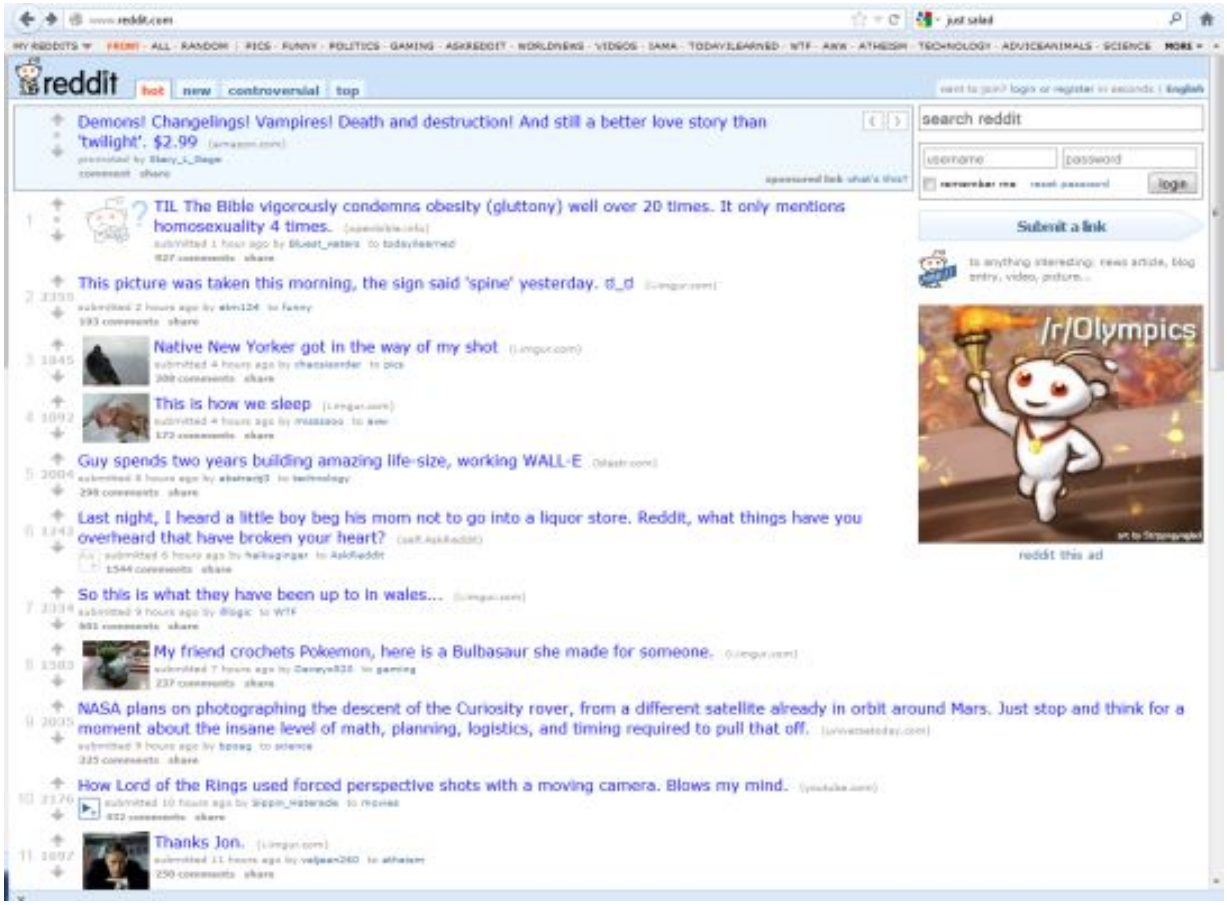
Generate Stage Deliverables

Group: #ieicommons
Team Members: Chopra, Datla, Hsiao, Mishra, Satarkar, Yang, Yeh

Demos:

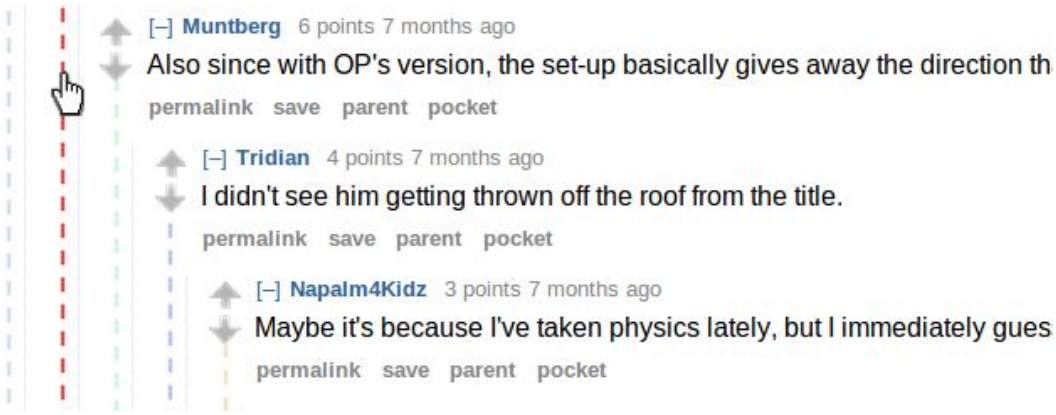
1) Display

The key part of the project is to develop a user experience to view, comment or address issues of personal interests. This is quite similar to how Reddit works. Reddit has been considered as the front page of the internet and has survived many years with their native and simple user experience. Other forums and social medias, like fb, a

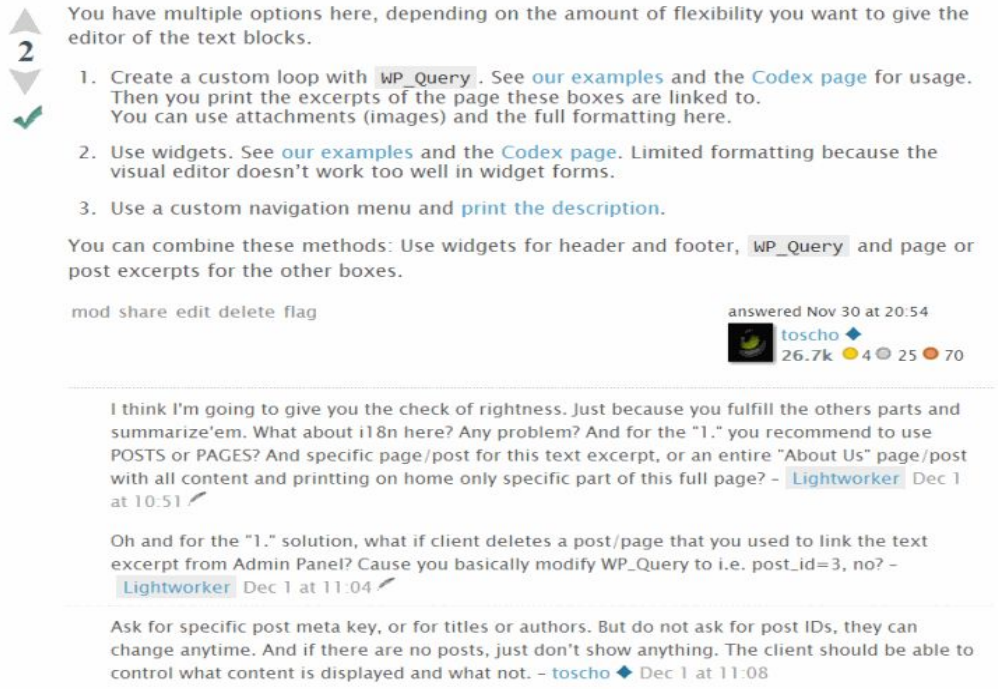


lso seem to be following the same format for commenting and liking posts. Prototypicality as a key factor in aesthetics and humans are not quick to learn new changes.

Reddit displays issues sorted based on popularity and relevance. Popularity is determined by the number of upvotes a particular issues gets or the current comments activity going on.



Users can comment on issues and other comments which is represented by a tree structure. The height of the tree can be restricted to make sure it doesn't look complicated on the big screen. Reddit allows the comment tree to grow but other sites like twitter and stack overflow don't. Twitter allows only one level of reply to an issue and any reply to a comment has to be on the same level as other comments.



