# **Prototype Evaluations**

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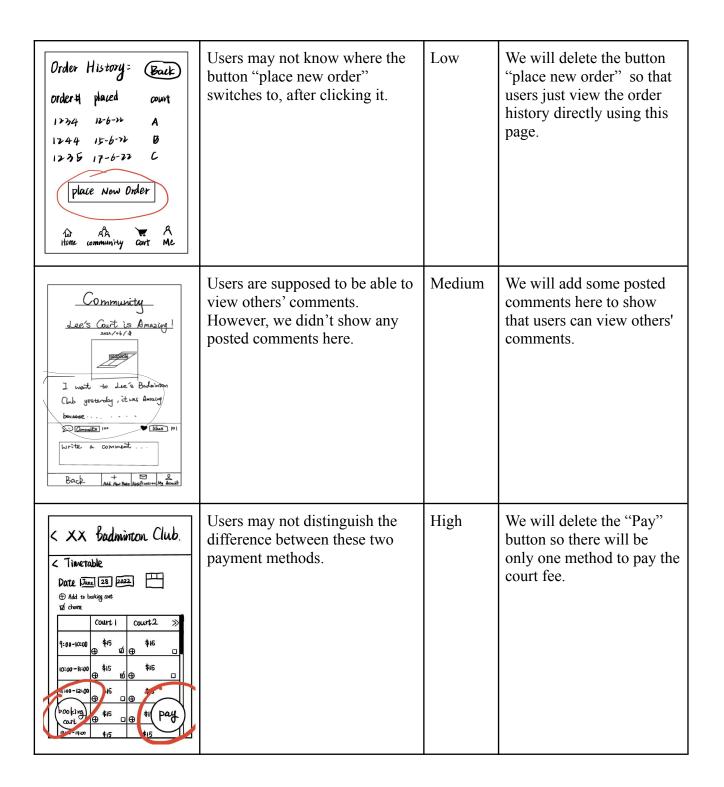
Jiachen; WANG, Dongliang

Group Number: C12

Group Name: Sports Lover TA Name: Maryam Mokhberi

## Section1. Cognitive Walkthrough Results

Issue	Cause	Severity	Remedy
Home Page  Sign in / sign up  Thuailable badminton courts  community  Exit	It's designed so that users must log in before they start to use the app. So it's supposed that they should click on the "sign in/sign up" button first. However, users may click on "community" or "available badminton courts" in the beginning and it will break the logic behind.	High	We will delete the "available badminton courts" button and the "community" button and add another one "visit as a guest". So there will be only three buttons on the home page: "sign in/sign up", "visit as a guest", and "exit".
Com/ Carolaoox @gonail.com  personal info  payment  Order History  View available courts  Log act  AA  Home community Court Me	Users may not find the "Logout" button to sign out of his/her account.	Medium	We add the "Logout" button to let users to log out conveniently.
Corol  Carolizon @gmail.com  personal info  payment  Order History  View available courts  AA  Home community cart Me	First time users may not know what this "home" button leads to.	Low	We will replace <b>all</b> the "home" buttons in the bottom navigation bar with a "search" button in order to better guide our users and avoid misunderstandings.



Community  Lee's Court is Amazing!  2002/06/18  I went to Jue's Badminton  Club yesterday, it was Amazing  bocause	There is no submission instruction after the users write their comments, which would be confused for users because they don't know if they leave a comment successfully	High	We will add a "post" button at the bottom-right corner to allow users to post their comments.
Carol  Carolaton @gmail.com  personal info  payment  Order History  Wiew available courts  AA  Home community cart Me	There is no button for users to check their own posts. It is difficult for users to find their posts and chat with other users.	Medium	We decided to add a 'My Post' button on the profile page.

# **Section2. Heuristic Evaluations**

prototype page reference	Issues	Heuristic(s) violated	severity ratings	number of evaluators
All screens	The back button design is inconsistent.	4. Consistency & standards	2	2
Home Page  Sign in / Sign up  Available badminton courts  community  Exit	Users are supposed to sign in/sign up before they click on the other two buttons. But there is no instruction or limitation here.	1. visibility of system status 3. User control and. Freedom 5. Error prevention	4	4
Carel Back  carrloon Signail. com  personal Info  payment  Order Hissory  View available courts  A A A A  Home community Cart Me	No "Log Out" on the screen. The user cannot log out his/her personal account.	2. Match between system and the real world 3. User control and. freedom	3	2
Order History ( Book)  One Ruder, xor  Commission of the Ruder, xo	Users can not cancel their order efficiently, so a cancel button is needed.	2. Match between system and real world 3. User control & freedom	2	1
Construction  Leaf to Court its Americal  Leaf to Court it	Users should be able to post their comments but there is no submit button.	<ol> <li>Visibility of system status</li> <li>Consistency</li> <li>standards</li> </ol>	4	4

