

LYU 1301

MOBILE APPLICATION USING NFC

WU HAN NING HENRY(1155017408)

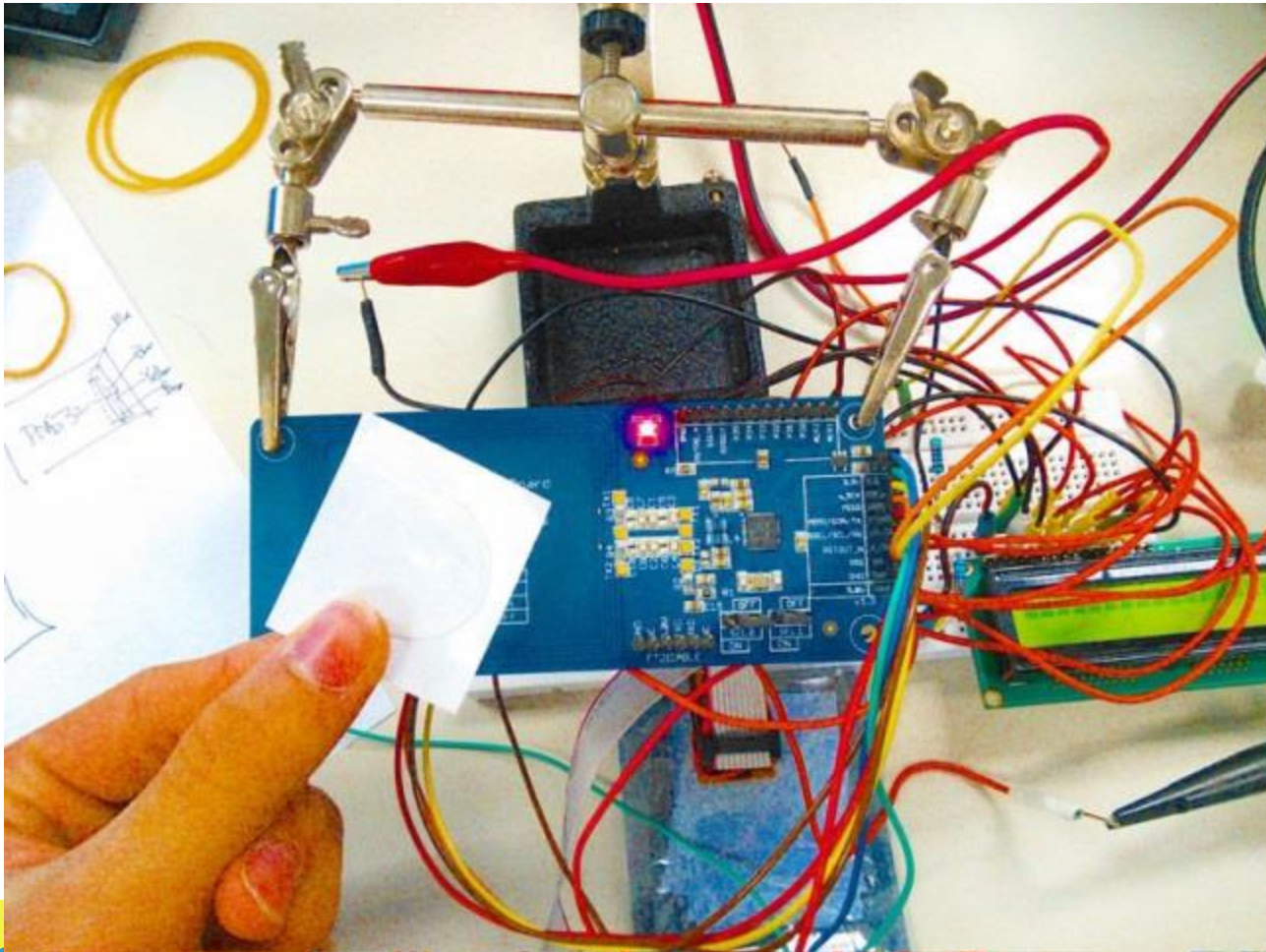
CHAN SIN YEE(1155006665)

NFC_(RECAP)



22/4/2014

NFC_(RECAP)



22/4/2014

LYU1301 MOBILE APPLICATION USING NFC

CUCOM_(RECAP)

Cucom= Chinese University Communication

Social App

- To comment on physical environment in CUHK



CUCOM_(RECAP)

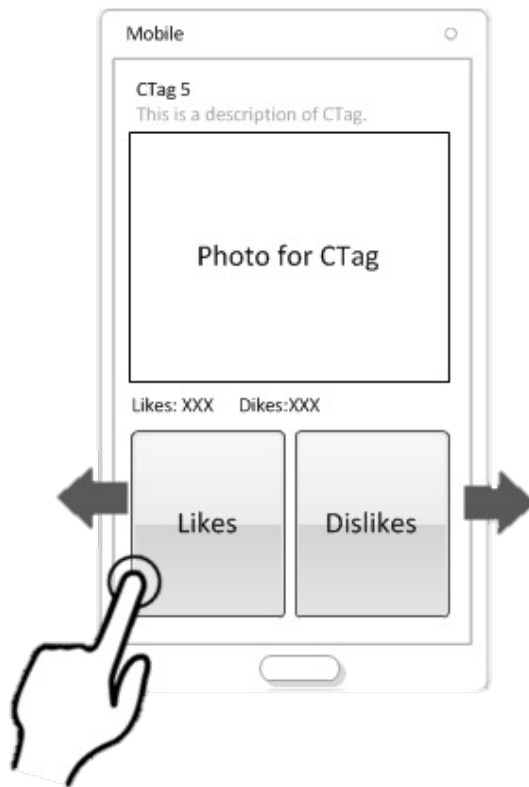


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CUCOM_(RECAP)

Voting

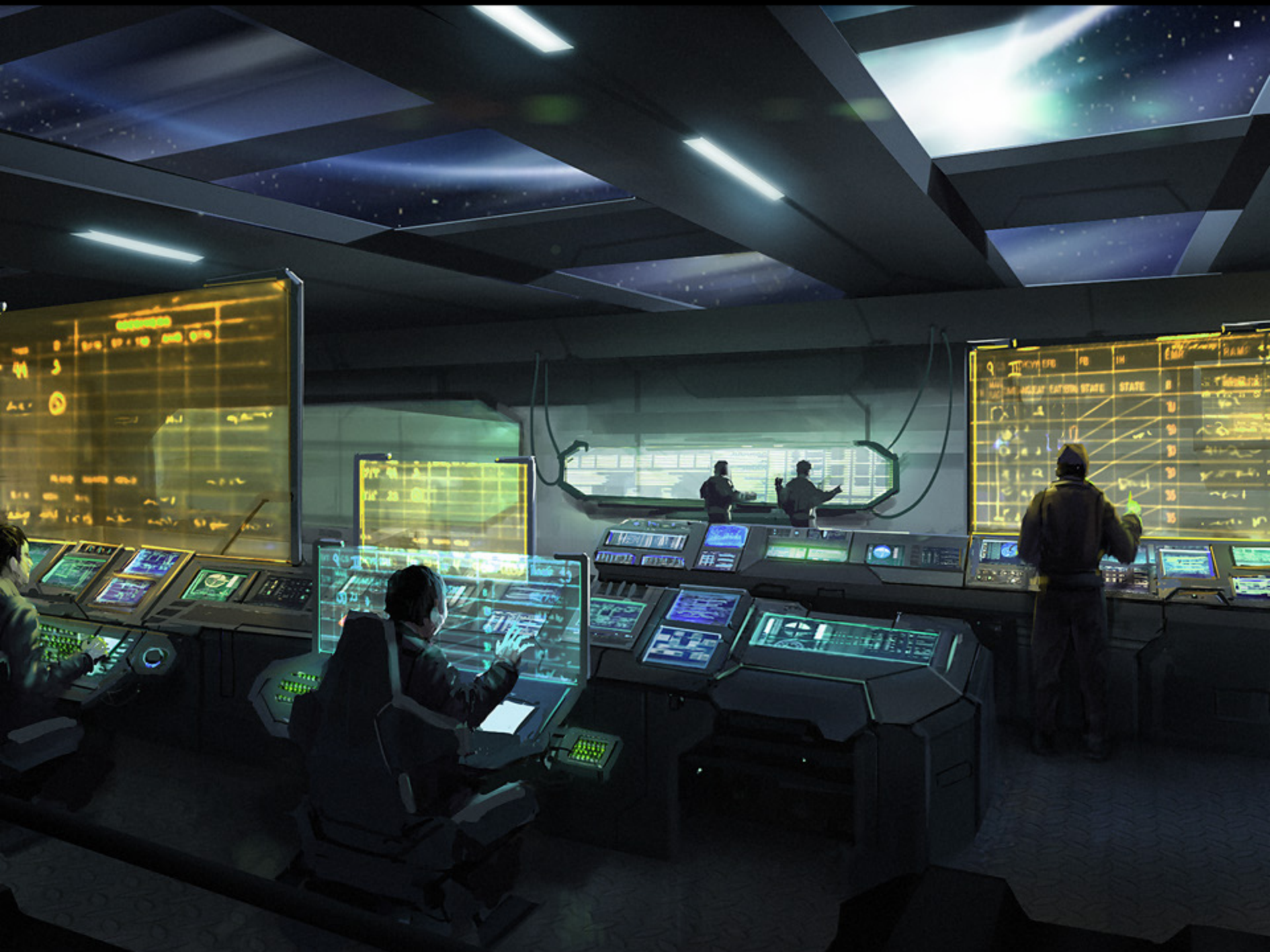


Commenting



CAN WE DO MORE?

