Login Shailesh

Abstract Code

- User enters email/nickname(\$UserID) and password(\$Password) and clicks on the Login button.
- User credentials check task

SELECT email from TradePlazaUser where (TradePlazaUser.email='\$UserID' or TradePlazaUser.nickname='\$UserID') and TradePlazaUser.password='\$Password';

- If an empty row is returned through the query, display an error message in the screen stating as an invalid login credentials.
- If a user row is returned, store the returned email address in variable '\$UserID' and navigate the user to Main Menu.

Registration Shailesh

Abstract Code

- User enters email(\$UserID), password(\$Password), nickname(\$NickName), firstname(\$FirstName), lastname(\$LastName) and postalcode(\$PostalCode) and clicks on the Register button.
- New user registration credentials check task

INSERT INTO TradePlazaUser (email, password, nickname, first_name, last_name, FK_Address_PostalCode) VALUES (\$UserID, \$Password), \$NickName, \$FirstName, \$LastName, \$PostalCode));

- If an error is returned from the query, display an error message in the screen stating as an invalid registration credentials.
- If a user row is returned, store the returned email address in variable '\$UserID' and navigate the user to Main Menu.

Main Menu Shailesh

Abstract Code

- Fetch and display firstname, lastname and nickname of user using \$UserID.
- User Details fetch task

SELECT first_name, last_name, nickname from `User` where (User.email='\$UserID' or User.nickname='\$UserID');

- o Display firstname, lastname and nickname of the user in the main menu.
- Fetch average response time for accepting/rejecting a trade by the user.
- Fetch average response time task

```
Select ROUND(avg(TIMESTAMPDIFF(DAY,accept_reject_date,NOW())),1) from Trade Inner Join (
Select Item.item_number, ItemJoin.email from Item
NATURAL JOIN (
Select BoardGame.item_number, BoardGame.email from BoardGame
UNION
Select PlayingCardGame.item_number, PlayingCardGame.email from PlayingCardGame
UNION
Select CollectibleCardGame.item_number, CollectibleCardGame.email from CollectibleCardGame
UNION
Select ComputerGame.item_number, ComputerGame.email from ComputerGame
UNION
Select VideoGame.item_number, VideoGame.email from VideoGame
) AS ItemJoin where '$UserID' = ItemJoin.email
)
AS TradeJoin ON Trade.counter_party_item_number= TradeJoin.item_number
where Trade.trade_status='Accepted' or Trade.trade_status='Rejected'
GROUP BY TradeJoin.email;
```

- o If nothing gets returned, display None with black text.
- o If data is returned, display text with corresponding color.
- Fetch number of unaccepted trades by the user.
- Fetch number of unaccepted trades task

```
Select count(*) from
Trade Inner Join
(
Select Item.item_number, ItemJoin.email from Item
NATURAL JOIN (
Select BoardGame.item_number, BoardGame.email from BoardGame
UNION
Select PlayingCardGame.item_number, PlayingCardGame.email from PlayingCardGame
UNION
Select CollectibleCardGame.item_number, CollectibleCardGame.email from CollectibleCardGame
UNION
Select ComputerGame.item_number, ComputerGame.email from ComputerGame
```

```
UNION
Select VideoGame.item_number, VideoGame.email from VideoGame
) AS ItemJoin where '$UserID' = ItemJoin.email
)
AS TradeJoin ON Trade.counter_party_item_number= TradeJoin.item_number
where Trade.trade_status='Proposed'
GROUP BY TradeJoin.email;
```

- o If nothing gets returned, display 0 without any links.
- o If greater than 0 but less than 2, provide link to Accept/Reject form.
- If greater or equal to 2, change color to red(underlined) and provide link to Accept/Reject form.
- Fetch current trade rank of the user.
- Fetch current trade rank task

```
Select count(*) from Trade Inner Join
Select Item.item_number, ItemJoin.email from Item
NATURAL JOIN (
Select BoardGame.item_number, BoardGame.email from BoardGame
UNION
Select PlayingCardGame.item_number, PlayingCardGame.email from PlayingCardGame
UNION
Select\ Collectible Card Game. item\_number,\ Collectible Card Game. email\ from\ Collectible Card Game
UNION
Select ComputerGame.item_number, ComputerGame.email from ComputerGame
UNION
Select VideoGame.item_number, VideoGame.email from VideoGame
) AS ItemJoin where '$UserID' = ItemJoin.email
AS TradeJoin ON Trade.counter_party_item_number= TradeJoin.item_number
Inner Join ON Trade.proposer_item_number= TradeJoin.item_number
where Trade.trade status='Accepted'
GROUP BY TradeJoin.email;
```

