Lancaster University College at Beijing Jiaotong University





TASK-5

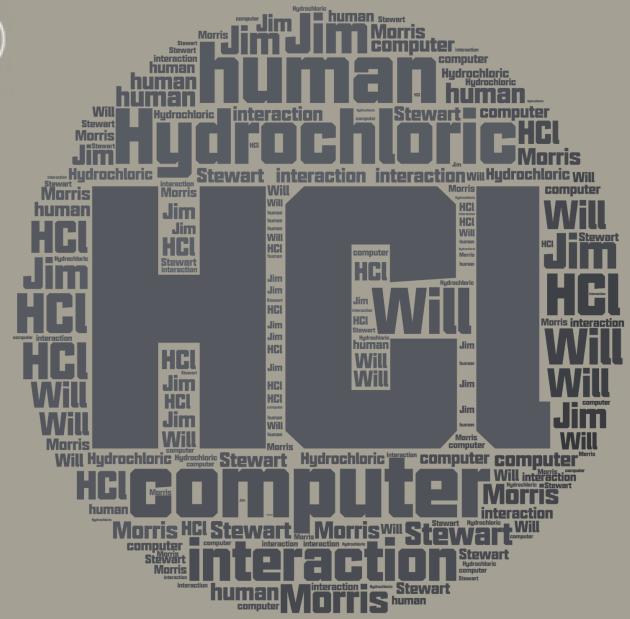
Haotian Sang

Chenhui Mao

Yuekai Yin

Xiao Xie

Zhuohua Qi



Final Result













1. Predictability

- Place of departure and destination
- Date of departure
- Filters (e.g. student tickets only)
- Search
- Choose one period to buy
- Select Passenger
- Pay

北京		上海	
出发日期 5月5日	周日		
只看高铁/动车	学生票 🗌	兑换车次 🗌	
查询车票			
北京上海		清除历史	





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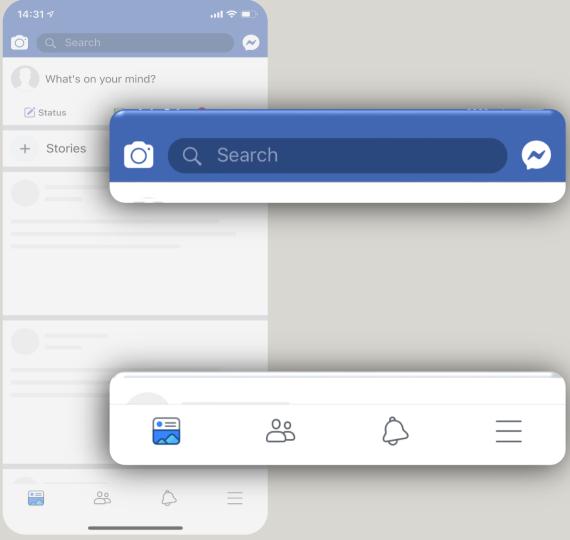
2. Familiarity & Strive for Consistency

Have similar layout as other frequent used software such as WeChat, FACEBOOK...

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3. Familiarity & Strive for Consistency

Similar operation logic between similar function.

e.g. Reserve for meal & Late query







- 4. Dialog Initiative/System Pre-empt Provide prompt, if emergence happened.
- 5. Dialog Initiative/User Pre-empt
 User can use late query for getting rail way information.

温馨提示

您选择的方案需要在 徐州东 换乘,两车间隔时间为 1小时23分钟,请您充分考虑各种影响换乘的因素,并自愿承担因自身或第三方等原因导致延误换乘的风险。

取消

确定

中铁手机卡







- 6. Observability defaults
 While querying, system will suggest possible words based on user's input.
- 7. Responsiveness
 Stable response time as user clicking on every button.
- 8. Reduce short-term memory
 Load simple and clear display for information.



G101	66:43	5小时57分钟	❷ 上海虹材 12:40	۴
商务: 无	一等:	无	二等: 无	
站序	站名	到时	发时	时长
1	北京南		06:43	
2	沧州西	07:35	07:38	3分钟
3	德州东	08:05	08:13	8分钟
4	济南西	08:37	08:41	4分钟
5	曲阜东	09:13	09:15	2分钟
6	枣庄	09:38	09:40	2分钟
7	宿州东	10:12	10:14	2分钟





Disadvantages

1. Synthesizability

No feedback for pressing a button, users will have no idea whether they have chosen the right option.

2. Consistency

During the Late query, it lack the shortcut option of QR code scanning operation like other functions do, which creates burden.



Improvement

Add a feedback for pressing a button, a simple highlight could work.

Add the shortcut option of QR code scanning into Late Query.







Disadvantages

3. Task migratability

No option of telephone reservation once fail to reserve the tickets.

4. Customizability

No options for preference setting or changing font, color of its UI.

Improvement

Add an option for telephone reservation

Adding an option for preference setting that user can adjust the font and background color.





Disadvantages

5. Recoverability

Once Exception happened the app will crash, only restart the app can work.

6. Task conformance

Although satisfied most user's expectation, lack of remind function ahead of the schedule for the train depart.

Improvement

The system should consider that once exception happens, the app should go back to the previous state.

The app should provide remind function that will remind the user ahead of time for the train that is going to leave.



Shneiderman's Eight Golden Rules

- 1. Strive for consistency
- 2. Enable frequent users to use shortcuts
- 3. Offer informative feedback
- 4. Design dialogs to yield closure

- ✓ The app has Similar layout, command use as other apps.
- × No shortcuts for users.
- ✓ Inform the user once loading is finished.
- ✓ Once successfully reserved tickets, it will provide the order information.



Shneiderman's Eight Golden Rules

- 5. Offer error prevention and simple error handling
- 6. Permit easy reversal of actions
- 7. Support internal locus of control
- 8. Reduce short-term memory load

- ✓ Inform the user to input detailed information before buying the tickets.
- × No such function.
- ✓ Version update will not changing operation logic.
- ✓ Simple display of ticket information.

Work Division

Content

Advantages: Haotian Sang & Xiao Xie

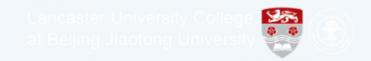
Disadvantages & Improvement Zhuohua Qi & Yuekai Yin

Shneiderman's Eight Golden Rules Chenhui Mao

PPT Chenhui Mao & Zhuohua Qi & Yuekai

Yin

Presentation: Haotian Sang & Xiao Xie





Individual Work

Name: Haotian Sang

ID Number: 16722022

Contribution: Analyzed the principle and structure/layout/navigation