22/4/2014



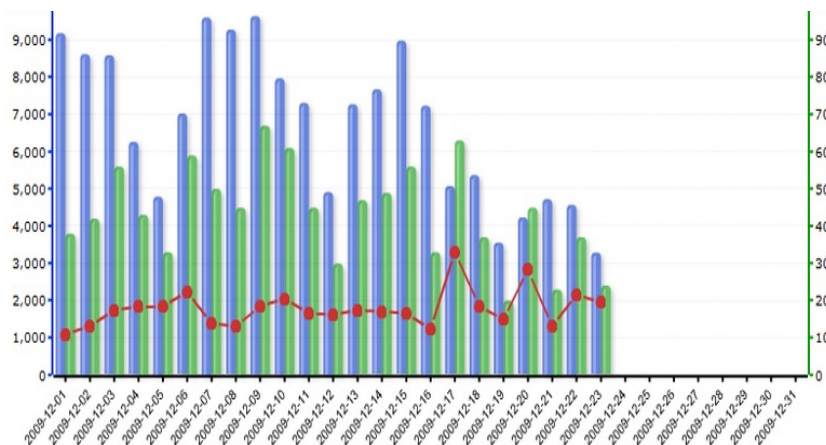
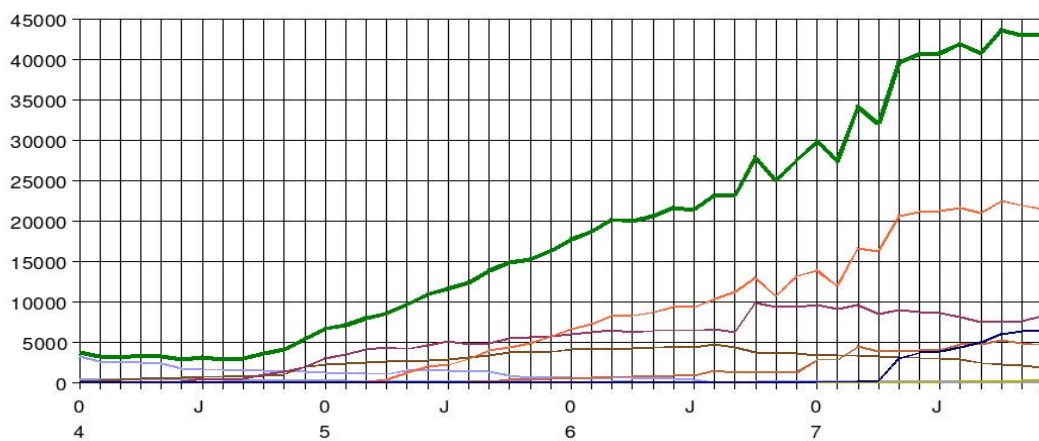
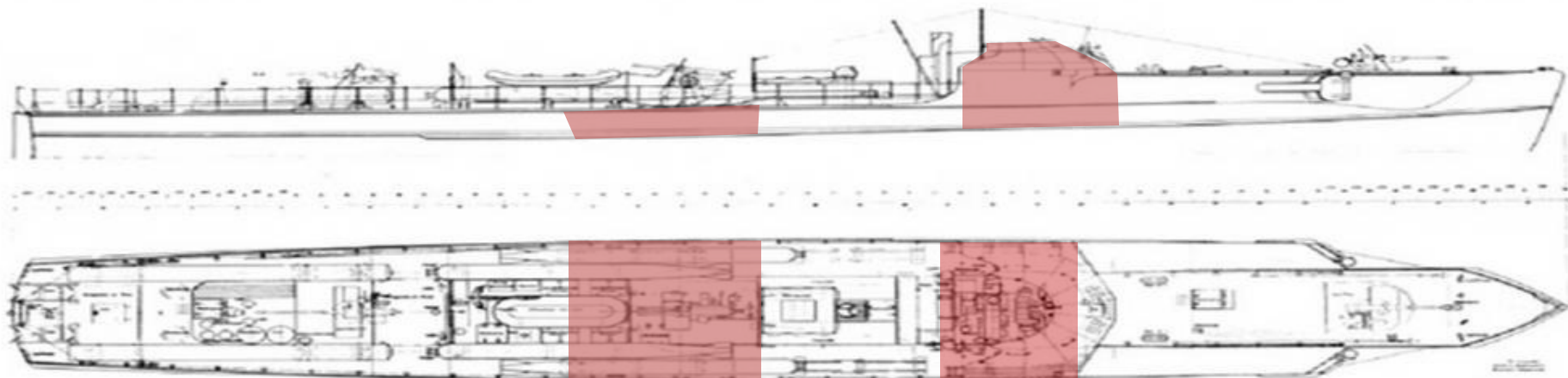






MASS 2
XBOX 360







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22/4/2014

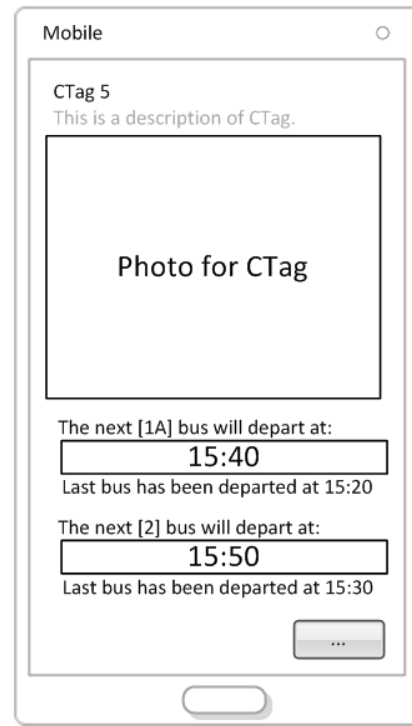
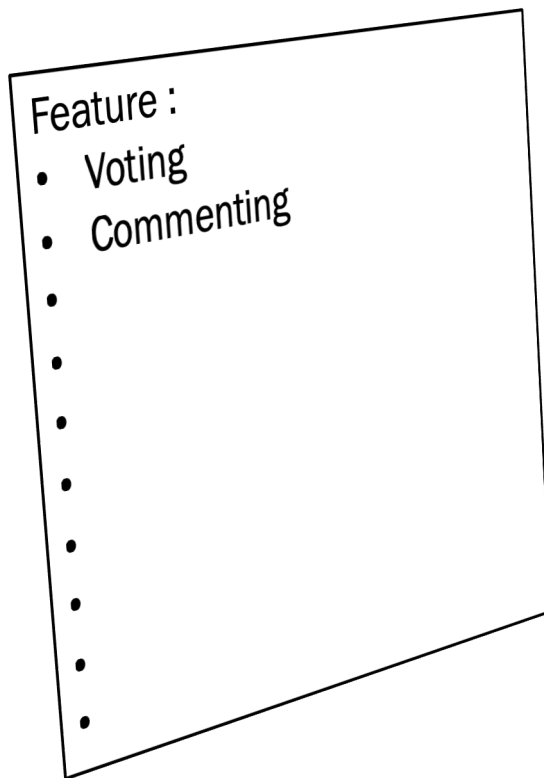
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22/4/2014

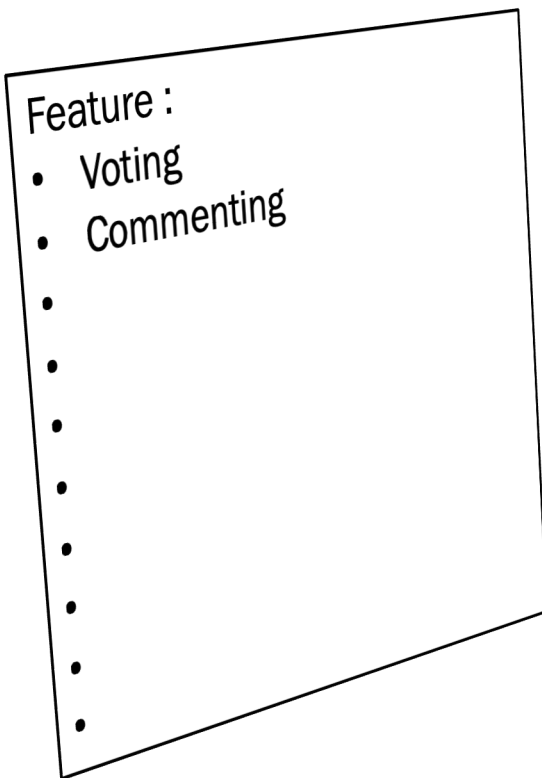
LYU1301 MOBILE APPLICATION USING NFC

Bus Schedule





Bus Schedule





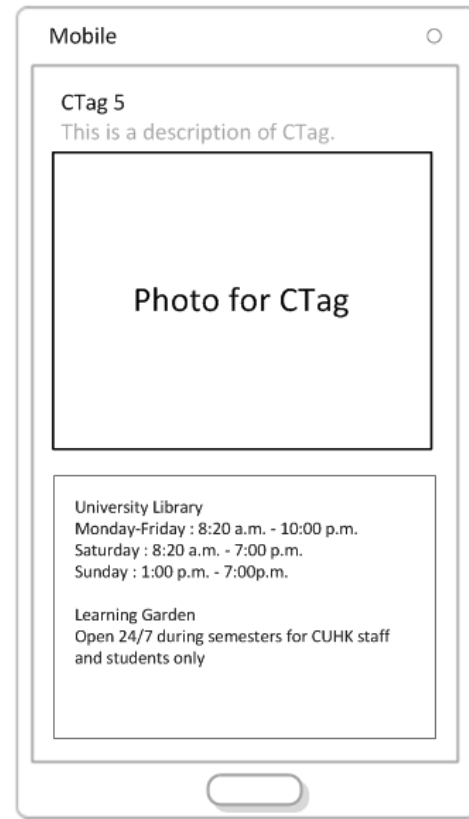
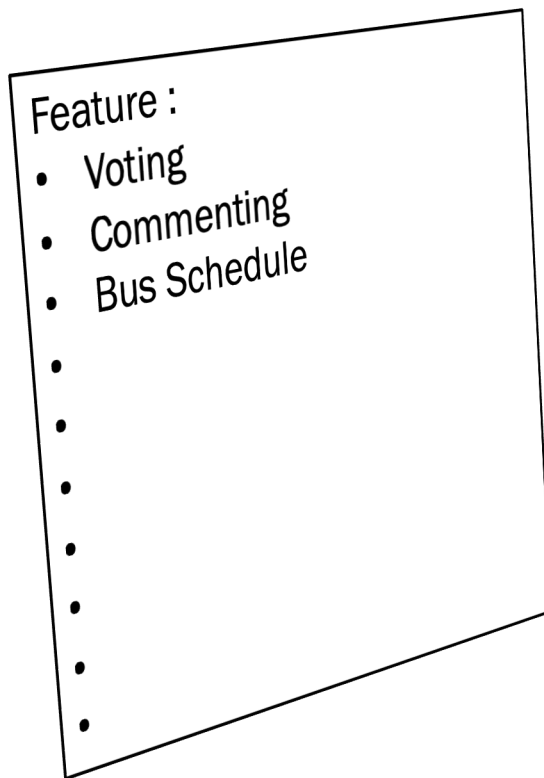
Feature :

- Voting
- Commenting
- Bus Schedule
-
-
-
-
-
-
-





Text





Text

- Feature :
- Voting
 - Commenting
 - Bus Schedule
 -
 -
 -
 -
 -
 -
 -



Feature :