- o If nothing gets returned, display None.
- Display the badge according to the count returned.
- User clicks on the logout Button, User is directed to the login screen.
- User clicks on the List Item Button, User is directed to Listing Items Page.
- User clicks on the My Items Button, User is directed to the My Items Page.
- User clicks on the Search Items Button, User is directed to the Search Items Page.
- User clicks on the Trade History Button, User is directed to the Trade History Page.

Propose Trade

Abstract Code

• If the counterparty distance exceeds 100.0, a warning message with the distance displayed at the top should be displayed.

```
SELECT proposer item number, counter party item number, (3958.75 * 2
* POWER (ATAN (SQRT ((POWER (SIN ((offered address.Latitude -
my address.Latitude) / 2), 2) + COS (my address.Latitude) *
COS (offered address.Latitude) * POWER (SIN ((offered address.Longitude
- my address.Longitude) / 2), 2))), SQRT(1 -
(POWER(SIN((offered_address.Latitude - my_address.Latitude) / 2), 2)
+ COS (my address.Latitude) * COS (offered address.Latitude) *
POWER(SIN((offered address.Longitude - my address.Longitude) / 2),
2)))), 2)) as distance
FROM Trade INNER JOIN
        (SELECT item number, email FROM BoardGame UNION
               SELECT item number, email FROM CollectibleCardGame
UNION
               SELECT item number, email FROM ComputerGame UNION
               SELECT item number, email FROM PlayingCardGame UNION
               SELECT item number, email FROM VideoGame
        ) AS offered item ON proposer item number =
offered item.item number INNER JOIN
        tradeplazauser as offered user ON offered user.email =
offered item.email INNER JOIN
       address as offered address ON offered user.postal code =
offered address.postal code INNER JOIN
        (SELECT item number, email FROM BoardGame UNION
               SELECT item number, email FROM CollectibleCardGame
UNION
               SELECT item number, email FROM ComputerGame UNION
               SELECT item number, email FROM PlayingCardGame UNION
               SELECT item number, email FROM VideoGame
       ) AS my item ON counter party item number =
my item.item number INNER JOIN
       tradeplazauser as my user ON my user.email = my item.email
INNER JOIN
```

```
address as my_address ON my_user.postal_code =
my_address.postal_code
WHERE counter_party_item_number IS NULL
•
```

- Only items that are available for trading must be displayed (self).
- Provide an appropriate mechanism for selecting the desired item.
- Should be displayed Number of items, game type, title, and condition
- Items should by ItemNumber.

```
SELECT item number, title, game condition, game type
FROM (
               SELECT item number, title, game condition, 'Board
Game' AS game type FROM BoardGame UNION
               SELECT item number, title, game condition, 'Playing
Cards' as game_type FROM PlayingCardGame UNION
               SELECT item number, title, game condition,
'Collectible Card Game' AS game type FROM CollectibleCardGame UNION
               SELECT item number, title, game condition, 'Video
Game' AS game type FROM VideoGame UNION
               SELECT item number, title, game condition, 'Computer
Game' AS game type FROM ComputerGame
       ) as all games NATURAL JOIN tradeplazauser
WHERE (email = "$UserId" OR nickname = "nickname 100") AND
       item number NOT IN (
               SELECT proposer item number as item number FROM Trade
WHERE trade status = "ACCEPT" OR trade status = "REJECT"
ORDER BY item number ASC;
```

- Once the proposed item has been selected, the user must be given a confirm
- Button to confirm the proposal.
- Once confirmed, the proposed date is saved/written into the Trade table.

```
UPDATE Trade SET counter_party_item_number = "$CounterItemNumber"
WHERE proposer_item_number = "$ProposeItemNumber" AND
counter_party_item_number IS NULL
```

The user should be able to return to the main menu after receiving a confirmation message

