Bilkent University



Department of Computer Engineering

CS353 TERM PROJECT

Design Report

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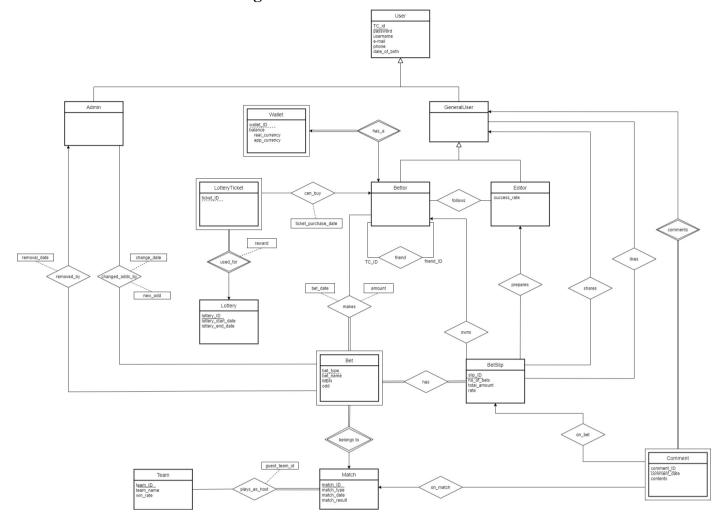
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1. Revised ER Diagram



2. Relations

All relations are in 3NF format.

- User (<u>TC_id</u>, password, username, email, phone, date_of_birth)
 - o Candidate Keys: TC_id, username, email, phone
 - o Primary Key: TC_id
 - Dependencies:
 - TC id \rightarrow password, username, email, phone, date of birth
 - username → TC id, password, email, phone, date of birth
 - email → TC id, password, username, phone, date of birth
 - phone \rightarrow TC id, password, username, email, date of birth
 - o Table Creation:

CREATE TABLE User (

TC_id INT NOT NULL, password VARCHAR(20) NOT NULL, username VARCHAR(30) NOT NULL, email VARCHAR(100) NOT NULL, phone INT NOT NULL,

date_of_birth **DATE NOT NULL PRIMARY KEY** (TC_id))

- GeneralUser (TC id)
 - o Candidate Keys: TC_id
 - o Primary Key: TC_id
 - o Foreign Keys: TC_id to User Relation

CREATE TABLE GeneralUser (

TC_id INT NOT NULL,

PRIMARY KEY (TC_id),

FOREIGN KEY (TC_id) REFERENCES User (TC_id))

- Admin (TC_id)
 - o Candidate Keys: TC_id
 - o Primary Key: TC_id
 - o Foreign Keys: TC_id to User Relation

CREATE TABLE Admin (

TC id INT NOT NULL,

PRIMARY KEY (TC id),

FOREIGN KEY (TC_id) REFERENCES User (TC_id))

- Bettor (TC_id)
 - o Candidate Keys: TC_id
 - o Primary Key: TC_id
 - o Foreign Keys: TC_id to GeneralUser Relation

CREATE TABLE Bettor (

TC_id INT NOT NULL,

PRIMARY KEY (TC_id),

FOREIGN KEY (TC_id) REFERENCES GeneralUser (TC_id))

- Editor (TC_id, success_rate)
 - o Candidate Keys: TC_id
 - o Primary Key: TC_id
 - o Foreign Keys: TC_id to GeneralUser Relation
 - o Dependencies:
 - TC id \rightarrow success_rate

CREATE TABLE Editor (

TC_id INT NOT NULL,

success_rate FLOAT,

PRIMARY KEY (TC_id),

FOREIGN KEY (TC_id) REFERENCES GeneralUser (TC_id))

- Wallet (<u>TC_id</u>, wallet_id, real_currency, app_currency)
 - o Candidate Keys: TC_id, wallet_id
 - o Primary Key: TC_id
 - o Foreign Keys: TC_id to Bettor Relation
 - o Dependencies:

TC_id, wallet_id → wallet id, real_currency, app_currency

CREATE TABLE Wallet (

TC_id INT NOT NULL,

wallet_id INT NOT NULL,

real currency FLOAT,

app_currency FLOAT, PRIMARY KEY (TC_id),

FOREIGN KEY (TC_id) REFERENCES Bettor (TC_id))

- Match (match_id, match_type, match_date, match_result)
 - o Candidate Keys: match_id
 - o Primary Key: match_id
 - o Dependencies:
 - match id → match type, match date, match_result

CREATE TABLE Match (

match id INT NOT NULL,

match_type VARCHAR(20) NOT NULL,

match_date DATE NOT NULL,

match_result VARCHAR(20)

PRIMARY KEY (match _id))

- Team (<u>team_id</u>, team_name, win_rate)
 - o Candidate Keys: team_id, team_name
 - o Primary Key: team id
 - o Dependencies:
 - team id → team name, win rate
 - team name → team id, win rate

CREATE TABLE Team (

team_id INT NOT NULL,

team_name VARCHAR(30 NOT NULL),

win_rate FLOAT,

PRIMARY KEY (team _id))

- TeamsPlaying (host_id, guest_id, <u>match_id</u>)
 - o Candidate Keys: match_id
 - o Primary Key: match id
 - Foreign Keys: match_id to Match, host_id to team_id in Team, guest_id to team_id in Team
 - Dependencies:
 - match_id → host_id, guest_id

CREATE TABLE TeamsPlaying (

host_id INT NOT NULL,

guest_id INT NOT NULL,

match_id INT NOT NULL,

PRIMARY KEY (match_id)

FOREIGN KEY (host _id) REFERENCES Team (team _id)

FOREIGN KEY (guest _id) REFERENCES Team (team _id)

FOREIGN KEY (match _id) REFERENCES Match (match _id))

- BetSlip (slip_id, no_of_bets, total_amount, rate)
 - o Candidate Keys: slip_id
 - o Primary Key: slip_id
 - o Foreign Keys: editor_id to TC_id in Editor, bettor_id to TC_id in Bettor
 - o Dependencies:
 - slip id → no_of_bets, total_amount, rate

CREATE TABLE BetSlip (

slip_id INT NOT NULL,

no_of_bets INT,

rate INT,

PRIMARY KEY (slip_id))

- EditorPreparesSlip (<u>slip_id</u>, editor_id)
 - o Candidate Keys: slip_id
 - o Primary Key: slip id
 - o Foreign Keys: slip_id to BetSlip, editor_id to TC_id in Editor
 - o Dependencies:
 - slip id \rightarrow editor id

CREATE TABLE EditorPreparesSlip (

slip_id INT NOT NULL,

editor id INT NOT NULL,

PRIMARY KEY (slip_id),

FOREIGN KEY (slip _id) REFERENCES Slip (slip _id)

FOREIGN KEY (editor _id) REFERENCES Editor (TC _id))

- Bet (<u>match_id</u>, <u>bet_type</u>, bet_name, MBN, odds)
 - o Candidate Keys: (match_id, bet_type), (match_id, MBN, odds)
 - o *Primary Key:* (match_id, bet_type)
 - o Foreign Keys: match_id to Match
 - o Dependencies:
 - match_id, bet_type → bet_name, MBN, odds
 - match id, MBN, odds \rightarrow bet type, bet name

CREATE TABLE Bet(

match_id INT NOT NULL,

bet_type VARCHAR(20) NOT NULL,

bet name VARCHAR(20),

MBN INT NOT NULL,

odds FLOAT NOT NULL,

PRIMARY KEY (match_id, bet_type),

FOREIGN KEY (match _id) REFERENCES Match (match _id))

- SlipHasBet (slip_id, match_id, bet_type)
 - Candidate Keys: (slip_id, match_id, bet_type)
 - Primary Key: (slip_id, match_id, bet_type)

o Foreign Keys: slip_id to BetSlip, (match_id, bet_type) to Bet

CREATE TABLE SlipHasBet (

slip_id INT NOT NULL,

match_id INT NOT NULL,

bet_type VARCHAR(20) NOT NULL,

PRIMARY KEY (slip_id, match_id, bet_type),

FOREIGN KEY (match_id, bet_type) **REFERENCES** Bet (match_id, bet_type)