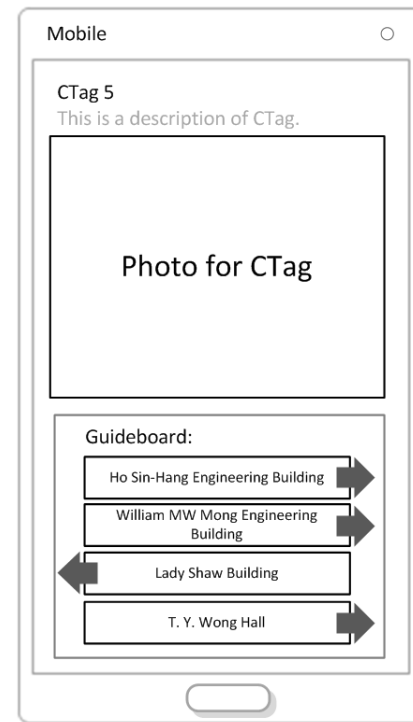
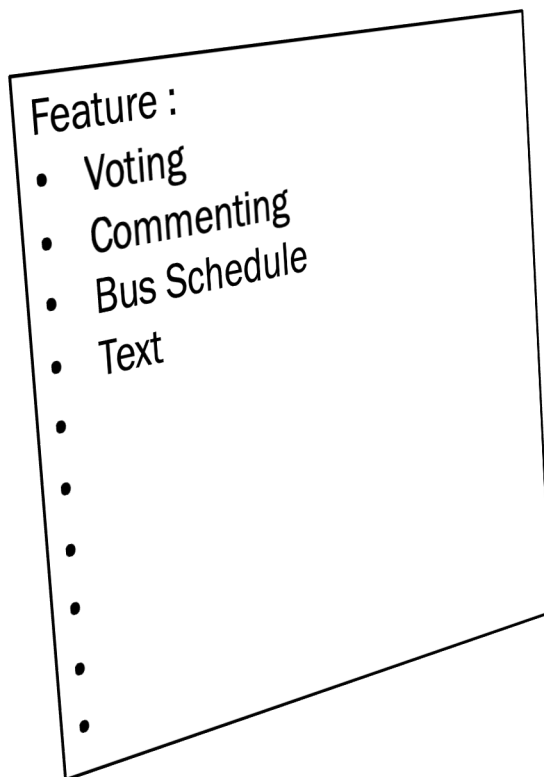
- Voting
- Commenting
- Bus Schedule
- Text
-
-
-
-
-
-



22/4/2014

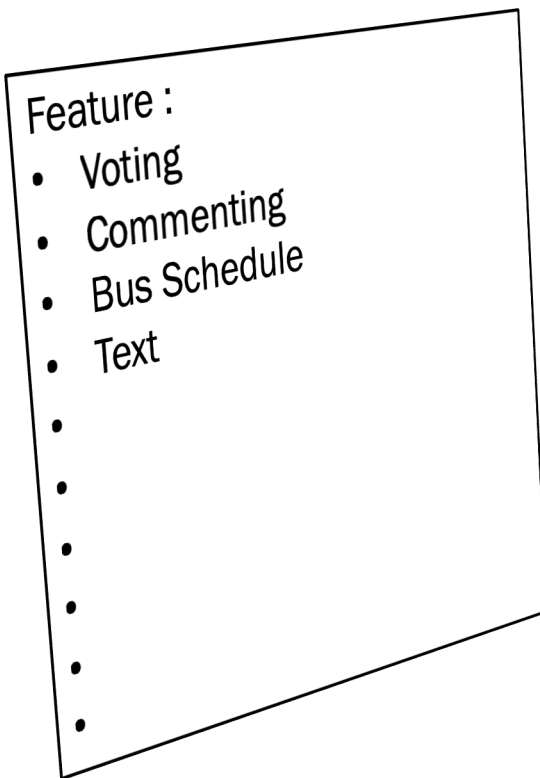


Guideboard





Guideboard



Feature :

- Voting
- Commenting
- Bus Schedule
- Text
- Guideboard
-
-
-
-
-





Reporting

Feature :

- Voting
- Commenting
- Bus Schedule
- Text
- Guideboard
-
-
-
-
-

Mobile

Ctag 5
This is a description of CTag.

Photo for CTag

☐ Malfunctioned

☒ No A4 papers

☐ No ink

☐ Others :



Reporting

Feature :

- Voting
- Commenting
- Bus Schedule
- Text
- Guideboard

-
-
-
-
-

Feature :

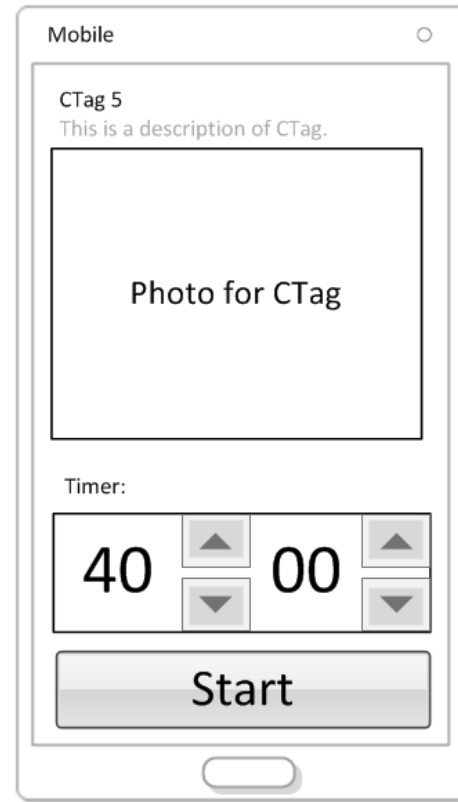
- Voting
- Commenting
- Bus Schedule
- Text
- Guideboard
- Reporting



Feature :

- Voting
- Commenting
- Bus Schedule
- Text
- Guideboard
- Reporting
-
-
-
-

Timer



Mobile

Ctag 5
This is a description of CTag.

Photo for CTag

Timer:

40 00

Start



Timer

Feature :

- Voting
- Commenting
- Bus Schedule
- Text
- Guideboard
- Reporting

-
-
-
-

Feature :

- Voting
- Commenting
- Bus Schedule
- Text
- Guideboard
- Reporting
- Timer
-
-
-



百萬零一夜

香港中文大學五十周年校慶匯演

閉上眼，想像我們的百萬大道。
圓形館的白牆變了天幕，投影部的燈光，重現我們走過的半世紀。
烽火台上，他們幻化為切運天橋的巨手，柔勁送風，燃起中大人心內的一團火。
你以為百萬大道只是一條過道？這一個晚上，她閃耀如銀河。
五十年來，山城從未看過的一夜。
張開眼，百萬零一夜，惟有繁星，每一點光芒，來自你，來自我。

2013年12月7日(星期六)
時間：晚上8時至9時30分
+7時30分開場入座
地點：大學本部烽火台
主持：6號@rubberband
應：急子
演出單位：中大合唱團、中大dancers、新亞國樂會、
匡歌中人、海潮、魔術三、Elle Lam、Melina Tsui...
精采節目不能盡錄，詳情請留意：
http://www.50.cuhk.edu.hk/zh_tw/50anniversary



22/4/2014



Feature :

- Voting
- Commenting
- Bus Schedule
- Text
- Guideboard
- Reporting
- Timer
-
-
-

Smart Poster





Smart Poster

Feature :

- Voting
- Commenting
- Bus Schedule
- Text
- Guideboard
- Reporting
- Timer
-
-
-



Feature :

- Voting
- Commenting
- Bus Schedule
- Text
- Guideboard
- Reporting
- Timer
- Smart Poster
-
-

Recruitment Talk by



i-CABLE Communications Limited

Date: 13 March, 2014 (Thursday)

Time: 4:00-5:00pm

Venue: Mong Man Wai Building LT2

Job Openings

Broadcasting & Engineering Operations Department

Engineer, Technical Operations

- Supporting and executing HD broadcasting platform and enhancing production archive system
- Managing media asset
- Facilitating maintenance and ensuring equipments up to TV broadcasting standards
 - Good programming and database knowledge, such as C++, Java, Oracle, SQL, VB scripting, Java scripting, etc.
 - Experience in administration of Solaris, Linux platform, Windows NT or higher will be an advantage
 - Basic knowledge of MPEG family standards on TV production is preferred

Assistant Engineer, MCR

- Developing new system in HD broadcasting platform and production archive system
- Managing media asset
- Maintaining and ensuring equipment up to TV broadcasting standards
 - Good programming knowledge in C++, Java scripting and database servers will be an advantage
 - Basic knowledge of TV or video production is preferred

Technician, Media Traffic Centre

- Performing on-air and server operation
- Handling programme material fill-in, recording, tape compilation and transfer
- Ensuring the quality of tapes and files to meet broadcast standard
 - Basic knowledge in PC applications

Registration and Details:

<http://pip.cintec.cuhk.edu.hk/events/>



Placement and Internship Programme (PIP)

Career and Placement Task Force
Faculty of Engineering, The Chinese University of Hong Kong



22/4/2014

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Feature :

- Voting
- Commenting
- Bus Schedule
- Text
- Guideboard
- Reporting
- Timer
- Smart Poster
-
-

Registration



Mobile

CTag 5
This is a description of CTag.