Accept/Reject Trade

Abstract Code

- Results of a Search
- List proposed trades in which the user is the counterparty and can accept or reject a trade. For
 each proposal show the date proposed, the desired item's title, the proposer's nickname, their
 rank, distance from the user (rounded to the hundredths), and the proposed item title, all
 ordered by proposal date.

```
SELECT proposed date, my item.title, my item.item number,
my user.nickname, offered user.nickname, offered item.title,
offered item.item number, (3958.75 * 2 *
POWER(ATAN(SQRT((POWER(SIN()offered address.Latitude -
my address.Latitude) / 2), 2) + COS (my address.Latitude) *
COS (offered address.Latitude) * POWER (SIN ((offered address.Longitude
- my address.Longitude) / 2), 2))), SQRT(1 -
(POWER(SIN((offered_address.Latitude - my_address.Latitude) / 2), 2)
+ COS (my address.Latitude) * COS (offered address.Latitude) *
POWER(SIN((offered address.Longitude - my address.Longitude) / 2),
2)))), 2)) as distance
FROM Trade INNER JOIN
        (SELECT item number, email, title FROM BoardGame UNION
               SELECT item number, email, title FROM
CollectibleCardGame UNION
               SELECT item number, email, title FROM ComputerGame
UNION
               SELECT item number, email, title FROM
PlayingCardGame UNION
               SELECT item number, email, title FROM VideoGame
        ) AS offered item ON proposer item number =
offered item.item number INNER JOIN
        tradeplazauser as offered user ON offered user.email =
offered item.email INNER JOIN
        address as offered address ON offered user.postal code =
offered address.postal code INNER JOIN
        (SELECT item number, email, title FROM BoardGame UNION
               SELECT item number, email, title FROM
CollectibleCardGame UNION
               SELECT item number, email, title FROM ComputerGame
UNION
               SELECT item number, email, title FROM
PlayingCardGame UNION
               SELECT item number, email, title FROM VideoGame
        ) AS my item ON counter party item number =
my item.item number INNER JOIN
       tradeplazauser as my user ON my user.email = my item.email
INNER JOIN
    address as my address ON my user.postal code =
my address.postal code
WHERE my user.email = "$UserId" or my user.nickname = "nickname 1"
AND trade status = "PENDING"
```

• Both item fields should contain a link to the item's detail page.

- A mechanism for accepting/rejecting should be provided: Accept, Reject
- If the trade is accepted, query the USER table and display a dialog containing the proposer's email address and first name.
- The trade's acceptance or rejection date is recorded in the database as part of the trade table
- If the proposed trade is turned down, a new trade for the same proposed item and the same desired item cannot be proposed.

```
UPDATE Trade SET trade_status = "$ACCEPT/REJECT", accept_reject_date
= NOW() WHERE proposer_item_number = "$ProposeItemNumber"
counter_party_item_number = "$CounterItemNumber"
```

• Accepting a trade removes the item from the listing (Search and Display Search Results), and the user should be returned to the main menu if no more trades need to be accepted or rejected.

List Item

Abstract Code

Check if PendingUserTrades is greater than 2

```
SELECT COUNT(item_number) FROM (SELECT item_number FROM (
SELECT item_number FROM BoardGame WHERE owner_email='$UserID'
UNION
SELECT item_number FROM PlayingCardGame WHERE owner_email='$UserID'
UNION
SELECT item_number FROM CollectibleCardGame WHERE owner_email='$UserID'
UNION
SELECT item_number FROM ComputerGame WHERE owner_email='$UserID'
UNION
SELECT item_number FROM ComputerGame WHERE owner_email='$UserID'
UNION
SELECT item_number FROM VideoGame WHERE owner_email= '$UserID') AS UserItems
INNER JOIN (SELECT counter_party_item_number FROM Trade WHERE trade_status =
"PENDING") AS PendingTrades) AS PendingUserTrades;
```

- If user has > 2 unaccepted trades Then display error "Cannot list item. Check pending trades"
 - o Back to *Main Menu* button
- Else:
 - o Show **New Item Listing** form
 - o Show empty title textbox
 - o Show empty description textbox
 - o Game type dropdown is populated with game type ENUM
 - o Condition dropdown is populated with condition ENUM
 - o If Collectable card game selected
 - Show text box for number of cards being offered
 - o If video game selected
 - Show dropdown for platform