Son your oppiers here  The phase  Englis  Englis  Englis  Englis  Englis  Englis  Phase  Location/Enter keeten	Users should be able to submit a post without adding an image. But there's no option for users to create a post without pictures here.	3. User control & freedom	4	1
C XX Badminton Club.  C Tinetable  Date June 28 pa22  (*) Add to booking out 10 clowr  (*) Court 1 court 2 >>  1-8-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	Users do not know whether the courts are full or not. This may cause a conflict error.	3. Error prevention	3	1
Court   Court 2   Court 2   Court 2   Court 3   Court 4   Court 2   Court 4   Court 4   Court 4   Court 5   Court 6   Court 6   Court 7   Court 7   Court 8   Court	The booking cart and payment functions are supposed to be separate. But the design is not clear and the instructions are not obvious.	2. Match between system and the real world 4. Consistency & standards 8. Aesthetic and minimalist design	3	3
Order History: Back    St. Bulenishe Clab.	Normally, "log out" indicates that the user wants to exit his account on a computer system or an application. However, this button means differently, which redirects users back to the home page. It's confusing for users if their accounts remain	1. Visibility of system status 2. Match between system & real world 4. Consistency & standards	4	1

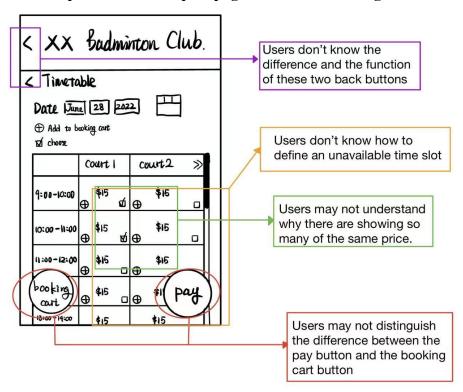
	logged in status or they should sign in again.			
Corder Details  We Bedwinton Club  15 June 21 2020 Court  10 too - 10-00  WWW Bedwinton Club  15 June 22 2020 Court  15 June 23 2020 Court  15 June 25 2020 Cour	Since there are no warnings, there are possibilities that the user accidentally selects wrong time slots and books two different badminton clubs, but with the same time slots. However, there is no doubt that the user could not go to both clubs to play badminton at the same time.	2. Match between system & real world 3. User control & freedom 5. Error prevention 9. Help users recognize, diagnose, & recover from errors	3	1
N. Badmin Club	In the detail page of a badminton club, there is information about price and related coupons. However, in the payment system page, when the system confirms the order details, there are no details about the amount details and coupon apply entrances.	Visibility of system status     Consistency & standards	3	1

Postal Code:    Price   A	In the filter table, the user does not know how to check all results without a scroll bar.	2. Match between system and real world 3. User control & freedom	2	1
Price : \$18 /h. \$3 Gaupen undain  Price : \$18 /h. \$3 Gaupen undain  Aplaese: 17 mallanks  Gomment us. \$407 = 822 - 748  Available Timetable. See debutle  Comments and Review.  filter by true-night  1. Altre. ** **  1. Not bad. but ****	In the detail page of a badminton club, there is information about price. However, in reality, the price may be charged differently based on time period and vacation. It may be confusing for users if they see the price listed in the introduction page of a badminton club is different from that of the timetable page.	4. Consistency & standards	2	1

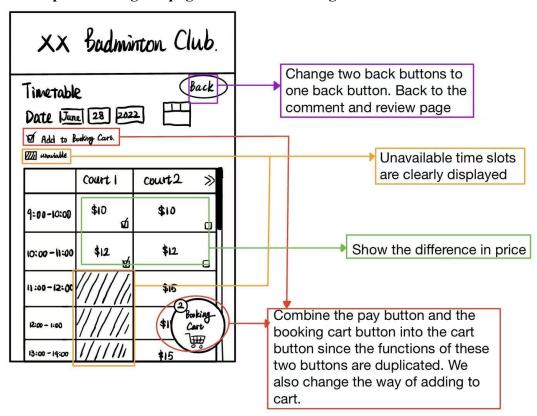
### Section3. Internal Evaluation Results & Design Update