Photo for CTag

Date : 13 March 2013
Time : 4:30pm
Location : LT1, LSK Building

SID :

Registration



Registration

Feature :

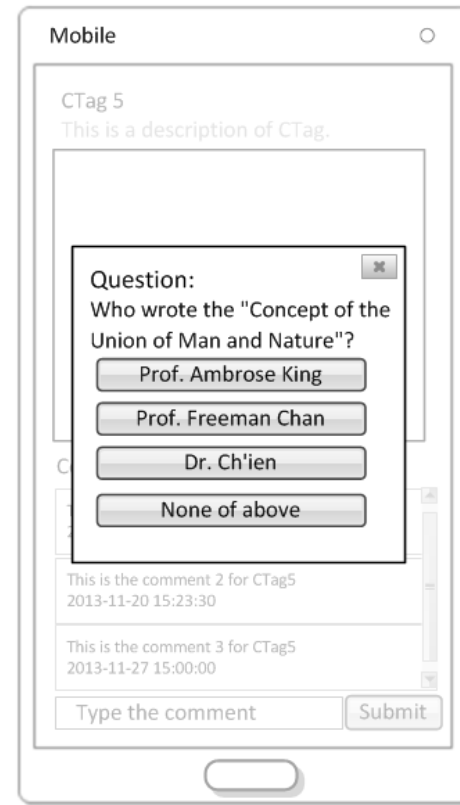
- Voting
- Commenting
- Bus Schedule
- Text
- Guideboard
- Reporting
- Timer
- Smart Poster
-
-



Quiz

Feature :

- Voting
- Commenting
- Bus Schedule
- Text
- Guideboard
- Reporting
- Timer
- Smart Poster
- Registration
-





Quiz

Feature :

- Voting
- Commenting
- Bus Schedule
- Text
- Guideboard
- Reporting
- Timer
- Smart Poster
- Registration
-



Feature :

- Voting
- Commenting
- Bus Schedule
- Text
- Guideboard
- Reporting
- Timer
- Smart Poster
- Registration
- Quiz



Feature :

- Voting
- Commenting
- Bus Schedule
- Text
- Guideboard
- Reporting
- Timer
- Smart Poster
- Registration
- Quiz

Feature :

- Voting
- Commenting
- Bus Schedule
- Text
- Guideboard
- Reporting
- Timer
- Smart Poster
- Registration
- Quiz



Feature :

- Voting
- Commenting
- Bus Schedule
- Text
- Guideboard
- Reporting
- Timer
- Smart Poster
- Registration
- Quiz



Feature :

- Voting
- Commenting
- Bus Schedule
- Text
- Guideboard
- Reporting
- Timer
- Smart Poster
- Registration
- Quiz



Feature :

- Voting
- Commenting
- Bus Schedule
- Text
- Guideboard
- Reporting
- Timer
- Smart Poster
- Registration
- Quiz





Feature :

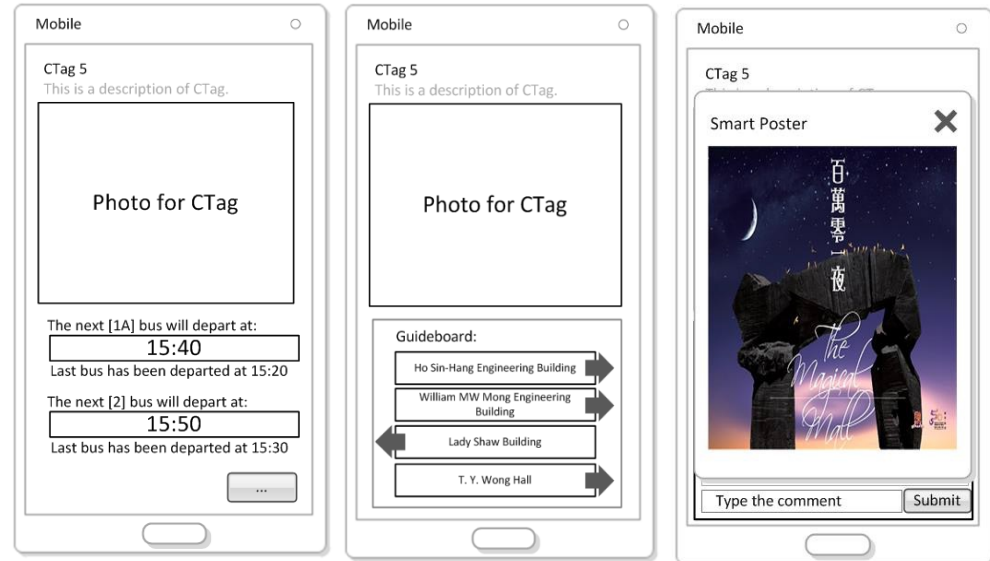
- Voting
- Commenting
- **Bus Schedule**
- Text
- **Guideboard**
- Reporting
- Timer
- **Smart Poster**
- Registration
- Quiz





Feature :

- Voting
- Commenting
- **Bus Schedule**
- Text
- **Guideboard**
- Reporting
- Timer
- **Smart Poster**
- Registration
- Quiz



Feature :

- Voting
- Commenting
- Bus Schedule
- Text
- Guideboard
- Reporting
- Timer
- Smart Poster
- Registration
- Quiz



Feature :

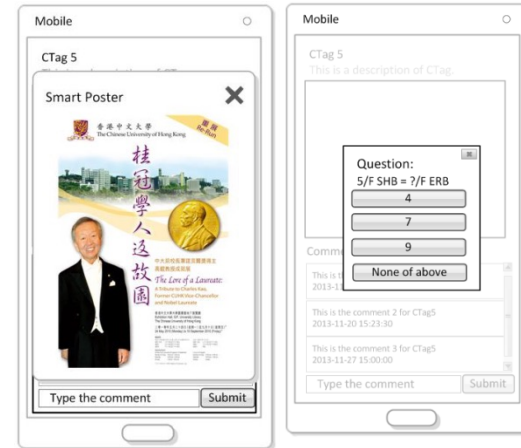
- **Voting**
- **Commenting**
- Bus Schedule
- **Text**
- Guideboard
- Reporting
- Timer
- **Smart Poster**
- Registration
- **Quiz**



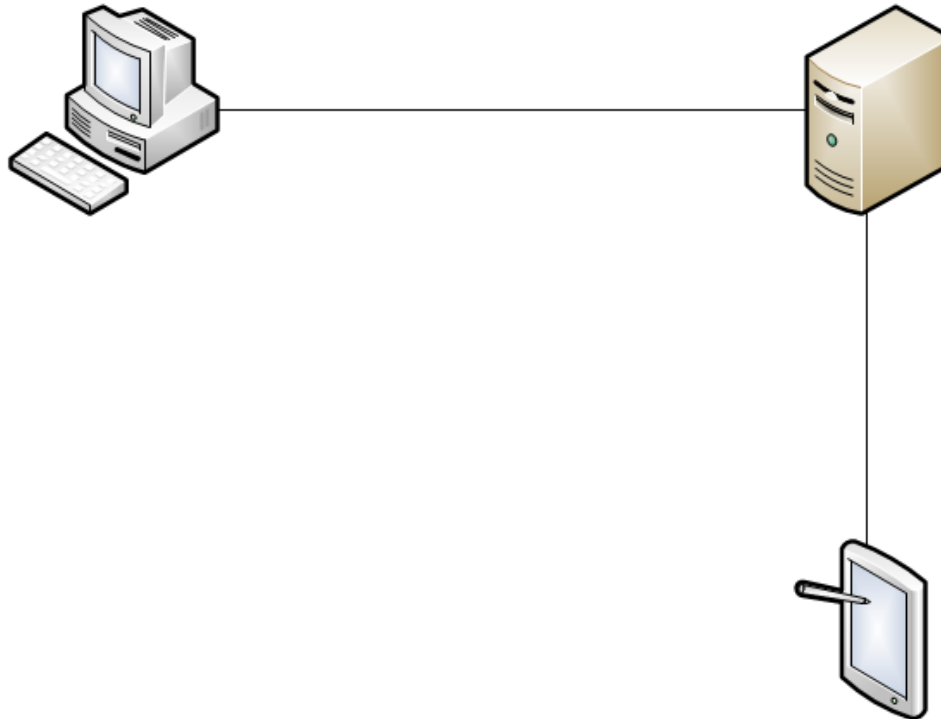


Feature :

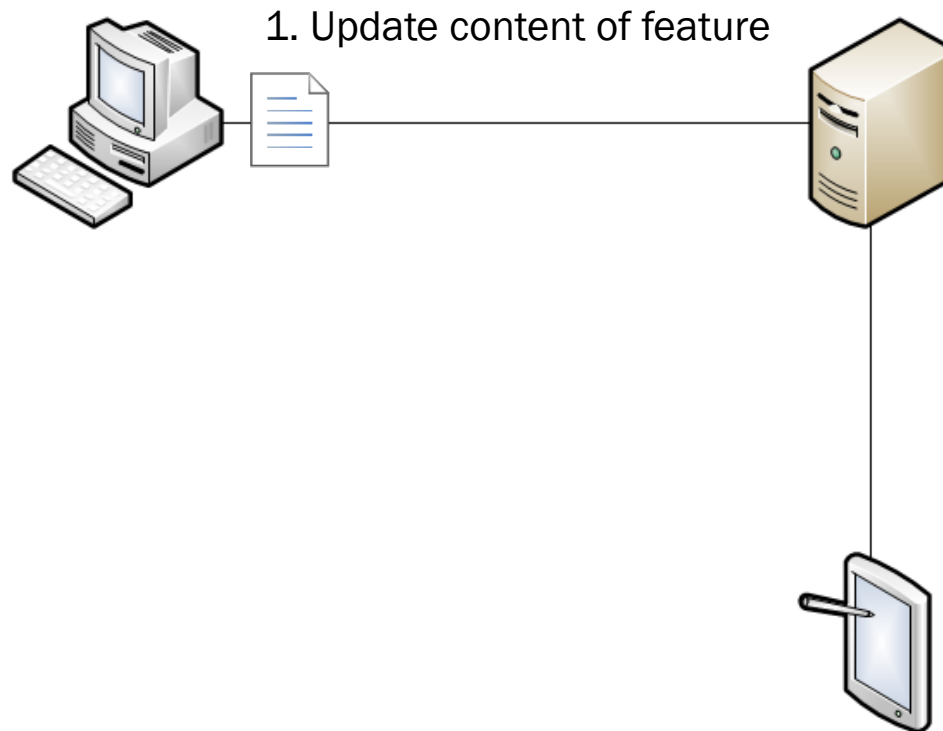
- Voting
- Commenting
- Bus Schedule
- Text
- Guideboard
- Reporting
- Timer
- Smart Poster
- Registration
- Quiz