SELECT name AS 'PlatformName' from platform

- Show dropdown for media populated with media ENUM
- o If computer game selected
 - Show dropdown for platform populated with computer game platform ENUM
- On click List Item button
- Validate user input
 - o If failed validation, no query
 - o Else:

```
title = gt_txtbox.GetValue()
description = gd_txtbox.GetValue()
condition = gc_combobox.GetStringSelection()
INSERT INTO Item () VALUES ();
INSERT INTO BoardGame (item_number, title, description, game_condition, owner_email)
SELECT NewItemNum.item_count, str(title), str(description, str(condition),'$UserID'
FROM (SELECT COUNT(item_number) AS item_count FROM Item) AS NewItemNum;
```

- Display screen with a success message pop up.
- End

My Items

Abstract Code

• Get game counts for logged user

```
SELECT COUNT(item_number) AS GameCount FROM BoardGame WHERE user_email = '$UserID';
SELECT COUNT(item_number) AS GameCount FROM CollectibleCardGame WHERE user_email = '$UserID';
SELECT COUNT(item_number) AS GameCount FROM ComputerGame WHERE user_email = '$UserID';
SELECT COUNT(item_number) AS GameCount FROM PlayingCardGame WHERE user_email = '$UserID';
SELECT COUNT(item_number) AS GameCount FROM VideoGame WHERE user_email = '$UserID';
```

• Get each item's parameters and display them

```
    SELECT title, condition, description from BoardGame WHERE user_email = '$UserID';
    display all the user's listed BoardGame items. if len(description) > 100: description = description[:100] + "..."
    SELECT title, condition, description from PlayingCardGame WHERE user_email = '$UserID';
    display all the user's listed PlayingCardGame items. if len(description) > 100: description = description[:100] + "..."
    SELECT title, condition, description from ComputerGame WHERE user_email = '$UserID';
    display all the user's listed ComputerGame items. if len(description) > 100: description = description[:100] + "..."
    SELECT title, condition, description from CollectibleCardGame WHERE user_email = '$UserID';
    display all the user's listed CollectibleCardGame items. if len(description) > 100: description = description[:100] + "..."
```

SELECT title, condition, description from VideoGame WHERE user_email = '\$UserID';

- display all the user's listed VideoGame items. if len(description) > 100: description = description[:100] + "..."
- For each item, display a button to bring up a detailed item view

Search

Abstract code

- 1. Begin
- 2. Show a rundown of radio buttons which permit to look by watchword, in clients postal code, inside X miles, in determined postal code
- 3. Client selects one of the options (\$search_option)
- 4. On Click Search!:
 - 1. Query the database to retrieve items which could be part of the new trade. These items should satisfy below three conditions:
 - 1. Item should not belong to the user
 - 2. Items should not be a part of an existing trade
 - With calculated distance based on postal_code of \$SessionID