FOREIGN KEY (slip _id) REFERENCES Slip (slip _id)

FOREIGN KEY (match _id) REFERENCES Match (match _id))

- BettorOwnsSlip (bettor_id, slip_id)
 - o Candidate Keys: slip_id
 - o Primary Key: slip id
 - o Foreign Keys: slip_id to BetSlip, bettor_id to TC_id in Bettor
 - o Dependencies:
 - slip id \rightarrow bettor id

CREATE TABLE BettorOwnsSlip (

bettor_id INT NOT NULL,

slip id INT NOT NULL,

PRIMARY KEY (slip_id),

FOREIGN KEY (slip _id) REFERENCES Slip (slip _id)

FOREIGN KEY (bettor _id) REFERENCES Bettor (TC _id))

- BettorMakesBet (<u>bettor_id</u>, <u>match_id</u>, <u>bet_type</u>, <u>bet_date</u>, amount)
 - Candidate Keys: (bettor_id, match_id, bet_type)
 - Primary Key: (bettor_id, match_id, bet_type)
 - o Foreign Keys: bettor_id to TC_id in Bettor, (match_id, bet_type) to Bet
 - o Dependencies:
 - bettor id, match id, bet type \rightarrow bet date, amount

CREATE TABLE BettorMakesBet (

bettor id INT NOT NULL,

match id INT NOT NULL,

bet_type VARCHAR(20) NOT NULL,

bet_date **DATE NOT NULL**,

amount FLOAT,

PRIMARY KEY (bettor_id, match_id, bet_type),

FOREIGN KEY (bettor id) REFERENCES Bettor (TC id),

FOREIGN KEY (match _id) REFERENCES Match (match _id),

FOREIGN KEY (match_id, bet_type) **REFERENCES** Bet (match_id, bet_type))

- BettorFollowsEditor (<u>bettor_id</u>, <u>editor_id</u>)
 - o Candidate Keys: (bettor_id, editor_id)
 - o *Primary Key:* (bettor_id, editor_id)
 - o Foreign Keys: bettor_id to TC_id in Bettor, editor_id to TC_id in Editor

CREATE TABLE BettorFollowsEditor (

bettor_id INT NOT NULL,

editor id INT NOT NULL,

PRIMARY KEY(bettor_id, editor_id),

FOREIGN KEY (bettor id) REFERENCES Bettor (TC id),

FOREIGN KEY (editor _id) REFERENCES Editor (editor _id))

- Lottery (<u>lottery_id</u>, lottery_start_date, lottery_end_date)
 - o Candidate Keys: lottery_id
 - o Primary Key: lottery_id
 - o Dependencies:
 - lottery id → lottery start date, lottery end date
 - lottery start date → lottery id, lottery end date
 - lottery end date → lottery id, lottery start date

CREATE TABLE Lottery (

lottery_id INT NOT NULL,

lottery_start_date DATE NOT NULL,

lottery_end_date DATE NOT NULL,

PRIMARY KEY(lottery_id))

- LotteryTicket (<u>ticket_id</u>, lottery_id, reward)
 - o Candidate Keys: ticket_id
 - o Primary Key: ticket_id
 - o Foreign Keys: lottery _id to Lottery
 - o Dependencies:
 - ticket id → lottery id, reward

CREATE TABLE LotteryTicket (

ticket id INT NOT NULL.

lottery_id INT NOT NULL,

reward FLOAT,

PRIMARY KEY(ticket id)

FOREIGN KEY (lottery _id) REFERENCES Lottery (lottery _id))

- BettorBoughtTicket (<u>ticket_id</u>, bettor_id, ticket_purchase_date)
 - o Candidate Keys: ticket_id
 - o Primary Key: ticket_id
 - o Foreign Keys: bettor _id to TC_id in Bettor
 - o Dependencies:
 - ticket_id → bettor_id, ticket_purchase_date

CREATE TABLE BettorBoughtTicket (

ticket id INT NOT NULL,

bettor_id INT NOT NULL,

ticket_purchase_date **DATE**,

PRIMARY KEY(ticket_id)

FOREIGN KEY (ticket _id) REFERENCES LotteryTicket (ticket _id),

FOREIGN KEY (bettor _id) REFERENCES Bettor (TC _id))

- Comment (comment id, TC id, comment date, contents)
 - Candidate Keys: comment_id
 - o Primary Key: comment_id
 - o Dependencies:
 - comment $id \rightarrow TC$ id, comment date, contents

CREATE TABLE Comment (

comment id INT NOT NULL.