### First significant page:

• Important and complex page #1 - Timetable Page

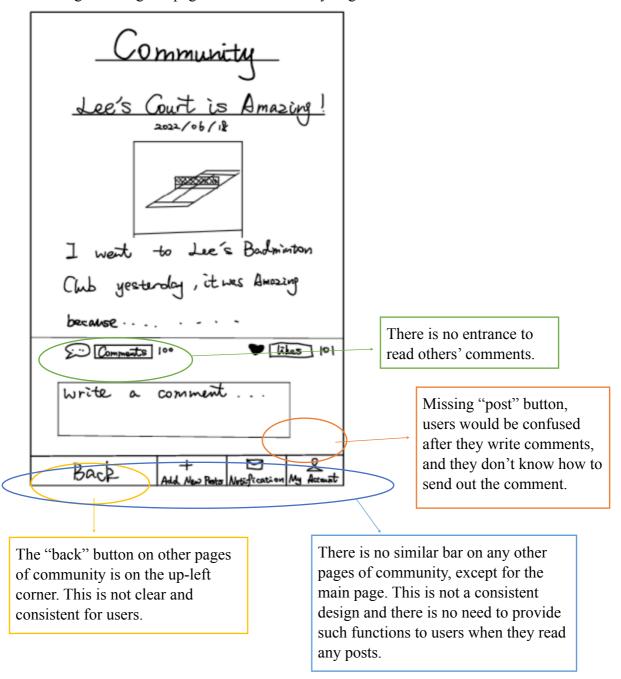


• Updated design of page #1 - Timetable Page



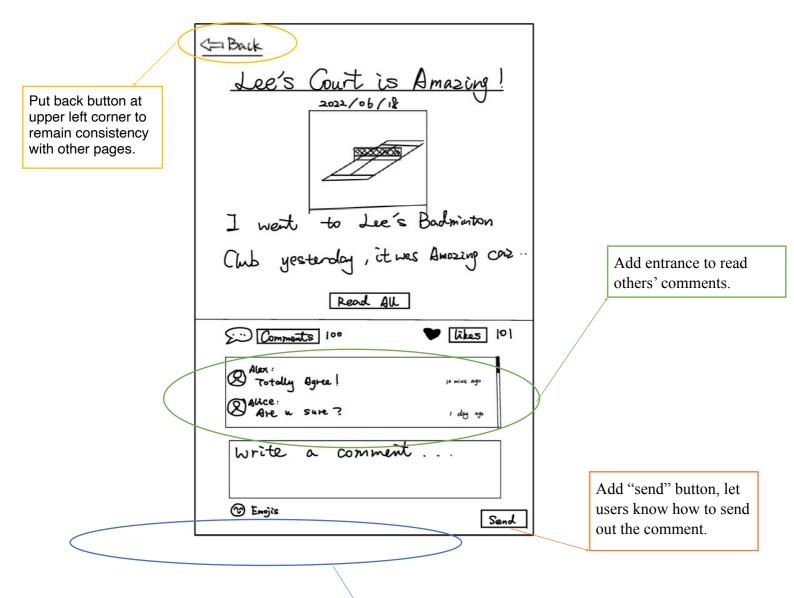
### Second significant page:

• Original design of page # 2 — Community Page



### Second significant page:

• Updated design of page # 2 — Community Page:



Remove bottom navigation bar and bottom back button.
Because users could access bottom navigation bar in previous community page.

# **Appendix 1** Individual Heuristic Evaluations

# Dongliang Wang

Page Reference	Design Issues	Nielsen violated Heuristic #	Severity Ratings
All screens	The back button design is inconsistent.	4. Consistency & standards	2
Carel  Carel Back  Carel Dynail Com  personal info  payment  Order History  View available courts  AA A A  Home community Cart Me	The cart button and booking cart button have different names but have the same function	4. Consistency & standards	2
Carol  Carol  Carol  Carol  Com  Personal info  Payment  Order History  View available courts  AA  Home community ant Me	No log out button	3. User control & freedom	3

Community  Lee's Court is Amazing!  2002/06/18  I want to Lee's Barbanton  Chab yesterday, it was Amazing  bacasse  Discusses 100  Write a Comment  Back And Man Man Manfirester Man Amazing	Loss post button on the comment	3. User control & freedom	4
Carel  Carelaor@gmail.com  personal info  payment  Order History  View available courts  AA  Home community Cart Me	User needs to remember what the home button leads to	6. Recognition rather than recall	3
Carel  Carel  Carel  Carel  Carel  Carel  Carel  Carel  Com  Personal info  Payment  Order History  View available courts  And	Lost my post button. Users cannot check their own posts.	3. User control & freedom	4