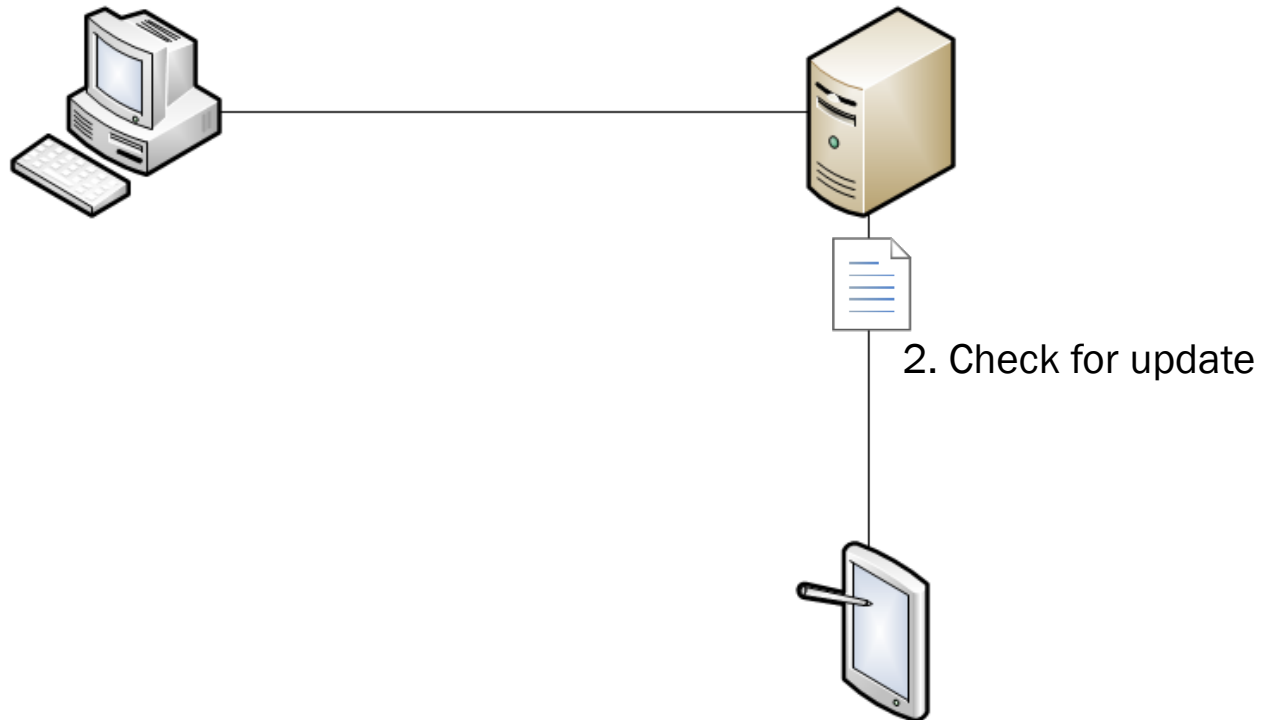
DESIGN



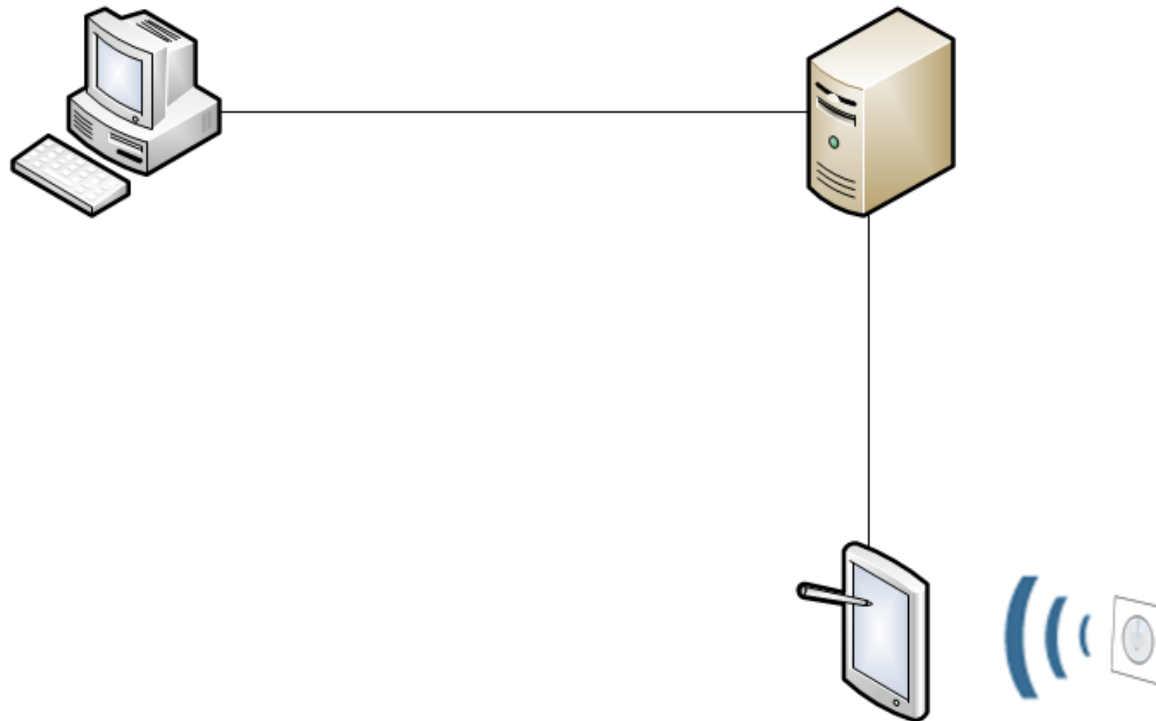
DESIGN



DESIGN



DESIGN



3. CTag is attached to mobile device

DESIGN



4. Display the content of different features





ADVANCEMENT

- Multiple functions
- Server control content

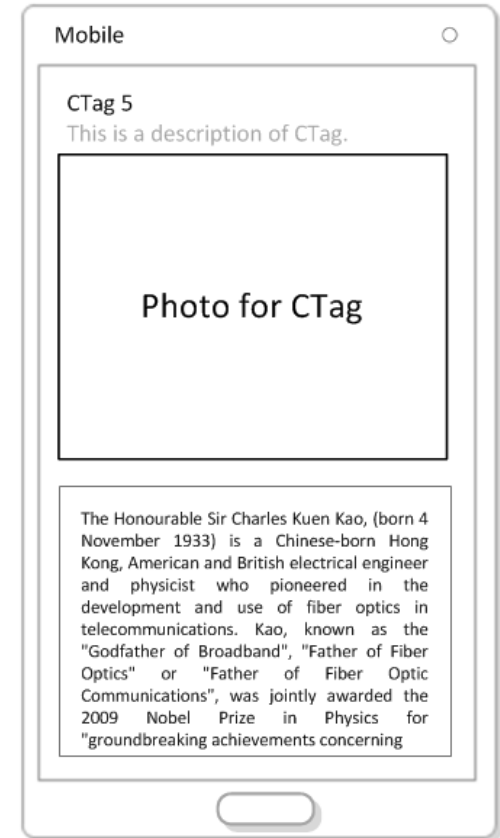


PROBLEMS

- Fixed Functions
- Fixed layout and format

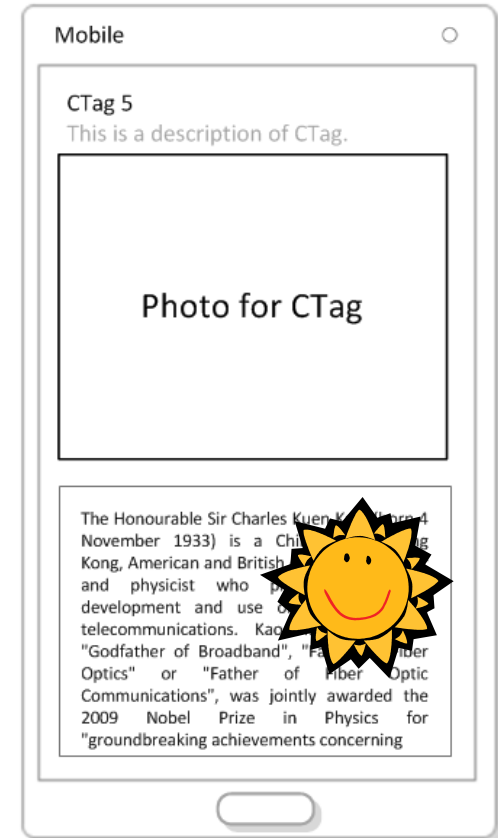
PROBLEMS

- Fixed Functions
- Fixed layout and format



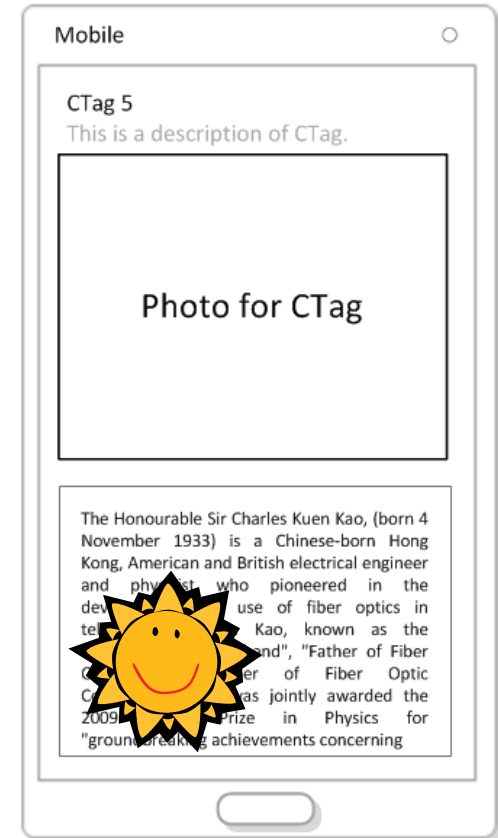
PROBLEMS

- Fixed Functions
- Fixed layout and format



PROBLEMS

- Fixed Functions
- Fixed layout and format





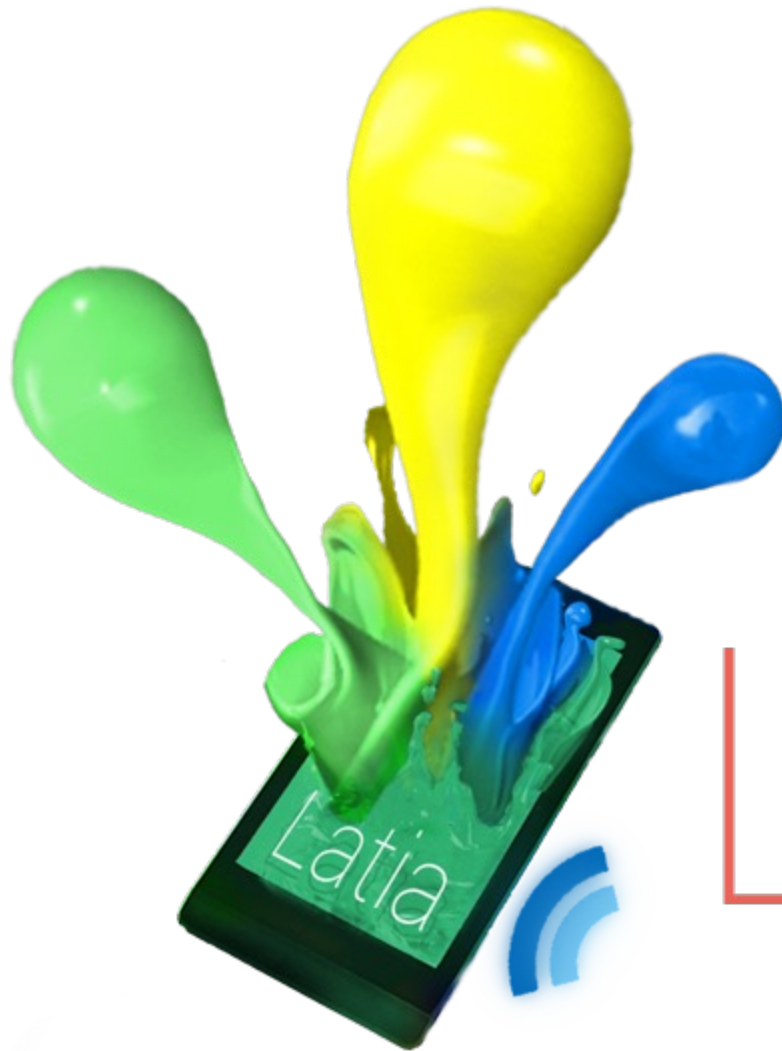
Feature :