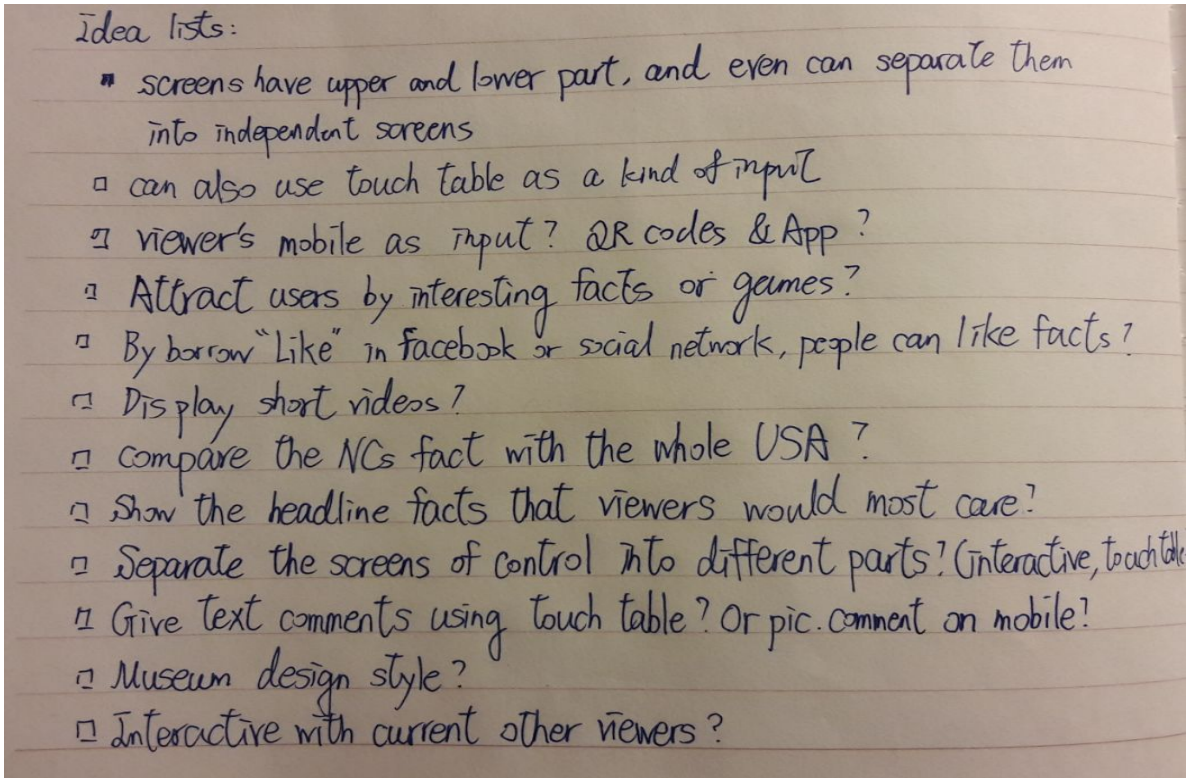
2) User Input

One way users can comment or share opinions on the big screen is to use the nearby touch table available in the “free expression tunnel”. It would be convenient if the users can use their mobile phones to express opinions. PayPal does a great job in integrating mobile phones for payment.

Paypal allows users with smartphones to scan the QR code on displayed products to confirm payment using your phone. It is more convenient to enter personal account details on your phone rather than on the big advertising screen. Same concept can be used to comment on an issues where the QR code would redirect to the web version of the issue.

Ideas

1)



2)

- It's better to put the mean screen in the front, the screen is hiding behind another wall and it's hard to notice.
- It's better to have some illustration about the interactions between the interface and user, people wouldn't know it has body interactions and they would normally assume it is a touch screen.
- Those little tables in front of the screen aren't playing much roles, I think it would be better to replace them with some little screens with some other hot topics.
- About the content, it might be better to not constrain it within just NC. It would have much more fun to include the comparison of NC and other states in US, and maybe some other hot topics.

3)

- Divide the big screen to panels to allow multiple users to use simultaneously. The screen is too big for one user. The outline of this division will be covered in crazy 8s.
- After selection a domain of interest, emerging issues to be displayed based on popularity and activity.
- Allowing users to upvote or downvote an issue or comment would help in determining the popularity.
- Allow users to comment using smart phones by scanning the QR code for the issue.

4)

- Input: add QR code or tell audiences that there are the “ideas area” that can input their thoughts (people don’t know it’s just beside this area).
- Shaking or jumping buttons: it’s hard to tell if it’s a touchscreen or not from distance, make buttons shake can stimulate people to touch it.
- Separate big screen into multiple sections: if people see someone interaction with the screen, they will want to interact with it too.
- Add images and video: more easily catch people’s attention than text.
- Add news: add weather and news about North Carolina (data mining on new, for example from “Technician” newspaper)
- Add hashtags or subtitles for each information and idea: right now, this system only category all the information to four categories. It’s hard to find specific information form it. We are familiar with hashtags and subtitle that summarize or category for us. Furthermore, it can be used on filter too.

5)

- Few video/audio clips can be played on a small screen at the entrance to attract the users.
- Include a feature like trending/hot topics that were viewed the most. This can be tracked with some click count mechanism.
- Allow snapchat like feature and display best pictures(pic of the day) submitted by users in a carousel/slideshow to increase user involvement
- Invite people to share their own ideas, facts, etc. and the best could be displayed in a seperate section(Hand Picked Posts)
- A news around the globe section can be introduced to cover burning topics.
- Smaller touch tables can have quiz/trivia/puzzles to generate more awareness about local happenings, NC State and NC in general. Winners of the day can be featured as well.
- A history section can also be included to let people know about the local history.
- Bluetooth functionality on smaller touch tables to listen facts and watch personalized videos

6)

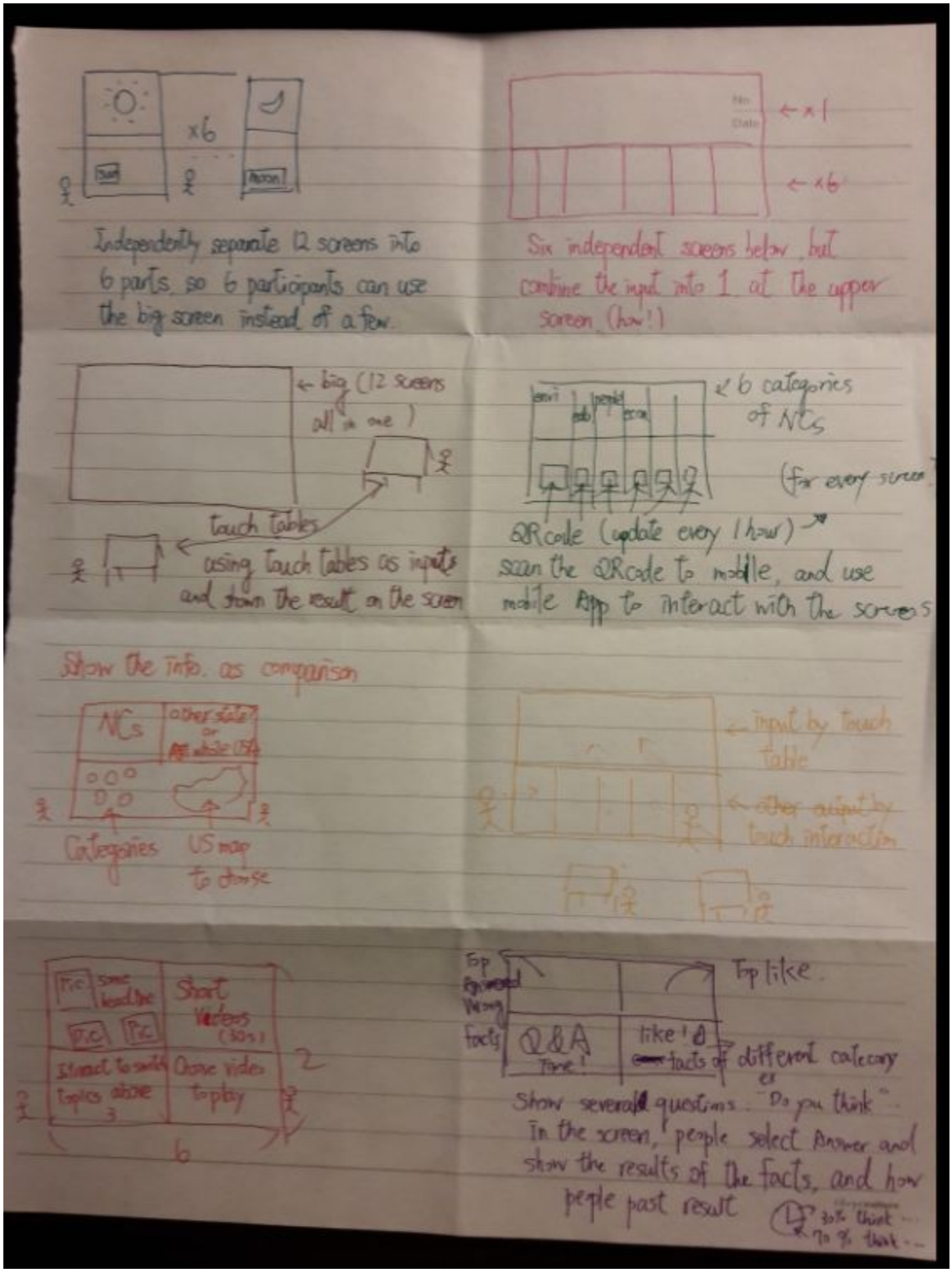
- The positioning of the screen is not optimum for enticing potential users into using the IEI interfaces. Maybe adjusting the positioning would help increase the user base.
- One big screen is good for getting people's attention, but the surface may be a bit too big for one user. Maybe multiple smaller screens is the way to go.
- Allow users to react to the posts, like the reddit upvote downvote mechanism for example.
- Allow users to access the information at a remote place, so that increased user interaction will help get more users.
- Show NC to the people from all around the world, including facts, history and culture.
- Also allow people to have interactions with other cultures, by maybe showing activities of other cultures all around NC.
- Get user opinions, and allow users to make their own posts