## Jiachen Wan

Screen	Problem Details	Severity	Heuristic Violation
Home Page  Sign in 1 sign up  Available badminton courts  community  Exit	No "View as a guest button" on the screen. Users can not choose to view the available badminton courts as a guest.	2	3. User control and. Freedom 1. visibility
Carol  Carol & Back  Carol2020@gmail.com  personal info  payment  Order History  View available courts  AA R  Home community Cort Me	No "Log Out" on the screen. User cannot log out of his/her personal account.	5	2. Match between system and the real world 3. User control and. freedom
Order History: Back  Order History: Back  Order History: Back  1224 12-6-22 A  1225 17-6-22 C  Place New Order  A A A A A A A A A A A A A A A A A A A	Users may not know where the "place new order" button links to.	1	3. User control and. freedom

	Same "back" buttons have the same meaning. Users are confused about which "back" button is which.	5	4. consistency and standards
Community  Less Cone : 3 average  Whose to per ander?  O to O De De O De O De O De O De O De O De	Inconsistencies between menus and buttons. Lack of bottom search bar.	3	4. consistency and standards
Community  Dies Cont.; average  Where to pre. modes?  Dies Dies Dies Dies  Love of here!  Dies Dies Dies  New Cont. Grant J.  Dies Dies Dies  New Cont. Grant J.  Dies Dies Dies Dies Dies Dies Dies Dies	No "Help" button on the screen. Users can not view the help documents when he/she knows what next step to take.	2	10. Help and documentation

Court   Court 2   Court 2   Court   Court 2   Court   Court 2   Court 2   Court 2   Court 2   Court 2   Court 3   Court 4   Court 4   Court 5   Court 6   Court 6   Court 7   Court 7   Court 8   Court 8	Functions of the "pay" button and the "booking cart" button are not clear.	3	2. Match between system and the real world 3. User control and freedom
[15-00 - 14:00   \$15   \$15			

# WANG, Chen

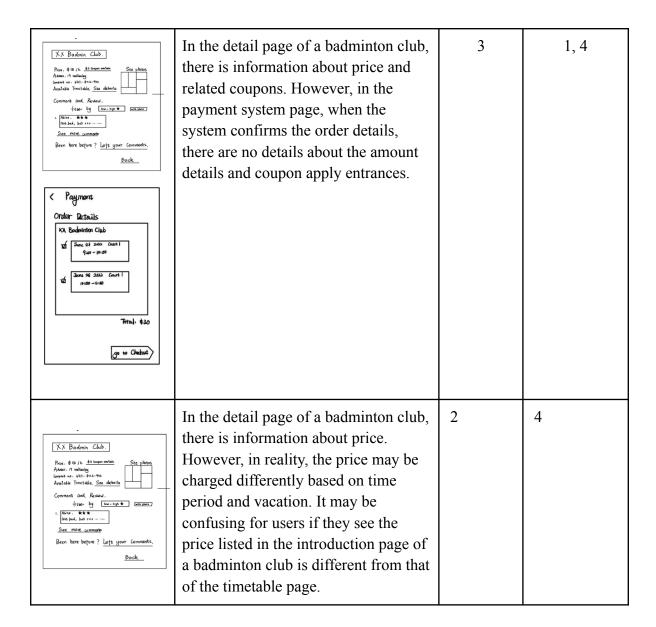
Page #	Design issues	Nielsen violated Heuristic #	Severity rating
All pages	The navigation bar at the bottom of the screen is not uniform	4. Consistency & standards 1. Visibility of system status	3
Home Page  Sign in 1 sign up  Available badminson courts  community  Exit	Users are supposed to sign in/sign up before they click on the other two buttons. But there is no instruction or limitation here.	2. Match between system and real world 5. Error prevention	4
Lee's Court is Amazing!  ansolver/it  I work to he's Bulanton  Child yesterday, it has Amazing  because	Users should be able to post their comments but there is no submit button.	2. Match between system and real world 4. Consistency & standards	4

Son your experience here  The photos  Englis  Enothe lecoton/Enter becation	Users should be able to submit a post without adding an image. But there's no option for users to create a post without pictures here.	3. User control & freedom	4
C XX Budminton Club.  C Timetable  Date June 28 2022  ⊕ Add to looking out  of cherx    Court 1   Court 2	The booking cart and payment functions are supposed to be separate. But the design is not clear and the instructions are not obvious.	8. Aesthetic and minimalist design	3

