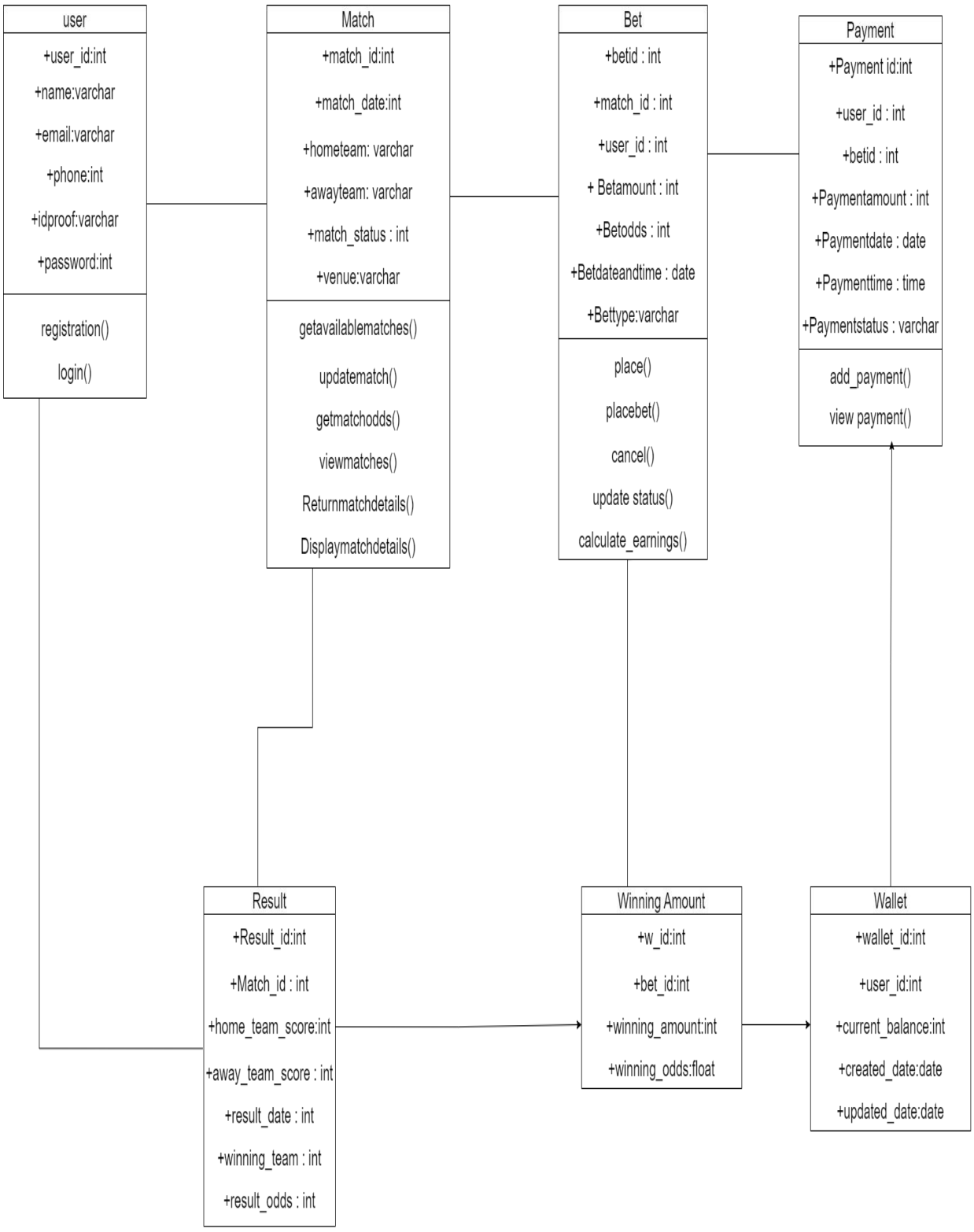
Managing user accounts



Betting reports



2.3.3 Class diagram



2.3.4 Sequence diagram