7)

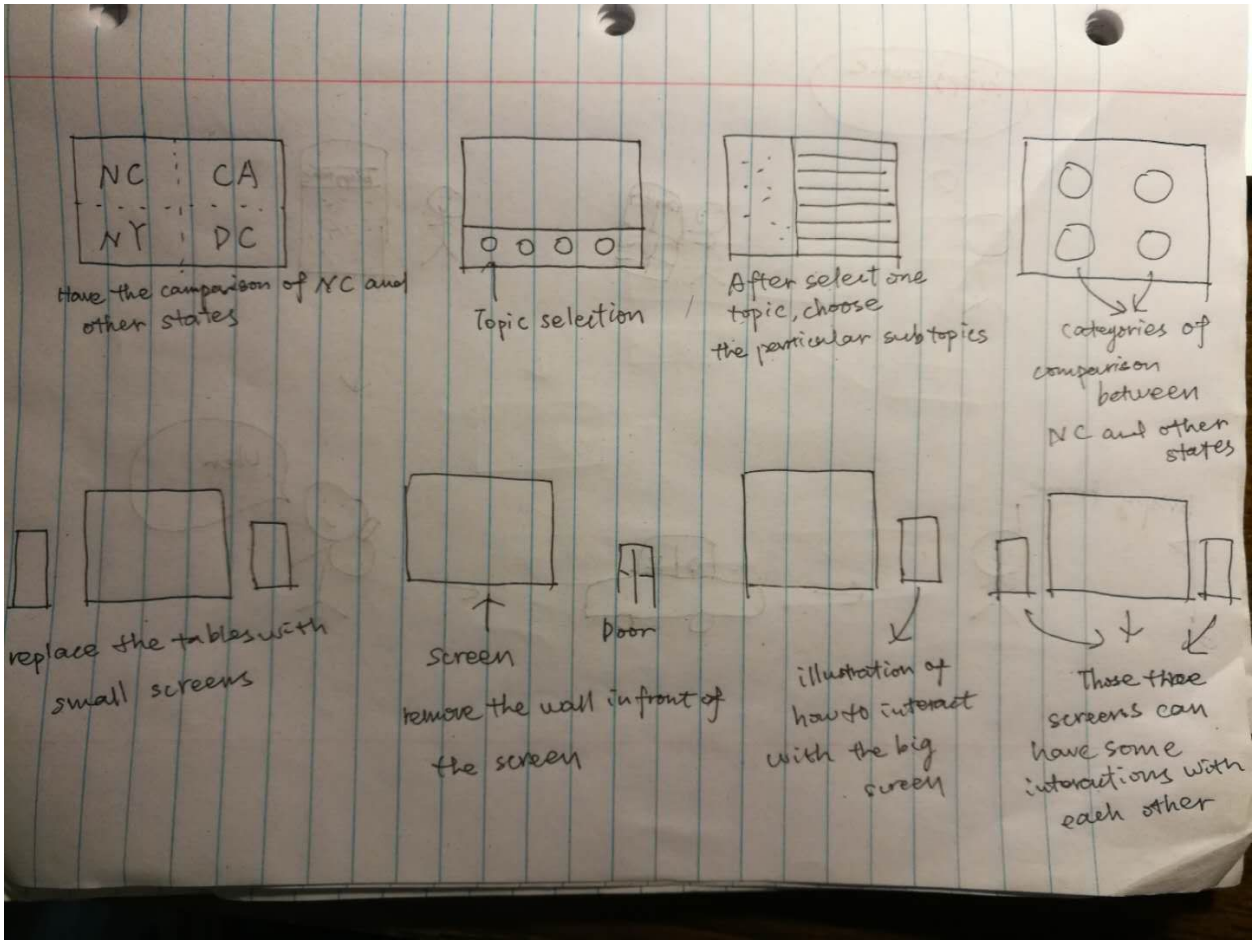
- The big screen is the attention-grabbing part of the IEI sections, so it must show the information that can make people checkout this section. The information can be
    - Comments of the people with their photographs in the background.
    - Steps for getting your image or comment up on the screen.
- Replacing proximity sensors with the touch screen display.
- Displaying multiple sections of the data at once on the big screen so that multiple users can interact with it.
- Showing some attention-grabbing (but short) information on the pulse display. This information should encourage user to check the IEI section out.
- Show multiple options of getting the user's comments on the display
    - Either guide the user to the touch tables in the adjacent sections, or
    - Show a link or QR code using which the user can send in their comments.

Variations (Crazy8s)

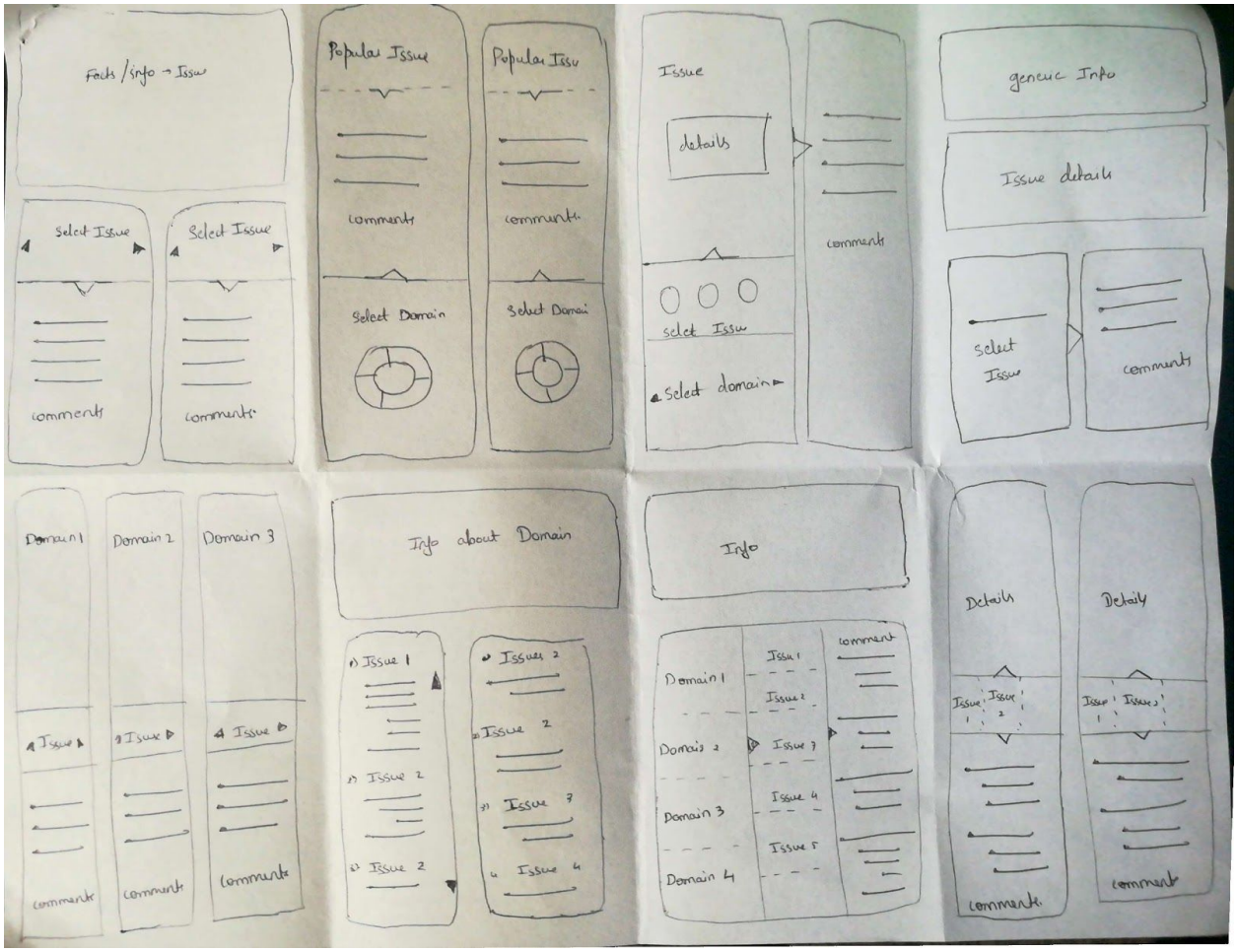
1)