(logged in user's email) and the postal_code of users items which satisfies one of the search conditions

```
WITH items_union AS(
    select
    temp.item_number,
    title,
    description,
    game_condition,
    game_type,
    email
    from
```

```
Item it
INNER JOIN (
  (
      select
          item_number,
           title,
          description,
          game_condition,
          "Video game" as game_type,
          email
       from
         VideoGame
   UNION
      select
          item_number,
          title,
          description,
          game_condition,
           "Computer game" as game_type,
          email
      from
          ComputerGame
   UNION
```

```
select
       item_number,
       title,
       description,
       game_condition,
       "Collectible card game" as game_type,
       email
   from
      CollectibleCardGame
UNION
   select
       item_number,
       title,
       description,
       game_condition,
       "Playing card game" as game_type,
       email
   from
      PlayingCardGame
UNION
  select
       item_number,
       title,
```

```
description,
                  game_condition,
                  "Board game" as game_type,
                  email
              from
                 BoardGame
          )
      ) temp ON temp.item_number = it.item_number
) ,
query_on_user AS(
  -- Used to get logged in TradePlazaUser's email
  SELECT
     u.*
  FROM
     TradePlazaUser u
  WHERE
     u.email = '$SessionID'
) ,
accepted trade items AS (
  -- Used to get list of accepted items (proposer and counterparty) so that we can
exclude them
  SELECT
     proposed_item_number,
      counter_party_item_number,
     trade_status
  FROM
     Trade s
) ,
```

```
items_to_find_dist AS(
  SELECT
      item_number,
      game_type,
      title,
      game_condition,
      description,
      u.postal_code AS item_postal_code,
      u.email
  FROM
      items_union i
      LEFT JOIN TradePlazaUser u ON i.email = u.email
  WHERE
      u.email <> '$SessionID'
      AND item number NOT IN(
         (
             SELECT
                proposed item number
             FROM
                accepted_trade_items
          UNION
              SELECT
                counter_party_item_number
              FROM
                  accepted_trade_items
```

```
response_time AS(
  select
      i.email,
      ROUND (
           avg(TIMESTAMPDIFF(DAY, accept_reject_date, NOW()), 1)
       ) as Response_Time
   from
       items union i
       INNER JOIN TradePlazaUser u ON i.email = u.email
       INNER JOIN Trade tr on i.item_number = tr.counter_party_item_number
   where
      trade_status = "Accepted"
      or trade_status = "Rejected"
  Group By
      i.email
) ,
user_rank AS(
  select
      i.email,
       Count(*) as trade count,
       CASE
           WHEN trade_count >= 10 THEN 'Alexandinium'
           WHEN trade_count >= 8
           AND trade_count <= 9 THEN 'Platinum'</pre>
```

```
WHEN trade_count >= 6
       AND trade count <= 7 THEN 'Gold'
       WHEN trade_count >= 4
       AND trade count <= 5 THEN 'Silver'
       WHEN trade count >= 3
       AND trade count <= 4 THEN 'Bronze'
       WHEN trade_count >= 1
       AND trade_count <= 2 THEN 'Aluminium'
   END as user_rank
from
   items union i
   INNER JOIN TradePlazaUser u ON i.email = u.email
   INNER JOIN ((
       SELECT
          proposed_item_number as tr_item_no
       FROM
          accepted_trade_items
       where
          trade_status = "Accepted"
UNION
   SELECT
      counter_party_item_number as tr_item_no
   FROM
       accepted_trade_items
   where
```

```
trade_status = "Accepted"
  )) tr on i.item number = tr.tr item no
  Group By
      i.email
) ,
lat lon AS(
  SELECT
      items_to_find_dist.*,
      query on user.postal code AS user postal code,
      RADIANS (a.latitude) AS lat1,
      RADIANS (a2.latitude) AS lat2,
      RADIANS (a.longitude) AS lon1,
      RADIANS (a2.longitude) AS lon2,
      RADIANS(a2.latitude - a.latitude) :: NUMERIC(9, 6) AS delta lat,
       RADIANS(a2.longitude - a.longitude) :: NUMERIC(9, 6) AS delta lon
   FROM
      items to find dist
       LEFT JOIN response time on items to find dist.email = response time.email
      LEFT JOIN user rank on items to find dist.email = user rank.email
       CROSS JOIN query on user
       LEFT JOIN Address a ON items to find dist.item postal code = a.postal code
       LEFT JOIN Address a2 ON query on user.postal code = a2.postal code
haversine AS(
  SELECT
       DISTINCT ON (item_postal_code, user_postal_code) item_postal_code,
      user postal code,
```

```
(SIN(delta_lat / 2.0) * SIN(delta_lat / 2.0)) + (
          COS(lat1) * COS(lat2) * SIN(delta_lon / 2.0) * SIN(delta_lon / 2.0)
       ) AS haversine_a
  FROM
      lat lon
SELECT
  la.item_number,
  la.game_type,
  la.title,
  la.game condition,
  la.description,
  h.item_postal_code,
  h.user_postal_code,
  3958.75 * 2 * (ATAN2(SQRT(haversine a), SQRT(1 - haversine a))) AS distance
FROM
  lat_lon la
  LEFT JOIN haversine h ON (
      la.user postal code = h.user postal code
      AND la.item_postal_code = h.item_postal_code
  ) --WHERE CLAUSE ADDED HERE
```

- 5. If (\$search_option) = "search by keyword"
 - 1. search only on name_title and description for keyword
 - 2. Add in to last line of above query where it is specified -WHERE

CLAUSES ADDED HERE-

WHFRF

```
la.title LIKE '%$search_keyword%'

OR la.description LIKE '%$search_keyword%'
)
```

6. If (\$search_option) = "search by in user's postal code"

WHERE

```
h.item_postal_code = h.user_postal_code
```

- 7. If (\$search option) = "within X miles"
 - 1. Take user input of X: (\$miles)

WHERE

```
distance <= ' $ miles '</pre>
```

- 8. If (\$search_option) = "search by specified postal code"
 - 1. Take user input of postal code: (\$postal_code_search)