- Voting
- Commenting
- Bus Schedule
- Text
- Guideboard
- Reporting
- Timer
- Smart Poster
- Registration
- Quiz



Feature :

- General feature



Latia

22/4/2014

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FURTHER ADVANCEMENT



22/4/2014

LYU1301 MOBILE APPLICATION USING NFC

FURTHER ADVANCEMENT

- No restriction on functions and features



FURTHER ADVANCEMENT

- No restriction on functions and features
- Customizable layout

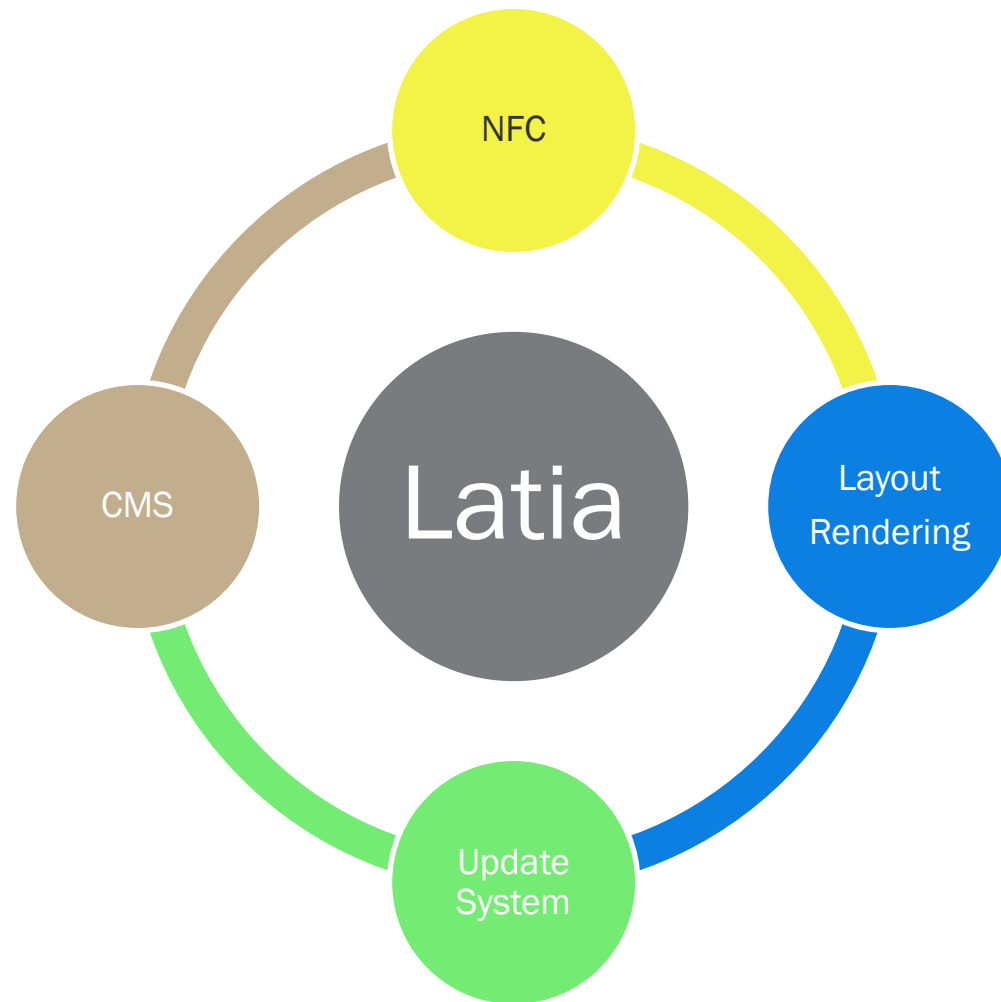


FURTHER ADVANCEMENT

- No restriction on functions and features
- Customizable layout
- Content controlled in server