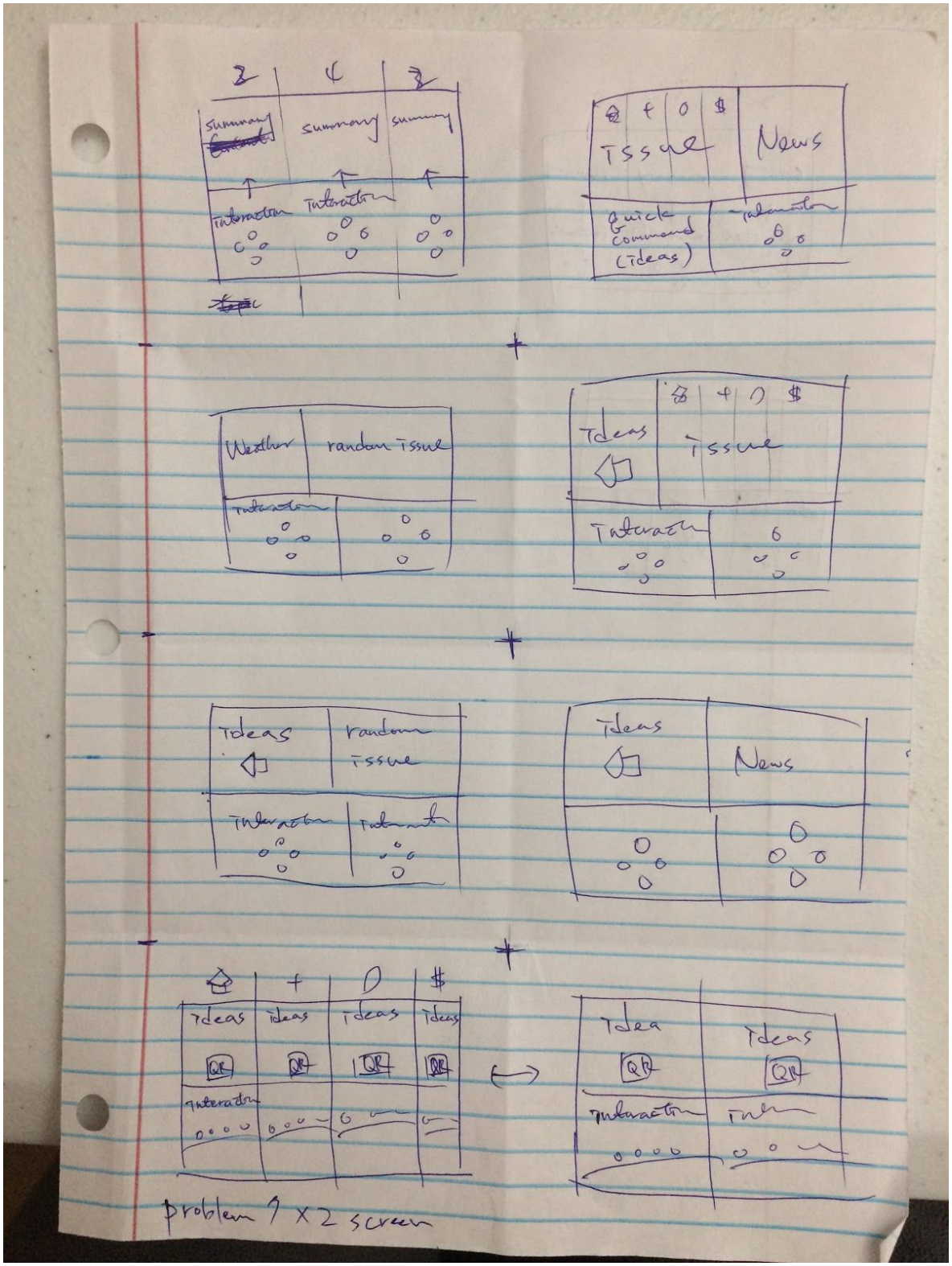
2)


NC
CA
NY
DC
Have the campaison of NC and other states
Topic selection
After select one topic, choose the particular subtopics
categories of comparison between NC and other states
replace the tables with small screens
Screen
remove the wall in front of the screen
Door
illustration of how to interact with the big screen
Those three screens can have some interactions with each other

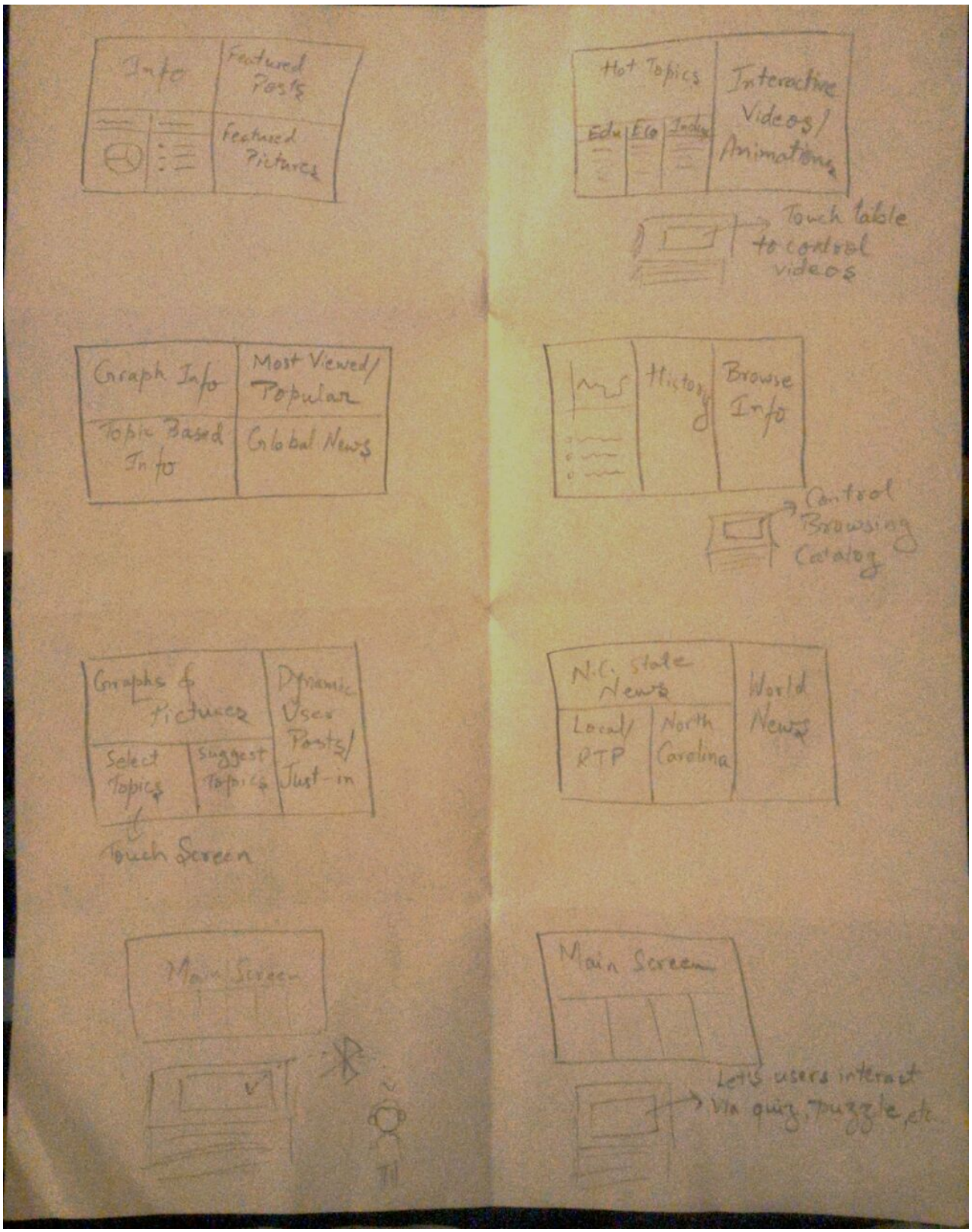
3)