WHERE

```
h.item_postal_code = '$postal_code_search'
```

- 9. Assuming that results are found:
- 10. Show thing number, game sort, thing name/title, the condition and the initial 100 characters of the depiction (in the event that the portrayal is more noteworthy than 100 characters, place an ellipsis (...) toward the finish to demonstrate it has been shortened), normal reaction time and dealer position of other client
- 11. In the event that hunt by catchphrase chose:
- 12. Then, at that point, feature the fields that match the catchphrase in blue

- 13. Assuming that pursuit by postcode is chosen AND the postcode is invalid:
- 14. Then show a mistake message
- 15. On click Detail:
- 16. Divert to a matching View Item page
- 17. ELSE
- 18. Show a message "Sorry, no outcomes found!"
- 19. END

View Item

Abstract code

- Click through from Detail CTA In Search or Detail CTA in My Items
- Determine if click through is from Search or My Items. Get item_number (\$item_number) based on the item that the user clicked
- 1. If from My Items, display
 - 1. item_number, title, game type, condition, description (if not null)
 - 2. If item listed is a "Video Game", "Computer Game" or "Collectible Card Game", display specific fields

```
WITH items_union AS(
    select
    temp.item_number,
    title,
    description,
    game_condition,
    game_type,
    email
    from
```

```
Item it
       INNER JOIN (
          (
              select
                  item number,
                  title,
                  description,
                  game_condition,
                  "Video game" as game_type,
                  email,
                  null as number_of_cards,
                  null as cg_platform,
                  media,
                  name as vg_platform
              from
                  VideoGame
                  INNER JOIN platform on VideoGame.platform_id =
platform.platform_id
           )
           UNION
              select
                  item_number,
                  title,
                  description,
                  game_condition,
                  "Computer game" as game_type,
                  email,
```

```
null as number_of_cards,
       platform as cg_platform,
       null as media,
       null as vg_platform
   from
       ComputerGame
UNION
   select
       item_number,
       title,
       description,
       game_condition,
       "Collectible card game" as game_type,
       email,
       number_of_cards,
       null as cg_platform,
       null as media,
       null as vg_platform
   from
      CollectibleCardGame
UNION
   select
       item_number,
```

```
title,
        description,
        game_condition,
        "Playing card game" as game_type,
        email,
        null as number_of_cards,
       null as cg_platform,
       null as media,
       null as vg_platform
    from
       PlayingCardGame
UNION
   select
        item_number,
       title,
       description,
       game_condition,
        "Board game" as game_type,
        email,
        null as number_of_cards,
       null as cg_platform,
       null as media,
        null as vg_platform
    from
        BoardGame
```

```
) temp ON temp.item number = it.item number
) ,
SELECT
  i.item number,
  i.title,
  i.game condition,
  i.description,
  i.game_type,
  i.vg platform,
  i.media,
  i.cg_platform,
   i.number_of_cards
FROM items union
WHERE
  i.item_number = '$item_number'
  AND i.email = '$SessionID'
```

- 1. If from Search, display the same information as listed in My Items, but with the addition of the following information about the other user (referred as counterparty).
 - nickname, city, state, postal code. Distance, item_number, rank, response time can be taken from Search task and forwarded to this display
 - Using item_number (\$item_number), perform query to get nickname of counterparty with item_number

SELECT

```
u.nickname

FROM

items_union i

LEFT JOIN TradePlazaUser u ON i.email = u.email

WHERE

item_number = ' $ item_number '
```

1. Using postal code for item for counterparty (forwarded from Search), query city and state

SELECT

```
city,
   state

FROM
   Address

WHERE
   postal_code = '$postal_code'
```

- 1. If the user's postal code!= the item's owner postal code,
- 2. Then display distance
- 3. IF 0.0 < distance < 25.0 miles
- 4. Then add green background
- 5. IF 25.00 < distance < 50.0 miles
- 6. Then add yellow background
- 7. IF 50.00 < distance < 100.0 miles
- 8. Then add orange background
- 9. IF distance > 100.0 miles
- 10. Then add red background
- 11. OTHERWISE Hide distance

- 12. Depending on the context, different elements will be displayed.
- 13. If the user has not accepted < 2 trades, then display Propose Trade.
- 14. OTHERWISE, Propose Trade is not displayed.
- 15. When you click Propose Trade, you will be redirected to Add Trade Proposal