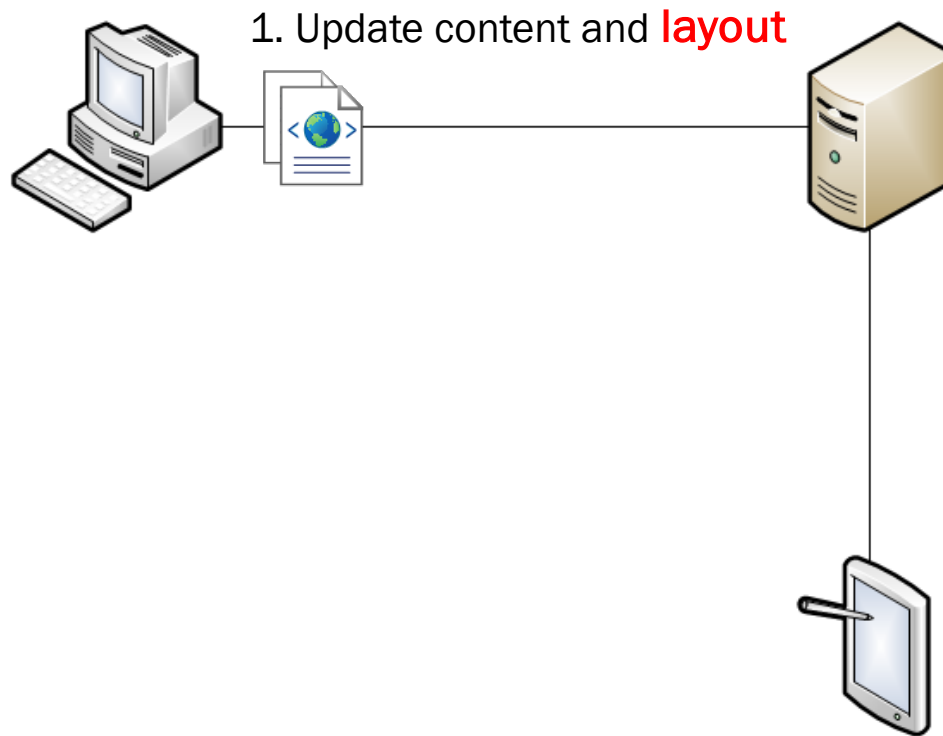


LATIA



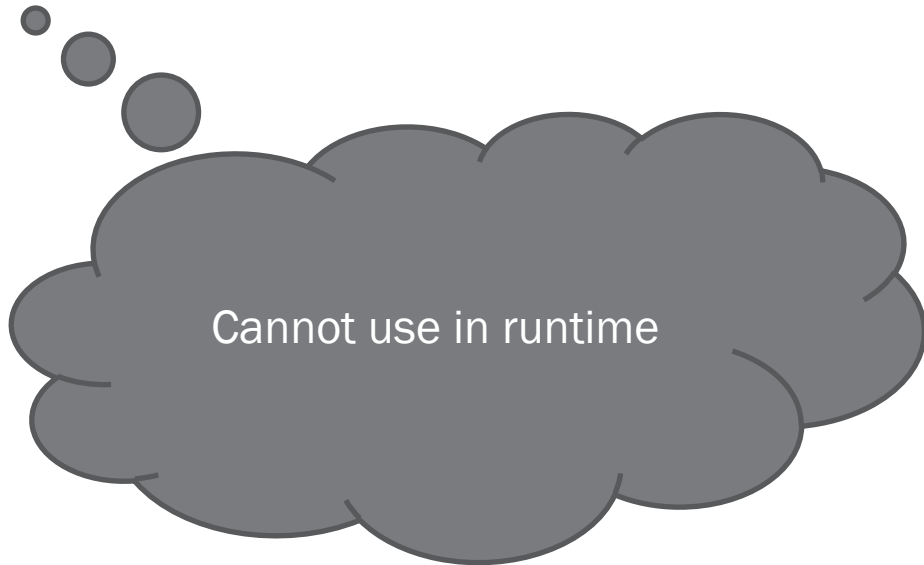
22/4/2014

LATIA DESIGN



LAYOUT RENDERING

- Android XML parser



LAYOUT RENDERING

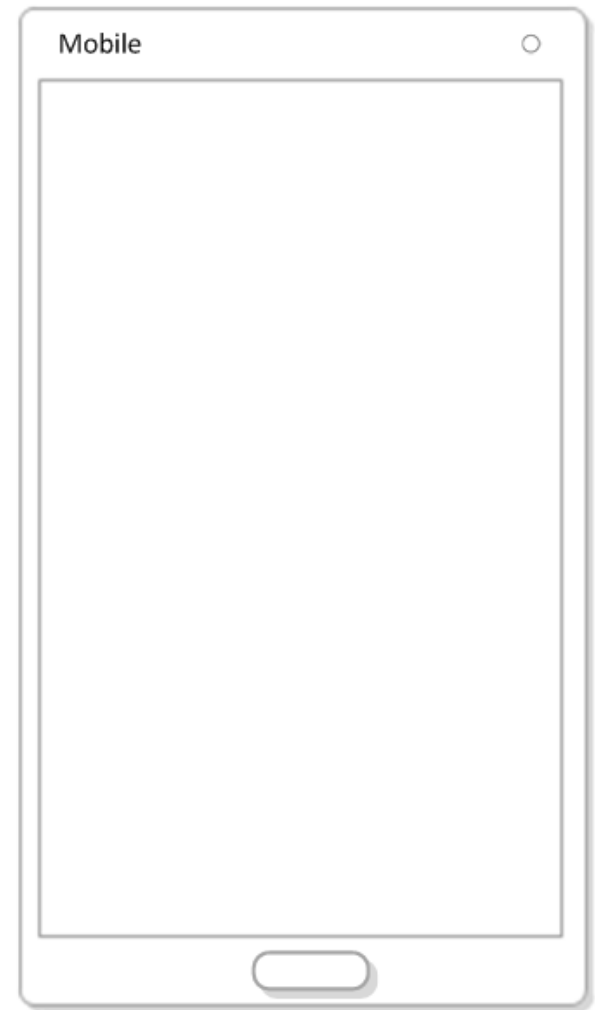
- Own XML parser
- XML Schema



LAYOUT RENDERING

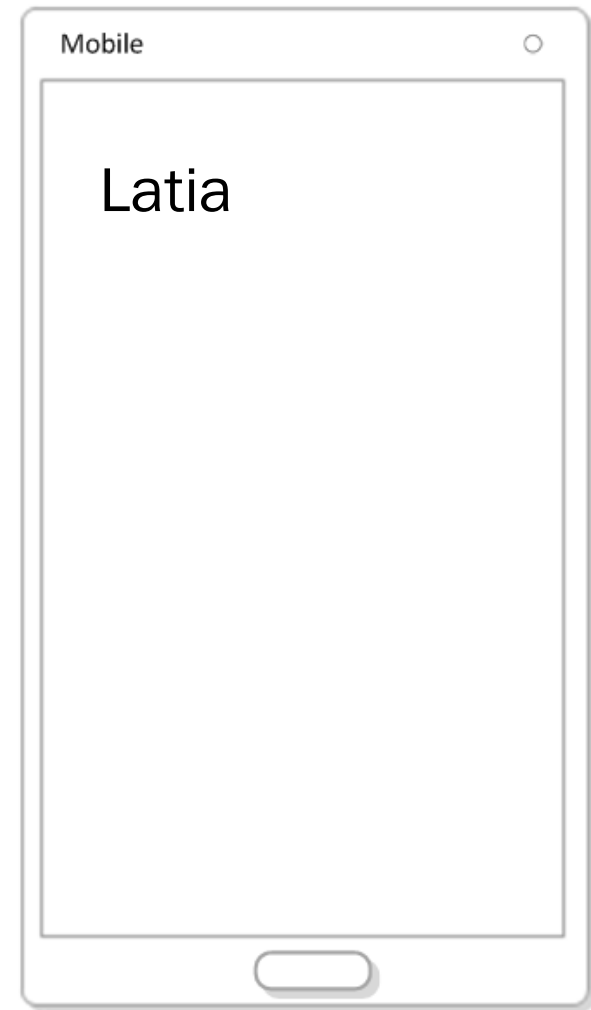
<LinearLayout>

</LinearLayout>



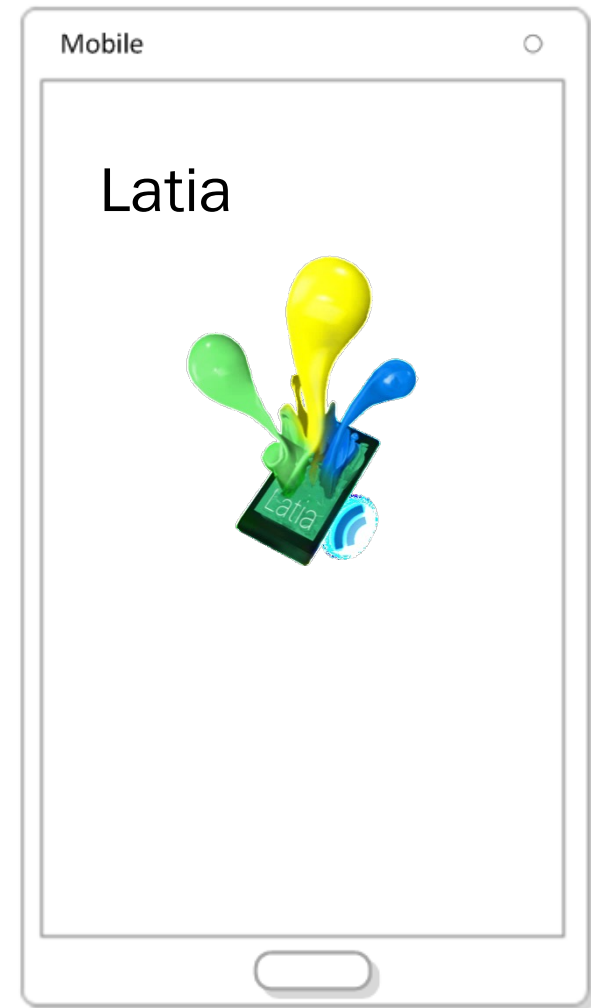
LAYOUT RENDERING

```
<LinearLayout>  
  <TextView  
    text="Latia"/>  
</LinearLayout>
```



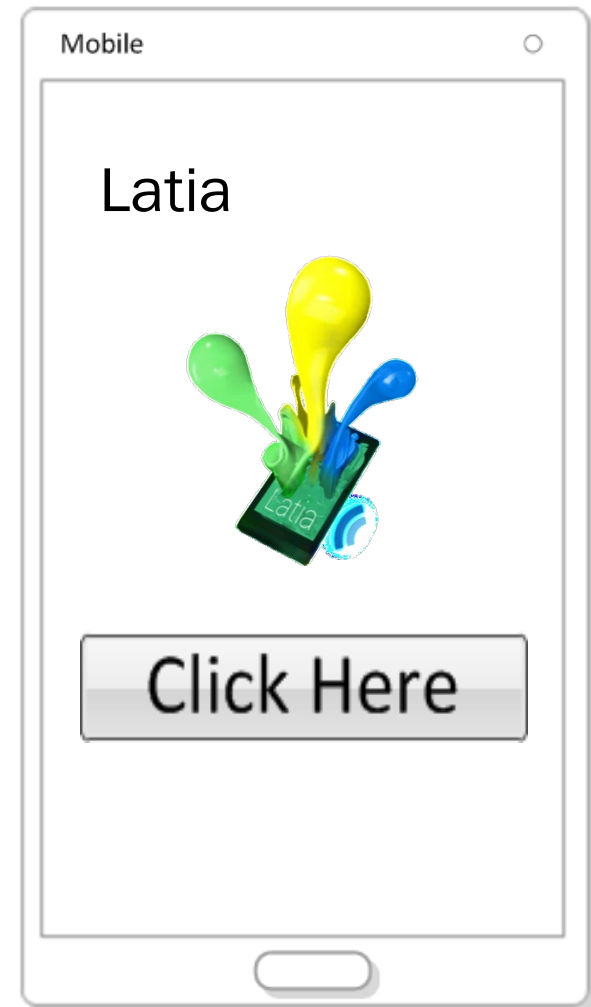
LAYOUT RENDERING

```
<LinearLayout>  
  <TextView  
    text="Latia"/>  
  <ImageView  
    src="img.jpg"/>  
</LinearLayout>
```



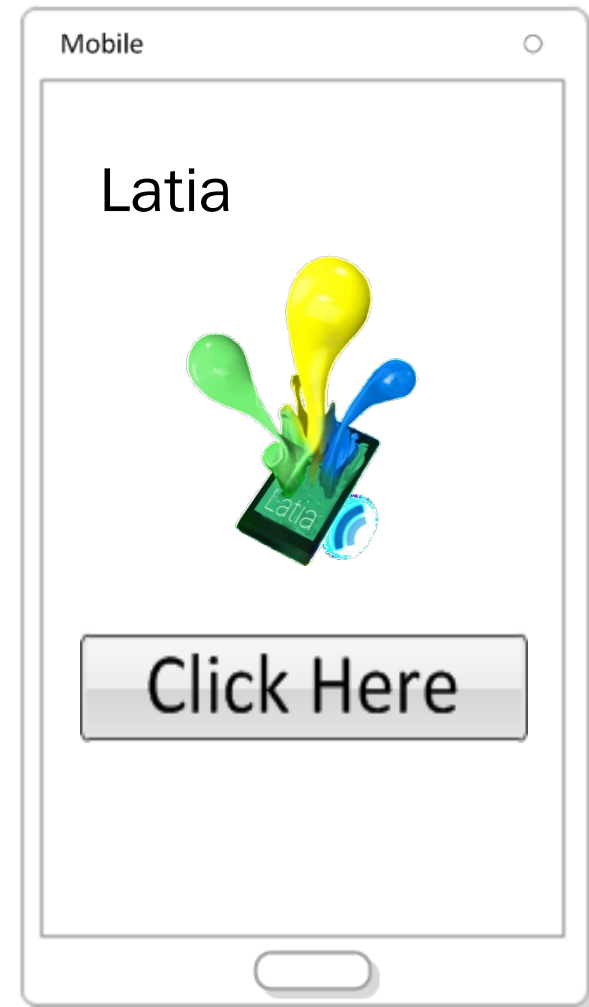
LAYOUT RENDERING

```
<LinearLayout>  
  <TextView  
    text="Latia"/>  
  <ImageView  
    src="img.jpg"/>  
  <Button  
    text="Click Here"/>  
</LinearLayout>
```



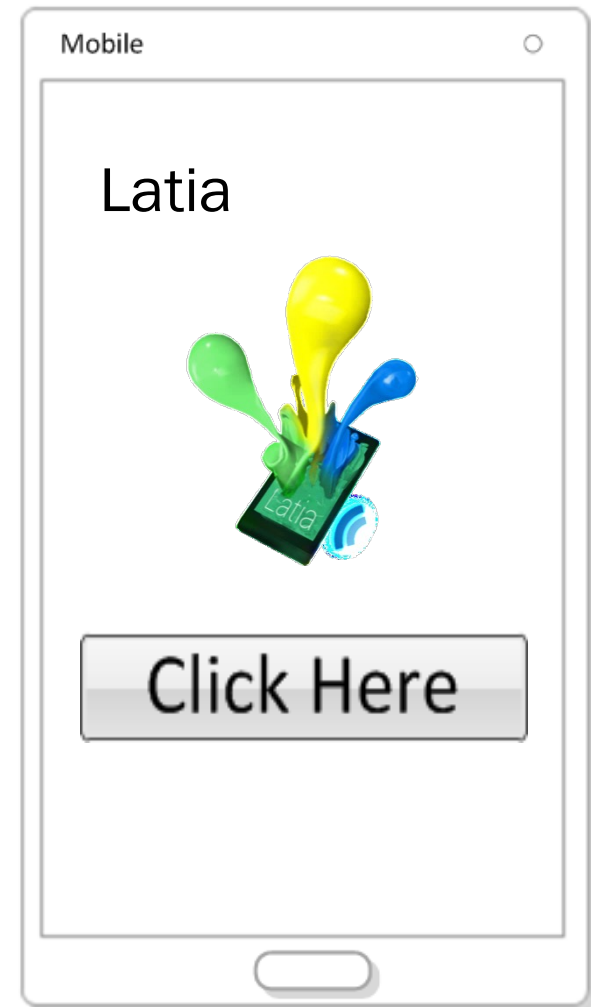
LAYOUT RENDERING

```
<LinearLayout>  
  <TextView  
    text="Latia"/>  
  <ImageView  
    src="img.jpg"/>  
  <Button  
    text="Click Here"  
    onClick="like"/>  
</LinearLayout>
```