Facts / info → Issue
Select Issue
comments
Select Issue
comments
Popular Issue
comments
Select Domain
Popular Issue
comments
Select Domain
Issue
details
comments
select Issue
Select domain
generic Info
Issue details
Select Issue
comments
Domain 1
Domain 2
Domain 3
Issue
Issue
Issue
comments
comments
comments
Info about Domain
Issue 1
Issue 2
Issue 2
Issue 2
Issue 2
Issue 7
Issue 4
Info
Domain 1
Domain 2
Domain 3
Domain 4
Issue 1
Issue 2
Issue 7
Issue 4
Issue 5
comment
Details
Details
comments
comments

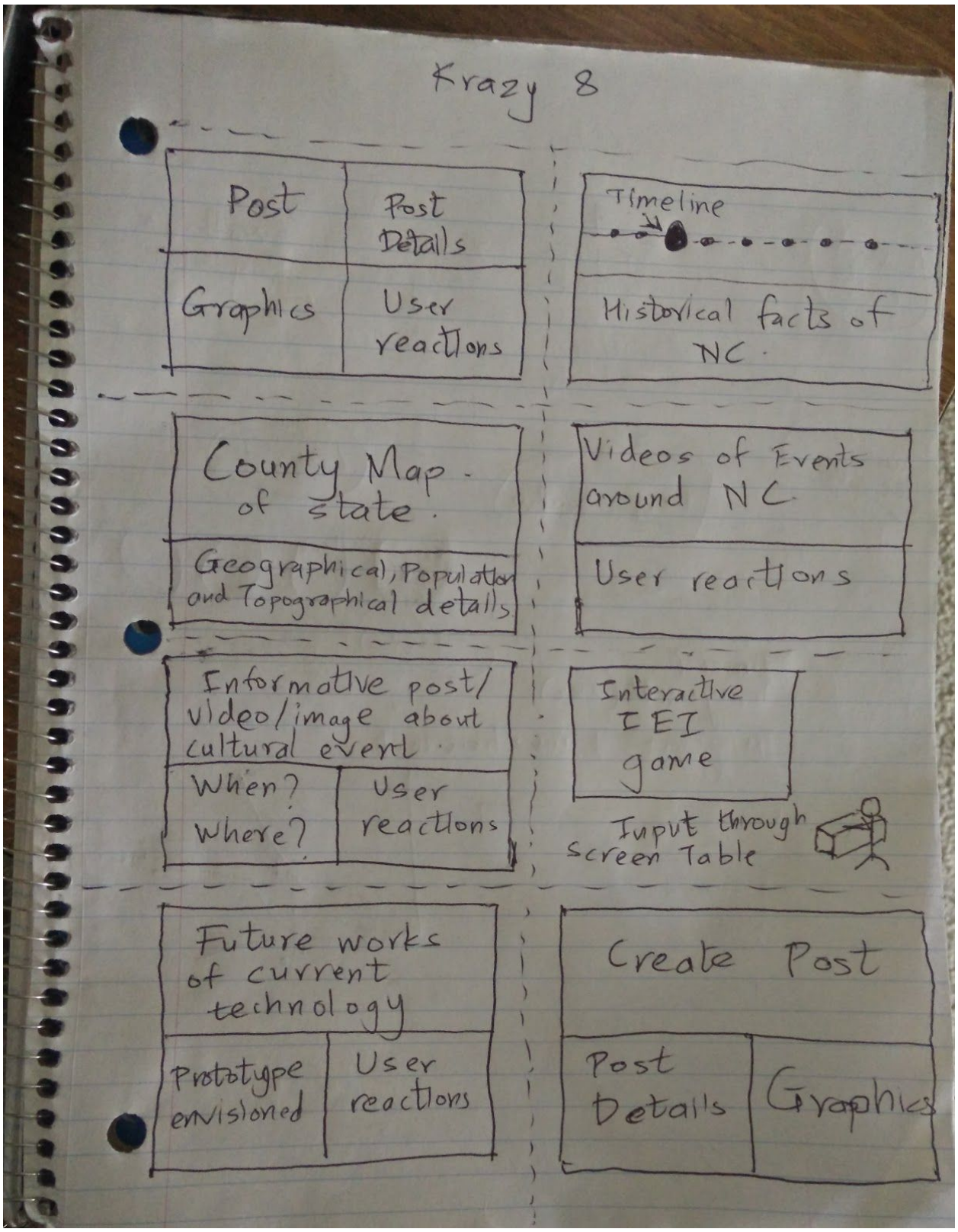
4)


summary
summary
summary
Interaction
Interaction
Tssue
News
Quick Command (Ideas)
Weather
random issue
Ideas
issue
Ideas
random issue
Ideas
News
Ideas
Ideas
Ideas
Ideas
Idea
Ideas
problem 1 x 2 screen

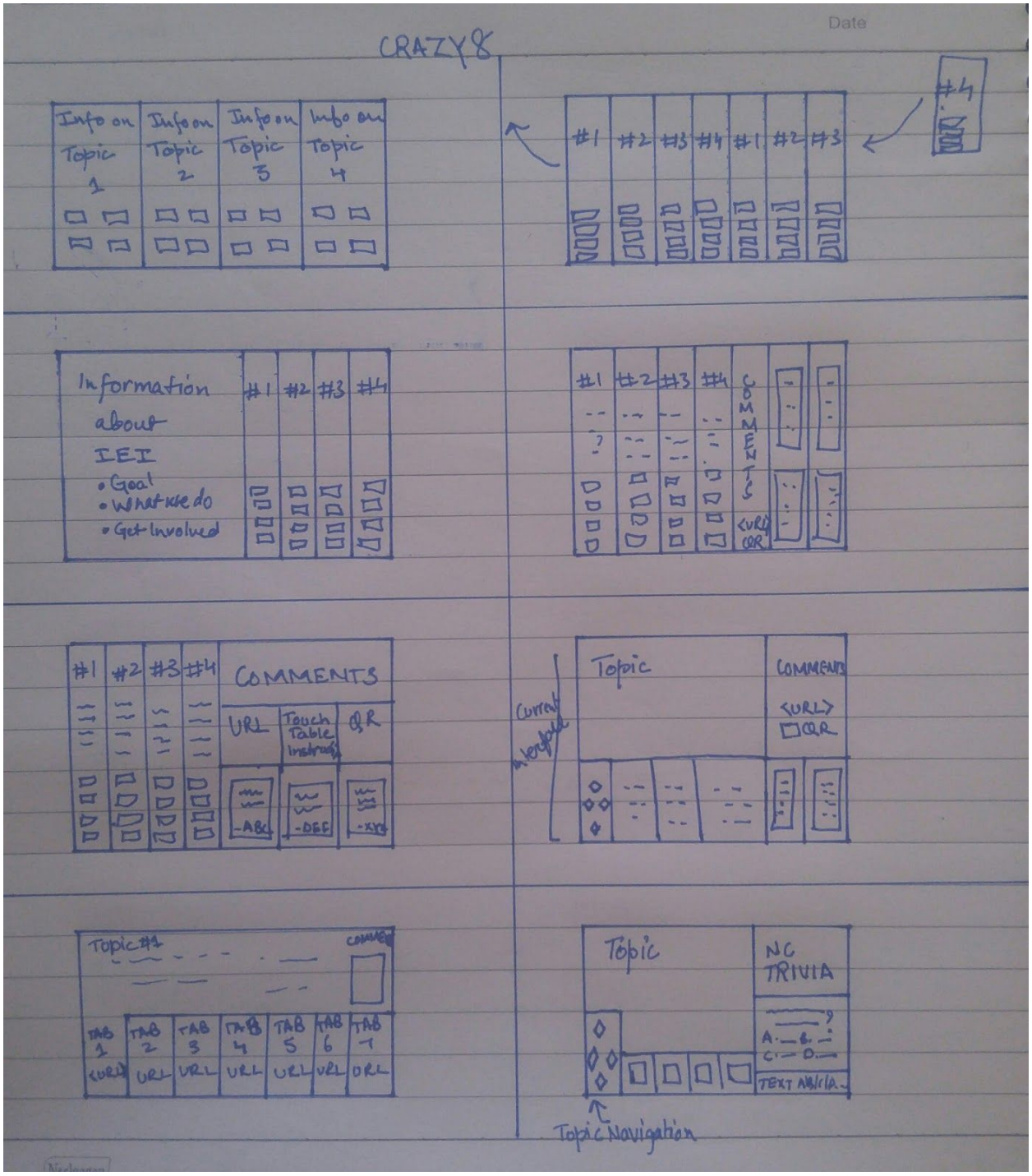
5)