View Trade History

Chris G

Abstract Code

- User clicked on View Trade History from Main Menu
- Trade Summary Task
 - o Find current User using global variable *TradePlazaUser.email*, from login

SELECT Email FROM 'User' WHERE TradePlazaUser.email='UserID';

 Display <u>Trade Summary</u> form at the top of <u>Trade History</u> form, provides statistics when current User is Proposer or Counterparty, show Total appearance, Accepted count, Rejected count, and Reject rate

```
SELECT "My role"
       COUNT(*) AS Total,
       SUM(IF (trade_status="Accepted", 1, 0)) AS Accepted,
      SUM(IF (trade status ="Rejected", 1, 0)) AS Rejected,
       FORMAT(Rejected / Total, 'P1') AS "Rejected %"
FROM (
      SELECT trade status,
            IF(P.OwerID='$UserID', "Proposer", "Counterparty") AS 'My role',
      FROM Trade AS T
            INNER JOIN (
                 SELECT FK_Item_Item_Number, FK_User_Email from BoardGame
                 SELECT FK Item Item Number, FK User Email from PlayingCardGame
                 UNION
                 SELECT FK Item Item Number, FK User Email from CollectibleCardGame
                 UNION
                 SELECT FK_Item_Item_Number, FK_User_Email from ComputerGame
                 UNION
                 SELECT FK_Item_Item_Number, FK_User_Email from VideoGame
                 ) AS PI ON T.FK_Proposer_Item_Item_number=PI.FK_Item_Item_Number
            INNER JOIN (
                 SELECT FK Item Item Number, FK User Email from BoardGame
                 UNION
                 SELECT FK Item Item Number, FK User Email from PlayingCardGame
                 UNION
                 SELECT FK Item Item Number, FK User Email from CollectibleCardGame
                 UNION
                 SELECT FK Item Item Number, FK User Email from ComputerGame
```

```
UNION

SELECT FK_Item_Item_Number, FK_User_Email from VideoGame
) AS CI ON T.FK_Proposer_Item_Item_number=CI.FK_Item_Item_Number

WHERE CI.FK_User_Email='$UserID' OR PI.FK_User_Email='$UserID'
)
GROUP BY "My role";
```

- If Rejected % >=50%, highlight background in red
- Below, display <u>Trade History Detail</u> form, provides detailed information related to trades, show Proposed Date, Accepted/Rejected Date, Trade Status, Response Time, My role, Proposed Item, Desired Item, Other User (Counterparty)

```
SELECT proposed data AS "Proposed Date",
       accept reject data AS "Accepted/Rejected Date",
       trade status AS "Trade status",
       ISNULL(proposed date-accept reject date, proposed date-FORMAT(
             getdate(), MM/dd/yyyy) ) AS "Response time (days)",
       IF(PI.FK User Email='$UserID', "Proposer", "Counterparty") AS 'My role',
       Pl.title AS 'Proposed Item',
       CI.title AS 'Desired Item'.
       IF( PI.FK User Email='$UserID', CU.nickname, PU.nickname ) AS 'Other User'
FROM Trade AS T
            INNER JOIN (
                 SELECT FK Item Item Number, FK User Email, title, from BoardGame
                 UNION
                 SELECT FK Item Item Number, FK User Email from PlayingCardGame
                 UNION
                 SELECT FK_Item_Item_Number, FK_User_Email from CollectibleCardGame
                 UNION
                 SELECT FK Item Item Number, FK User Email from ComputerGame
                 UNION
                 SELECT FK Item Item Number, FK User Email from VideoGame
                 ) AS PI ON T.FK Proposer Item Item number=PI.FK Item Item Number
            INNER JOIN (
                 SELECT FK Item Item Number, FK User Email from BoardGame
                 UNION
                 SELECT FK Item Item Number, FK User Email from PlayingCardGame
                 UNION
                 SELECT FK Item Item Number, FK User Email from CollectibleCardGame
                 UNION
                 SELECT FK Item Item Number, FK User Email from ComputerGame
                 UNION
                 SELECT FK_Item_Item_Number, FK_User_Email from VideoGame
                 ) AS CLON T.FK Proposer Item Item number=Cl.FK Item Item Number
            LEFT JOIN TradePlazaUser AS PU ON PU.email=PI.FK User Email
            LEFT JOIN TradePlazaUser AS CU ON CU.email=CI.FK User Email
WHERE PI.FK_User_Email ='$UserID' OR CI.FK_User_Email ='$UserID'
```