TC_id INT NOT NULL,

comment_date DATE,

contents VARCHAR(500),

PRIMARY KEY(comment_id)

FOREIGN KEY (TC id) REFERENCES General User (TC id))

- CommentOnSlip (comment_id, slip_id)
 - o Candidate Keys: (comment_id, slip_id)
 - o *Primary Key:* (comment_id, slip_id)
 - o Foreign Keys: comment_id to Comment, slip_id to BetSlip

CREATE TABLE CommentOnSlip (

comment_id INT NOT NULL,

slip_id INT NOT NULL,

PRIMARY KEY(comment id, slip id),

FOREIGN KEY (comment_id) REFERENCES Comment (comment _id),

FOREIGN KEY (slip_id) REFERENCES BetSlip (slip_id))

- CommentOnMatch (comment_id, match_id)
 - Candidate Keys: (comment_id, match_id)
 - Primary Key: (comment_id, match_id)
 - o Foreign Keys: comment_id to Comment, match_id to Match

CREATE TABLE CommentOnSlip (

comment id INT NOT NULL,

match_id INT NOT NULL,

PRIMARY KEY(comment_id, match_id),

FOREIGN KEY (comment_id) REFERENCES Comment (comment_id),

FOREIGN KEY (match_id) REFERENCES Match (match_id))

- Friend (TC id, friend id)
 - o Candidate Keys: (TC_id, friend_id)
 - o Primary Key: (TC_id, friend_id)
 - o Foreign Keys: TC_id to Bettor, friend_id to TC_id in Bettor

CREATE TABLE Friend (

TC_id INT NOT NULL,

friend id INT NOT NULL,

PRIMARY KEY(TC_id, friend_id),

FOREIGN KEY (TC_id) REFERENCES Bettor (TC_id),

FOREIGN KEY (friend _id) REFERENCES Bettor (TC _id))

- UserLikesSlip (<u>TC_id</u>, <u>slip_id</u>)
 - o Candidate Keys: (TC_id, slip_id)
 - o *Primary Key:* (TC_id, slip_id)
 - o Foreign Keys: TC_id to GeneralUser, slip_id to BetSlip

CREATE TABLE UserLikesSlip (

TC id INT NOT NULL,

slip_id INT NOT NULL,

PRIMARY KEY(TC_id, slip_id),

FOREIGN KEY (TC_id) REFERENCES GeneralUser (TC_id),

FOREIGN KEY (slip_id) REFERENCES BetSlip (slip_id))

- UserSharesSlip (TC_id, slip_id)
 - o Candidate Keys: (TC_id, slip_id)
 - o Primary Key: (TC_id, slip_id)
 - o Foreign Keys: TC_id to GeneralUser, slip_id to BetSlip

CREATE TABLE UserSharesSlip (

TC id INT NOT NULL,

slip_id INT NOT NULL,

PRIMARY KEY(TC_id, slip_id),

FOREIGN KEY (TC_id) REFERENCES GeneralUser (TC_id),

FOREIGN KEY (slip_id) REFERENCES BetSlip (slip_id))

- BetRemovedByAdmin (<u>TC_id</u>, <u>match_id</u>, <u>bet_type</u>, removal_date)
 - o Candidate Keys: (TC_id, match_id, bet_type)
 - o *Primary Key:* (bettor_id, match_id, bet_type)
 - o Foreign Keys: TC_id to Admin, (match_id, bet_type) to Bet
 - o Dependencies:
 - TC_id, match_id, bet_type → removal_date