Info
Featured Posts
Featured Pictures
Hot Topics
Edu
Edu
Indus
Interactive Videos/ Animations
Touch table to control videos
Graph Info
Most Viewed/ Popular
Topic Based Info
Global News
History
Browse Info
Control Browsing Catalog
Graphs & Pictures
Dynamic Users Posts/ Just-in
Select Topics
Suggest Topics
Touch Screen
N.C. State News
Local/ RTP
North Carolina
World News
Main Screen
Main Screen
Lets users interact via quiz, puzzle, etc

6)

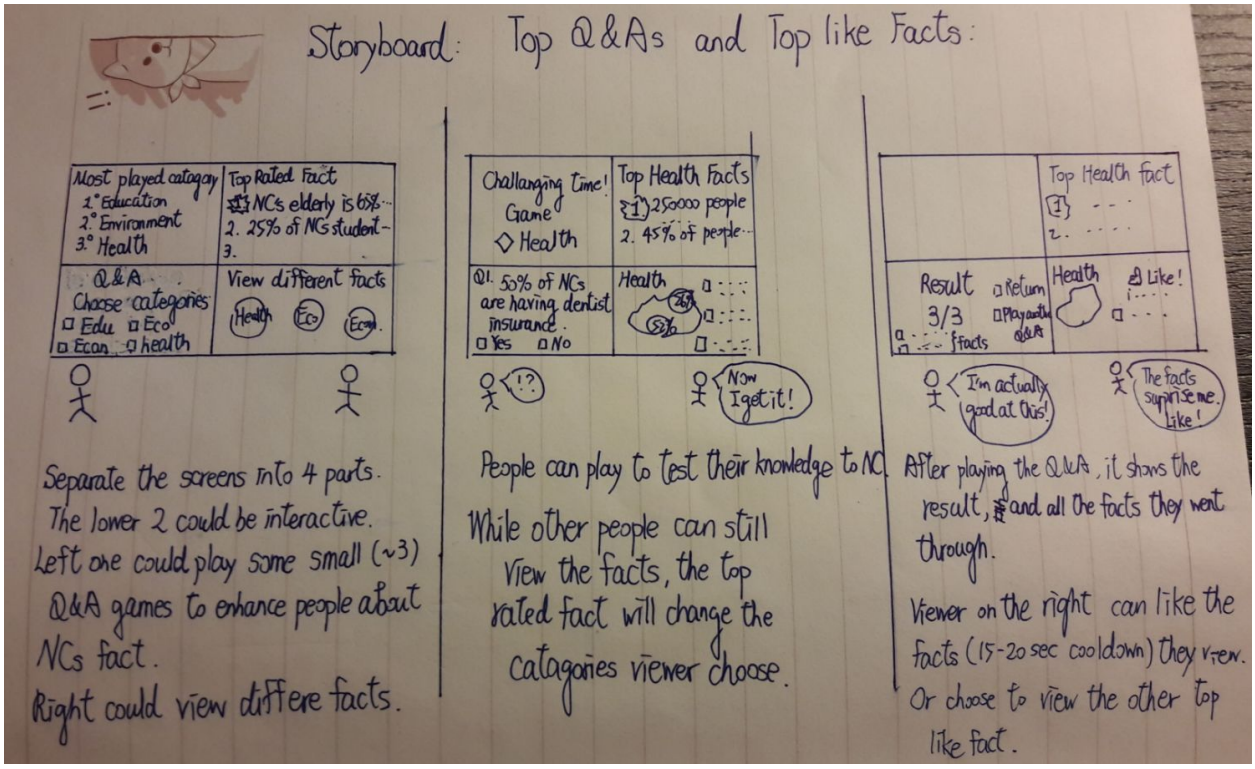

Krazy 8
Post
Post Details
Graphics
User reactions
Timeline
Historical facts of NC
County Map of state
Geographical, Population and Topographical details
Videos of Events around NC
User reactions
Informative post/ video/image about cultural event
When? Where?
User reactions
Interactive IEI game
Input through screen Table
Future works of current technology
Prototype envisioned
User reactions
Create Post
Post Details
Graphics

7)

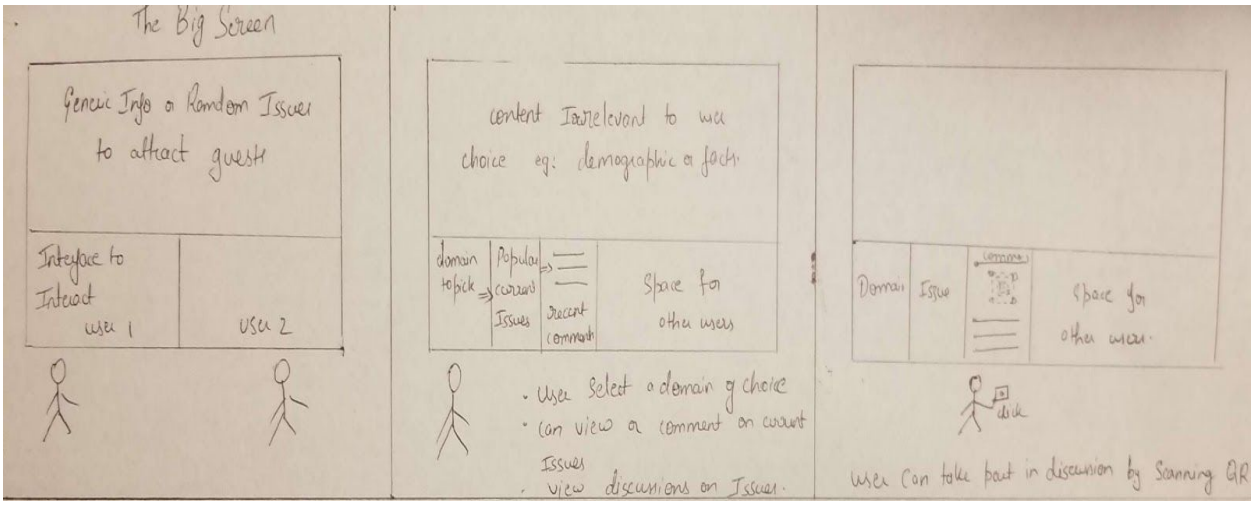

CRAZY8
Date
Info on Topic 1
Info on Topic 2
Info on Topic 3
Info on Topic 4
#1 #2 #3 #4 #1 #2 #3
#4
Information about IEI
• Goal
• What we do
• Get Involved
#1 #2 #3 #4
#1 #2 #3 #4 COMMENTS
COMMENTS
URL
Touch Table Instruct
QR
-ABC
-DEF
-XYZ
Topic
COMMENTS
<URL>
QR
Current template
Topic #1
TAB 1
TAB 2
TAB 3
TAB 4
TAB 5
TAB 6
TAB 7
URL
Topic
NC TRIVIA
A. B.
C. D.
TEXT ANALYSIS
Topic Navigation