# Yuanhan peng

Screen	Problem details	Severity	Heuristic violation
Home Page  Sign in 1 sign up  Available badminion courts  community  Exit	It's not clear that if the user must log in or sign up first so that they can use other functions on the application.	4	1

Order History: Back  As Budonite Clab. Jone 27 2022 Cone 1 9.00 - 11.00  VIW Budoniton Club  Place New Order  How questions?  Log out  Log out redirect to Home Page	Normally, "log out" indicates that the user wants to exit his account on a computer system or an application.  However, this button means differently, which redirects users back to the home page. It's confusing for users if their accounts remain logged in status or they should sign in again.	4	1, 2, 4
Color Retails  We Bodination Club  15 Jan 27 202 Court  10:00 - 10:00  WWW Bodination Club  15 Jan 27 202 Court  10:00 - 10:00  15 Jan 27 202 Court  10:00 - 10:00  15 Jan 27 202 Court  16 Jan 27 202 Court  16 Jan 28 202 Court  17 Jan 28 202 Court  18 Jan 28 202 Court  19 Jan 28 202	Since there are no warnings, there are possibilities that the user accidentally selects wrong time slots and books two different badminton clubs, but with the same time slots. However, there is no doubt that the user could not go to both clubs to play badminton at the same time.	3	2,3,5,9
Lee's Court is Amazing    accepted to Jac's Budainson  Club yesterday, it was alwaing  because  Write a comment  Back And And Man	There is no submission button. After the user finishes his comments, he may be confused about how to confirm that he posts his comment successfully.	4	1



### Wenxin Zhang

prototype page reference	Issues	Heuristic(s) violated	severity ratings
All pages	Buttom nevigation bar not consistent.	4. Consistency & Standards	3

Home Page  sign in 1 sign up  Available badminion courts  community  Exit	Users should first sign in before seeing available badminton courts.	5. Error prevention	4
Conl  Carolson @gmail.com  personal info  payment  Order History  View available courts  A  Home community Cart Me	Because the navigation bar "Home" has been modified to "Search", the "view available courts" should be deleted.	8. Aesthetic and minimalist design	3
Corel  Carelson @gmail.com  personal info  payment  Order History  View available courts  AA A A  Home community cart Me	Missing logout button	3. User control & freedom	3
Order History: Back  Order History: Court Mc  Order History: Content Mc	Missing scrolling bar for order history	3. User control & freedom	2

N.S. Bodonin Clab.  Price 6 to 16. \$1 tops union Annue 101-10-10-10 Connect Drift, Part-70	Missing scrolling bar for review viewing	3. User control & freedom	2
Det. XXX  Rota. In the Interfect of General . Not Sustainf  Multiple (18-3).  Submits  Quick TYVIOPIS! ASDIGHT XVIOPES! ASDIGHT XVIOPES!	Missing back button	3. User control & freedom	3
Lee's Court is Amazing  Jee's Court is Amazing  I won't to Jee's Balandon  Chb yesterday, it was Amazing  breaker  Denoted 100  Write a comment  Back Amazing by Black 1001  Write a comment	Misleading back button, not consistency bottom navigation bar	4. Consistency & Standards	3

Tang, Jiaguan

Page #	Design issues	Nielsen violated Heuristic #	Severity rating
Order Highty (Book)    Value   Mark   Same   Same	Users can not cancel their order efficiently, so a cancel button is needed.	User control & freedom	2

Let's Gut is Amazing!  and "11 /2  I work to Jae's Balanton  Chab greteraby it has Amazing  because	Users can not submit their comments on a post.	Consistency & standards	4
Postal Code:    Pristant   A   Prist   A   Prist   A   Prist   A	In the filter table, the user does not know how to check all results without a scroll bar.	Flexibility and efficiency of use	2
Court   Court 2 >>    Court   Court 2 >>   Court   Court 2 >>   Court   Court 2 >>   Court   Court 3     Court   Court 4     Court 4   Court 5     Court 6   Court 6     Court 7   Court 7     Court 8   Court 8     Court 9   Court 9     Court 9   Court 9	Users do not know whether the courts are full or not. This may cause a conflict error.	Error prevention	3

# **Appendix 2: Assignment attribution**

Cognitive Walkthrough	All group members
Heuristic Evaluations	All group members
Combination of section 2	WANG, Chen; TANG, Jiaguan
Interval evaluation	WANG, Dongliang; PENG, Yuanhan; WAN, Jiachen; ZHANG, Wenxin