CREATE TABLE BetRemovedByAdmin (

TC_id INT NOT NULL,

match_id INT NOT NULL,

bet_type VARCHAR(20) NOT NULL,

removal_date **DATE**,

PRIMARY KEY(TC_id, match_id, bet_type,

FOREIGN KEY (TC_id) REFERENCES Admin (TC_id),

FOREIGN KEY (match_id, bet_type) REFERENCES Bet (match_id,

bet_type))

- BetChangedByAdmin (<u>TC_id, match_id, bet_type</u>, change_date, new_odd)
 - o Candidate Keys: (TC_id, match_id, bet_type)
 - o *Primary Key*: (bettor id, match id, bet type)
 - o Foreign Keys: TC_id to Admin, (match_id, bet_type) to Bet
 - o Dependencies:
 - TC id, match id, bet type \rightarrow change date, new odd

CREATE TABLE BetRemovedByAdmin (

TC_id INT NOT NULL,
match_id INT NOT NULL,
bet_type VARCHAR(20) NOT NULL,
change_date DATE,
new_odd FLOAT,
PRIMARY KEY(TC_id, match_id, bet_type,
FOREIGN KEY (TC_id) REFERENCES Admin (TC_id),
FOREIGN KEY (match_id, bet_type) REFERENCES Bet (match_id, bet_type))

3. UI Design

3.1 Registration Page



Figure 1: Registration Page as Bettor

• Registration as Bettor

INSERT INTO User (TC_id, password, username, email, phone, date_of_birth) **VALUES**('id', 'pw', 'un', 'email_address', 'pn', 'dob');

INSERT INTO Bettor (TC_id)
VALUES('id');

3.2 Login Page



Figure 2: Login Page

• Login Info Check: Returns NULL if there is no user with the given information.

chosen_username = username that is given by the user.

chosen_password = password that is given by the user

SELECT * **FROM** User **WHERE** username = 'chosen_username' **AND** password = 'chosen_password'

• *Find the User Type:* Loops through all the user types with the given user information and finds the user type of the user with the given information. The extra information of the user will be stored in the session.

SELECT * **FROM** Bettor **WHERE** username = 'chosen_username'

SELECT * **FROM** Editor **WHERE** username = 'chosen_username'

SELECT * **FROM** Admin **WHERE** username = 'chosen username'

3.3 Match List Page

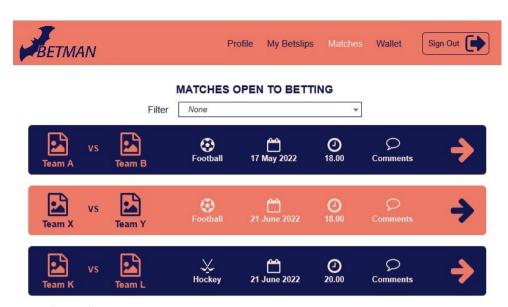


Figure 3: Match List

• *Match List:* It is assumed that there are only 2 teams involved in a match who are called host and guest.

SELECT M.match_id, M.match_type, M.match_date, T1.team_name, T2.team_name
FROM Plays AS P, Match AS M, Team AS T1, Team AS T2
WHERE P.match_id = M.match_id AND P.host_id = T1.team_id
AND P.guest_id = T2.team_id

3.4 Bet List Page

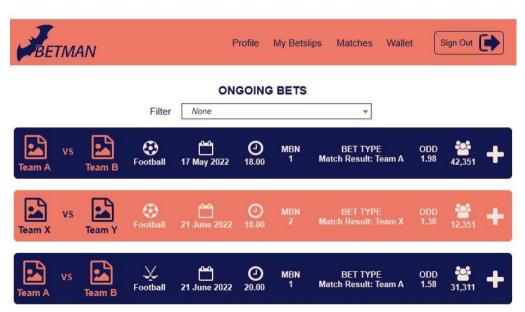


Figure 4: Bet List

• Bet List

WITH

bet_total_bettor_no (match_id, bet_type, bettor_no) **AS**

(SELECT match_id, bet_type, COUNT (bettor_id)

FROM BettorMakesBet

GROUP BY match_id, bet_type),

bet_match_bettor_no (match_id, bet_type, bettor_no) AS

(SELECT match_id, bet_type, COUNT (bettor_id)