Storyboards

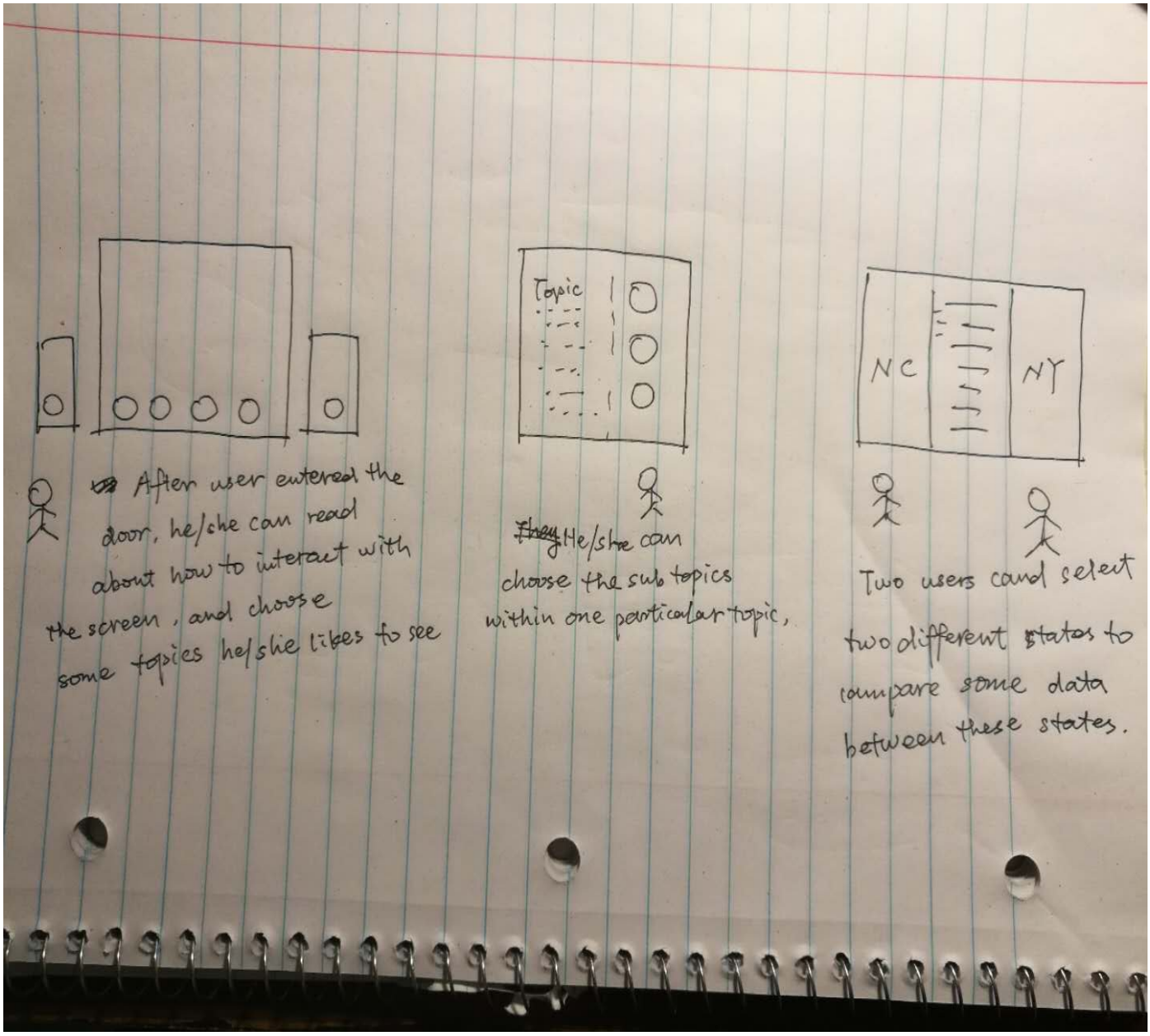
1)



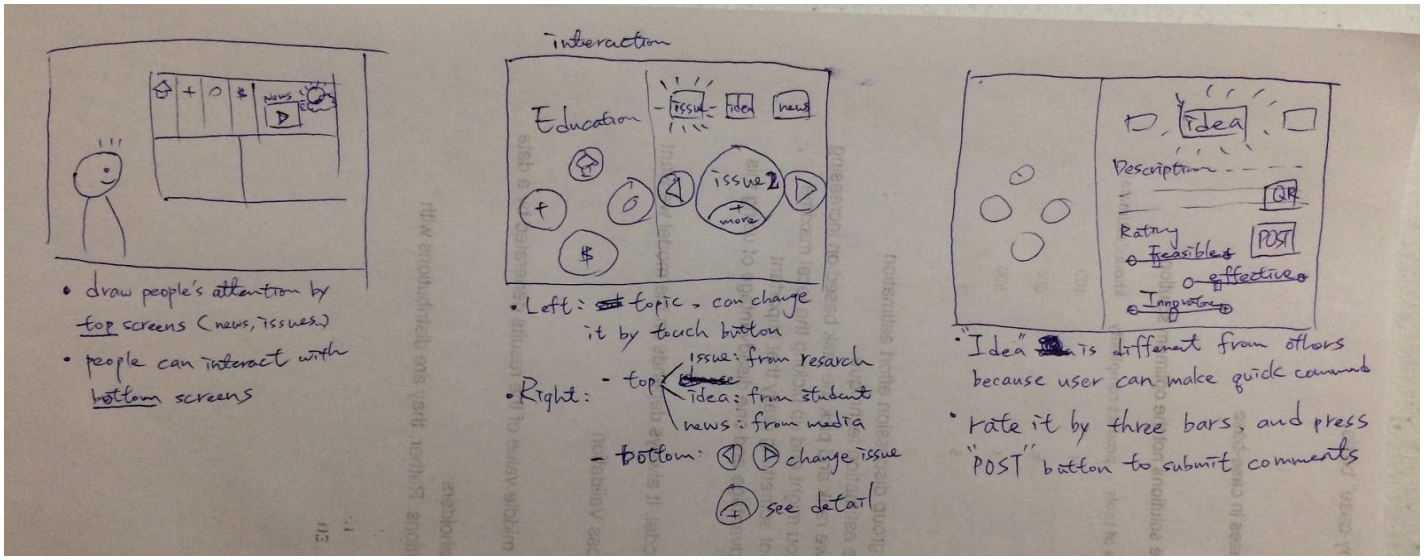
2)



3)


Topic
NC
NY
After user entered the door, he/she can read about how to interact with the screen, and choose some topics he/she likes to see
He/she can choose the sub topics within one particular topic.
Two users could select two different states to compare some data between these states.

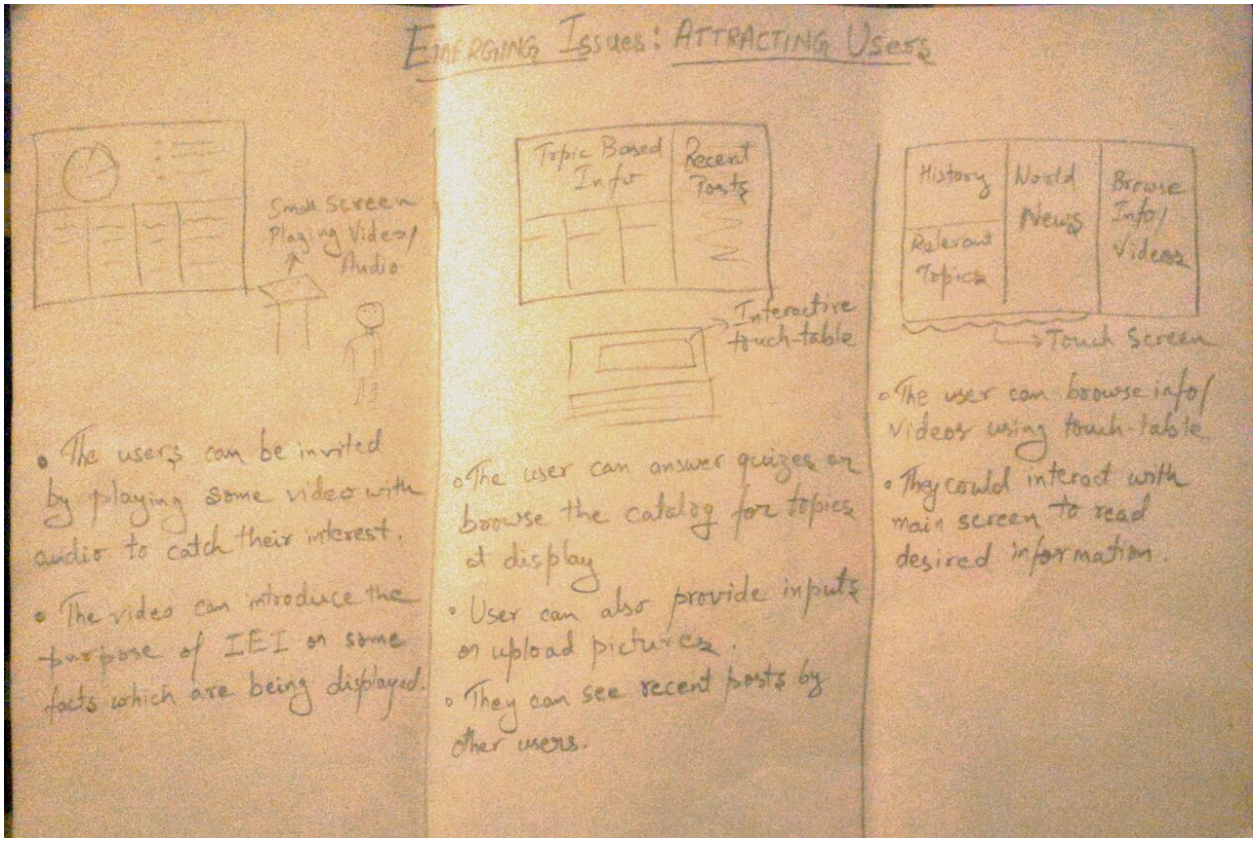
4)