ORDER BY "Proposed Date" DESC, "Response time (days)" DESC;

- After each row of <u>Trade History Detail</u> form, there is one *Detail* button, on click goes to <u>View Trade Detail</u> form
- o A *Back* button should present, on click goes back to <u>Main Menu</u>

View Trade Details

Chris G

Abstract Code

- Detail view breaks down into four sections
 - o Trade Details
 - User Details
 - Proposed Item
 - Desired Item

```
DECLARE @Dlat double(16,8)
DECLARE @Dion double(16,8)
DECLARE @a double(16,8)
DECLARE @c double(16,8)
DECLARE @R double(16.8) = 3958.75
SELECT T.proposed_date AS "Proposed Date",
       T.accept reject date AS "Accepted/Rejected Date",
       T.trade status AS "Trade status",
       IF(PI.FK_User_Email='$UserID', "Proposer", "Counterparty") AS 'My role',
       ISNULL(T.proposed date-T.accept reject date, T.proposed date-FORMAT(
              getdate(), MM/dd/yyyy) ) AS 'Response time (days)',
       IF( PI.FK User Email='$UserID', CU.nickname, PU.nickname ) AS Nickname
       @Dlat= Address.Latitude- Address.Latitude,
       @Dlon= Address.Longitude- Address.Longtitude,
       @a= SQUARE(SIN(@Dlat/2)) + COS(Address.Latitude)* COS(Address.Latitude)*
SQUARE(SIN(@Dlon/2)),
       @c= 2*ATN2(SQRT(@a), SQRT(1-@a)),
       @R * @c AS Distance
       IF( PI.FK_User_Email='$UserID', CU.first_name + "" + CU.last_name, PU.first_name +
"" + PU.last name ) AS Name
       IF( PI.FK_User_Email='$UserID', CU.email, PU.email) AS Email
       PI.FK_Item_Item_Number AS 'Item #',
       PI.title AS Title,
       Pl. game type AS "Game type",
       Pl.condition AS Condition,
       PI.Description AS Description,
       CI.FK Item Item Number AS 'Item #',
```

```
CI.title AS Title,
       CI. game type AS "Game type",
       CI.condition AS Condition,
FROM 'Trade' AS T
            INNER JOIN (
                 SELECT FK_Item_Item_Number, FK_User_Email, title, "Board Game" AS
game type, condition, description from BoardGame
                 UNION
                 SELECT FK Item Item Number, FK User Email, title, "Playing Card Game"
AS game type, condition, description from PlayingCardGame
                 UNION
                 SELECT FK Item Item Number, FK User Email, title, "Collectible Card
Game" AS game type, condition, description from CollectibleCardGame
                 UNION
                 SELECT FK Item Item Number, FK User Email, title, "Computer Game"
AS game type, condition, description from ComputerGame
                 UNION
                 SELECT FK Item Item Number, FK User Email, title, "Video Game" AS
game type, condition, description from VideoGame
                 ) AS PI ON T.FK Proposer Item Item number=PI.FK Item Item Number
             INNER JOIN (
                 SELECT FK Item Item Number, FK User Email, title, "Board Game" AS
game_type, condition from BoardGame
                 UNION
                 SELECT FK Item Item Number, FK User Email, title, "Playing Card Game"
AS game type, condition from PlayingCardGame
                 UNION
                 SELECT FK Item Item Number, FK User Email, title, "Collectible Card
Game" AS game_type, condition from CollectibleCardGame
                 UNION
                 SELECT FK_Item_Item_Number, FK_User_Email, title, "Computer Game"
AS game_type, condition from ComputerGame
                 UNION
                 SELECT FK Item Item Number, FK User Email, title, "Video Game" AS
game type, condition from VideoGame
                 ) AS CLON T.FK Proposer Item Item number=Cl.FK Item Item Number
             LEFT JOIN TradePlazaUser AS PU ON PU.email=PI.FK User Email
             LEFT JOIN TradePlazaUser AS CU ON CU.email=CI.FK User Email
             INNER JOIN Address ON FK_Address_PostalCode=Address.postal_code
WHERE PI.FK User Email ='$UserID' OR CI.FK User Email ='$UserID'
```

o A *Back* button should present, on click goes back to **View Trade History**