FROM BettorMakesBet

GROUP BY match id),

selection_ratio (match_id, bet_type, ratio) AS

(SELECT B1. match_id, B1.bet_type, (B1.better_no / B2.better_no)

FROM bet_total_bettor_no AS B1, bet_ match_bettor_no AS B2

WHERE B1.match_id = B2.match_id)

SELECT match_id, bet_type, bet_name, MBN, odd, ratio

List of Bets According to the Bet Type:

FROM Bet NATURAL JOIN selection ratio

WHERE (match_id, bet_type) NOT IN (SELECT match_id, bet_type FROM BetRemovedByAdmin)

chosen = type of the bet that was chosen from the bet type list by the user.

WITH

bet_total_bettor_no (match_id, bet_type, bettor_no) AS

(SELECT match id, bet type, COUNT (bettor id)

FROM BettorMakesBet

GROUP BY match_id, bet_type),

bet_match_bettor_no (match_id, bet_type, bettor_no) AS

(SELECT match_id, bet_type, COUNT (bettor_id)

FROM BettorMakesBet

GROUP BY match_id),

selection ratio (match id, bet type, ratio) AS

(SELECT B1. match_id, B1.bet_type, (B1.better_no / B2.better_no)

FROM bet_total_bettor_no AS B1, bet_ match_bettor_no AS B2

WHERE B1.match_id = B2.match_id)

SELECT match_id, bet_type, bet_name, MBN, odd, ratio

FROM Bet NATURAL JOIN selection ratio

WHERE bet_type = 'chosen' AND (match_id, bet_type) NOT IN (SELECT match_id,

bet_type FROM BetRemovedByAdmin)

• List of Bets According to the Match Date:

chosen = date of the match that the bet is based on.

WITH

bet_total_bettor_no (match_id, bet_type, bettor_no) **AS**(SELECT match_id, bet_type, COUNT (bettor_id)

FROM BettorMakesBet

GROUP BY match_id, bet_type),

bet match bettor no (match id, bet type, bettor no) AS

(SELECT match_id, bet_type, COUNT (bettor_id)

FROM BettorMakesBet

GROUP BY match id),

selection_ratio (match_id, bet_type, ratio) AS

(SELECT B1. match id, B1.bet type, (B1.better no / B2.better no)

FROM bet_total_bettor_no AS B1, bet_ match_bettor_no AS B2

WHERE B1.match_id = B2.match_id)

SELECT match_id, bet_type, bet_name, MBN, odd, ratio

FROM Bet NATURAL JOIN selection_ratio

WHERE match_date = 'chosen' AND (match_id, bet_type) NOT IN (SELECT match_id, bet_type FROM BetRemovedByAdmin)

• List of Bets According to the Match Type:

chosen = Type of the match that the bet is based on.

WITH

bet total bettor no (match id, bet type, bettor no) AS

(SELECT match_id, bet_type, COUNT (bettor_id)

FROM BettorMakesBet

GROUP BY match id, bet type),

bet_match_bettor_no (match_id, bet_type, bettor_no) AS

(SELECT match_id, bet_type, COUNT (bettor_id)

FROM BettorMakesBet

GROUP BY match_id),

selection_ratio (match_id, bet_type, ratio) AS

(SELECT B1. match_id, B1.bet_type, (B1.better_no / B2.better_no)

FROM bet_total_bettor_no AS B1, bet_ match_bettor_no AS B2

WHERE B1.match_id = B2.match_id)

SELECT match_id, bet_type, bet_name, MBN, odd, ratio

FROM Bet NATURAL JOIN selection ratio

WHERE match_type = 'chosen' AND (match_id, bet_type) NOT IN (SELECT match_id,

bet type **FROM** BetRemovedByAdmin)

3.5 Bet Slip List



Figure 5: Bet Slip List

3.6 Bet Slip

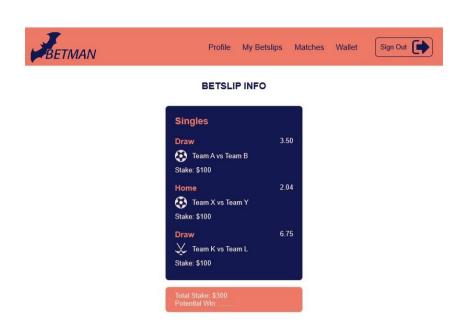


Figure 6: Bet Slip Info

- Add Bet to Bet Slip of the User: The user information would have been saved previously as session. No money will be entered initally
 - chosen_type = ID of the bet that was chosen from the Bet List which will be retrieved from the query above.

chosen_match = ID of the match that was chosen from the Match List. current_slip = id of the slip that will have the new bet.