interaction
Education
issue
idea
news
issue2
more
• draw people's attention by top screens (news, issues..)
• people can interact with bottom screens
• Left: topic, can change it by touch button
• Right: - top: issue: from resarch
idea: from student
news: from media
- bottom: change issue
see detail
Idea
Description
QR
Rating
Feasible
effective
Innovative
POST
• "Idea" is different from others because user can make quick command
• rate it by three bars, and press "POST" button to submit comments

5

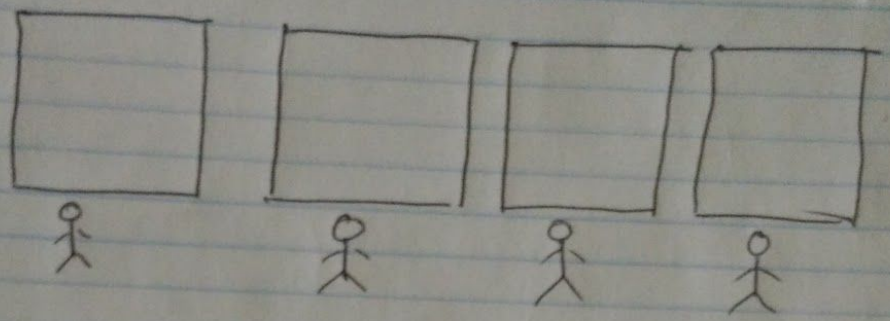
5)



EMERGING Issues: ATTRACTING Users
Small Screen Playing Video/ Audio
• The users can be invited by playing some video with audio to catch their interest.
• The video can introduce the purpose of IEI on some facts which are being displayed.
Topic Based Info
Recent Posts
Interactive touch-table
• The user can answer quizes or browse the catalog for topics at display
• User can also provide inputs on upload pictures.
• They can see recent posts by other users.
History
Relevant Topics
World News
Browse Info/ Videos
Touch Screen
• The user can browse info/ videos using touch-table
• They could interact with main screen to read desired information.

6)

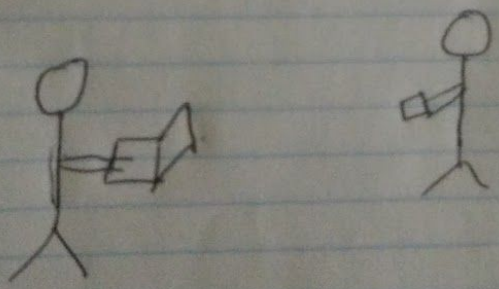
Storyboards.



Get multiple screens for simultaneous user interactions.

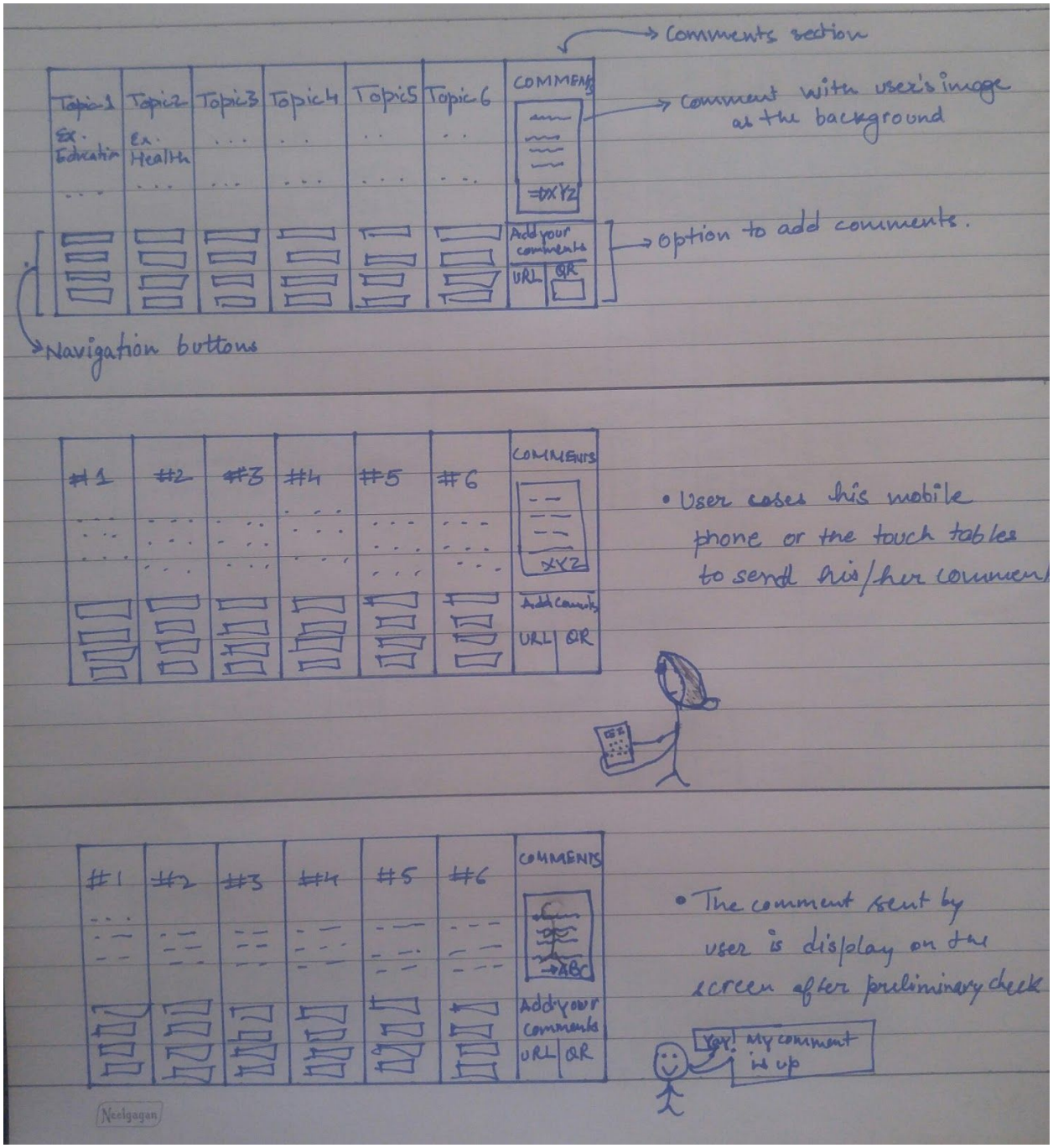
① Trending	② History	③ Geography	④ Foreign Culture
⑤ News	⑥ Awareness	⑦ Leisure	⑧ Suggestions

Show multiple sections for user to choose from, and interact.



Provide remote access options to user.

7)


Comments section
Topic 1
Ex. Education
Topic 2
Ex. Health
Topic 3
Topic 4
Topic 5
Topic 6
COMMENTS
Comment with user's image at the background
=DXYZ
Add your comments
URL
QR
option to add comments.
Navigation buttons
#1
#2
#3
#4
#5
#6
COMMENTS
XYZ
Add your comments
URL
QR
• User uses this mobile phone or the touch tables to send his/her comment
#1
#2
#3
#4
#5
#6
COMMENTS
ABC
Add your comments
URL
QR
• The comment sent by user is display on the screen after preliminary check
Yay! My comment is up
Neelgagan