INSERT INTO SlipHasBet

VALUES ('current_slip', 'chosen_match', 'chosen_type');

INSERT INTO BettorMakesBet

VALUES ('user_id', 'chosen_match', 'chosen_type', 'current date', '0');

UPDATE BetSlip

```
SET no_of_bets = no_of_bets + '1'

WHERE slip_id = 'current slip';
```

SELECT slip_id, bet_name, MBN, bet_type, odd, bet_date

FROM Bet NATURAL JOIN SlipHasBet

WHERE bet_id = 'chosen' AND slip_id = 'current_slip';

• *Place bet amount on the Bet Slip:* User specifies the money that will be placed on the specified bet.

 $chosen_bettor = ID of the bettor$

```
chosen_type = type of the bet
chosen_match = ID of the match the bet is made on
chosen_slip = ID of the current betslip of the bettor
```

```
UPDATE BettorMakesBet
SET amount = 'chosen_amount'
WHERE bet_type = 'chosen_type' AND match_id = 'chosen_match'

UPDATE BetSlip
SET totalAmount = totalAmount + 'chosen_amount'
WHERE slip_id = 'chosen_slip'
```

• Check if the bettor has enough money and MBN is reached. Then, update the wallet after making the bet:

```
chosen_bettor = ID of the bettor that is making the bet.
chosen_slip = ID of the bet slip
```

```
UPDATE Wallet
SET real_currency = real_currency -
    (SELECT totalAmount
    FROM BetSlip
    WHERE slip_id = 'chosen_slip')
WHERE TC_id = chosen_bettor
AND real_currency >=
        (SELECT totalAmount
        FROM BetSlip
        WHERE slip_id = chosen_slip)
AND no_of_bets <=
        (SELECT MAX(MBN)
        FROM SlipHasBet NATURAL JOIN Bet
        WHERE slip_id = 'chosen_slip'
        GROUP BY MBN)</pre>
```

3.7 Bet Slip Info with Comments

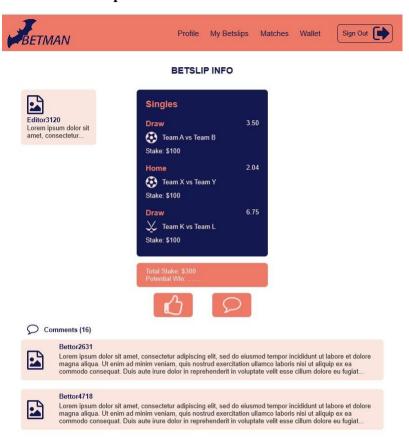


Figure 7: Bet Slip with Comments

• Users comment on and likes their friends' bet slips: The user can only see the slips of their friends and the editors they are following so there is no need for checking while commenting.

cid = Randomly generated comment id.

 $random_content = Content$ of the comment done by user to be retrieved from textbox.

user_id = id of the user in current session.

friend_slip = id of the slip owned by friend.

INSERT INTO comment

VALUES ('cid', 'user id', 'current_date', 'random content');

INSERT INTO CommentOnSlip

SELECT comment_id, 'friend_slip'

FROM comment

WHERE comment_id = 'cid'

INSERT INTO UserLikesSlip

VALUES ('user id', 'friend_slip')

3.8 Match Slip Info with Comments

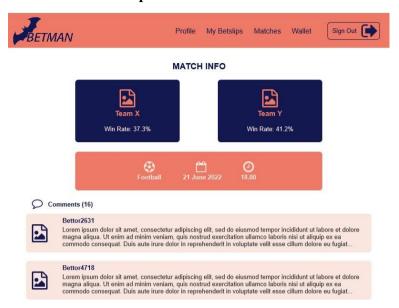


Figure 8: Match Info

3.9 Wallet Page of User

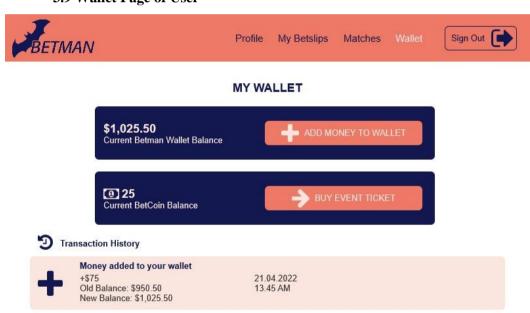


Figure 9: Wallet

3.10 Main Feed

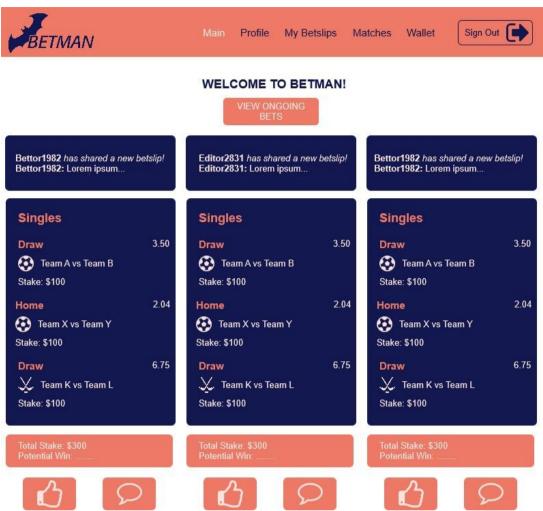


Figure 10: Main Feed

3.11 Bet List from Admin's Point of View

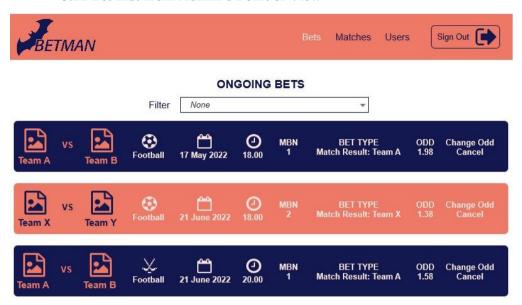


Figure 11: Admin's Bet List

• Change the Odd of a Specific Bet:

chosen_type = type of the chosen bet.
chosen_match = ID of the match of the chosen bet.
chosen_odd = the new odd value of the chosen bet.

UPDATE Bet

SET odd = 'chosen_odd'

WHERE bet_type = 'chosen_type' **AND** match_id = 'chosen_match'

• Cancel a Specific Bet:

chosen_type = type of the chosen bet.
chosen_match = ID of the match of the chosen bet.

INSERT INTO BetRemovedByAdmin

VALUES ('user_id', 'chosen_match', 'chosen_type', 'current_date')

3.12 Lottery Ticket List



Figure 12: Lottery Tickets

• Buy Lottery Ticket:

chosen_lottery = ID of the lottery of the lottery ticket. chosen_bettor = ID of the bettor that is buying the ticket.

INSERT INTO BettorBoughtTicket

VALUES ('chosen_bettor', 'chosen_lottery')

UPDATE Wallet

SET app_currency = app_currency - 'ticket_price'

WHERE TC_id = 'chosen_bettor'

Update the Wallet According to the Lottery Result:
 reward = earned reward from the lottery ticket.
 chosen_bettor = ID of the bettor that has bought the ticket.

UPDATE Wallet

SET real_currency = real_currency + 'reward' **WHERE** TC id = 'chosen bettor'

4. Implementation

We are going to use MySQL for database management and PHP for backend development. The application will be tested on Dijkstra servers of Bilkent University and on localhost through XAMPP. The UI was be designed with the mockup tool Axure. After the design phase, the GUI will be implemented using React.

5. Website

In the following, the website where we will be sharing our project documents can be found: https://znurcavcar.github.io/ProjectCS353/