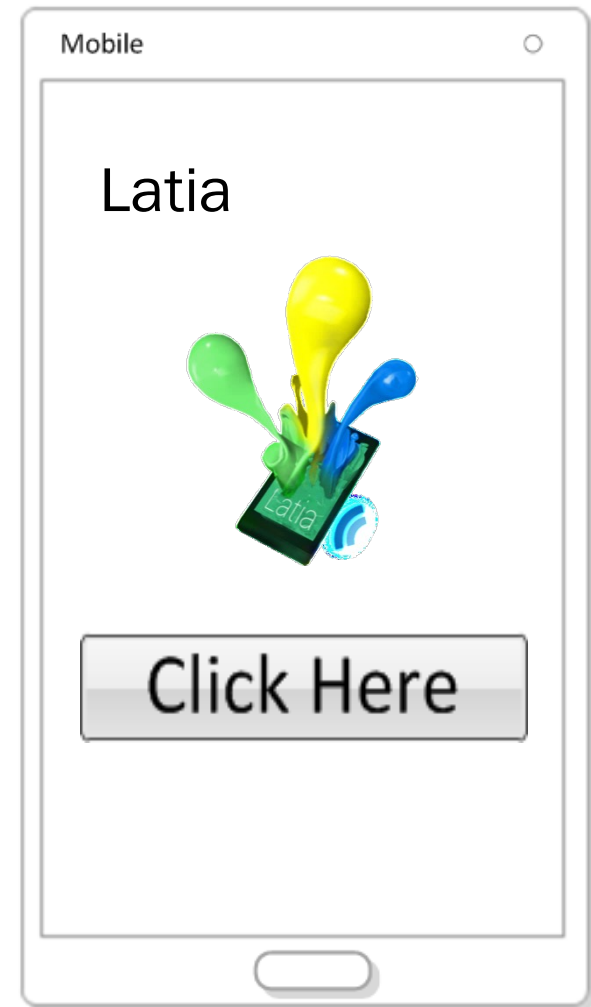
LAYOUT RENDERING

```
<LinearLayout>  
  <TextView  
    text="Latia"/>  
  <ImageView  
    src="img.jpg"/>  
  <Button  
    text="Click Here"  
    onClick="dislike"/>  
</LinearLayout>
```



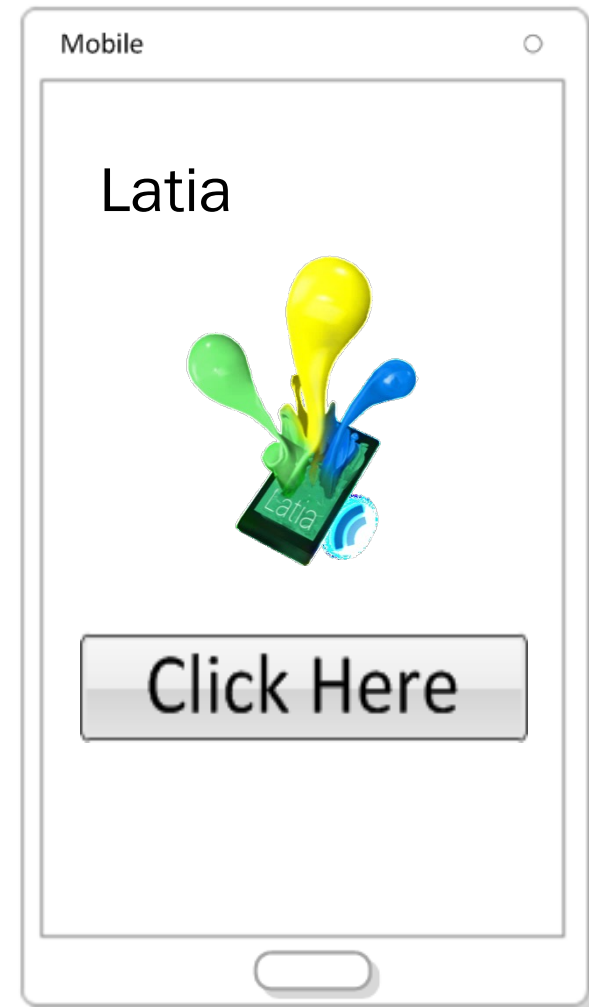
LAYOUT RENDERING

```
<LinearLayout>
  <TextView
    text="Latia"/>
  <ImageView
    src="img.jpg"/>
  <Button
    text="Click Here"
    onClick="url"
    url="google.com"/>
</LinearLayout>
```



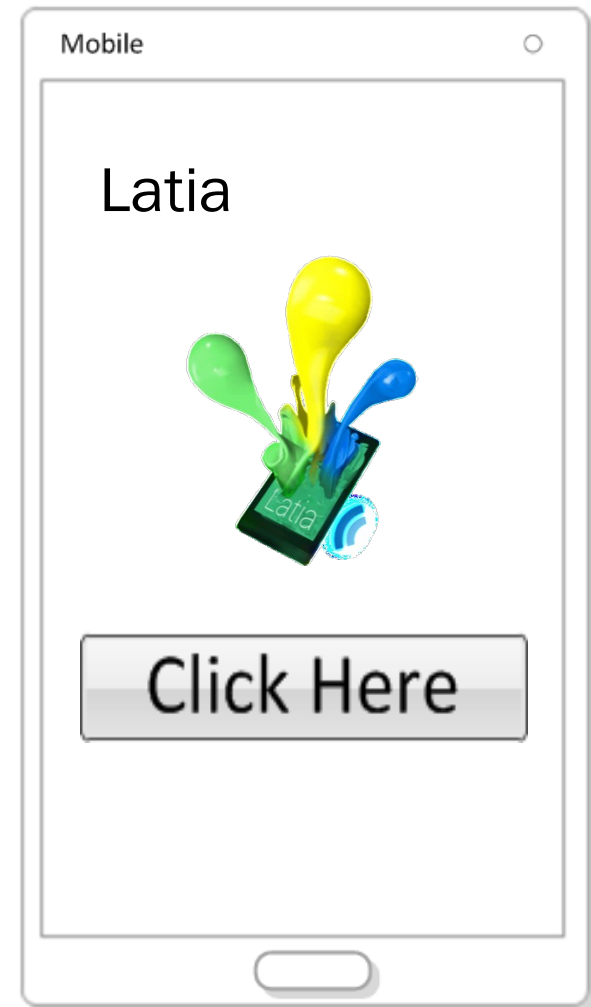
LAYOUT RENDERING

```
<LinearLayout>
  <TextView
    text="Latia"/>
  <ImageView
    src="img.jpg"/>
  <Button
    text="Click Here"
    onClick="calendar"
    eventInfo="..." />
</LinearLayout>
```



LAYOUT RENDERING

```
<LinearLayout>
  <TextView
    text="Latia"/>
  <ImageView
    src="img.jpg"/>
  <Button
    text="Click Here"
    onClick="contact"
    contactInfo="..." />
</LinearLayout>
```



LAYOUT RENDERING

```
<LinearLayout
    width="match_parent"
    height="match_parent"
    orientation="vertical">

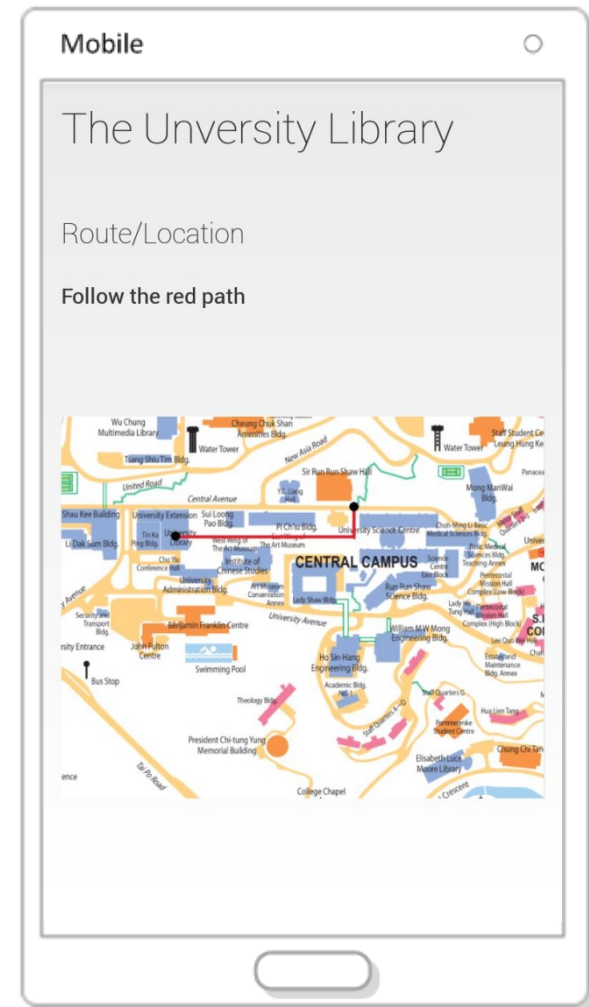
    <TextView
        width="wrap_content"
        height="wrap_content"
        textSize="40"
        text="The University Library" />

    <TextView
        width="wrap_content"
        height="wrap_content"
        textSize="25"
        text="Route/Location" />

    <TextView
        width="wrap_content"
        height="wrap_content"
        text="Follow the red path" />

    <ImageView
        width="fill_parent"
        height="wrap_content"
        src="map.png" />

</LinearLayout>
```

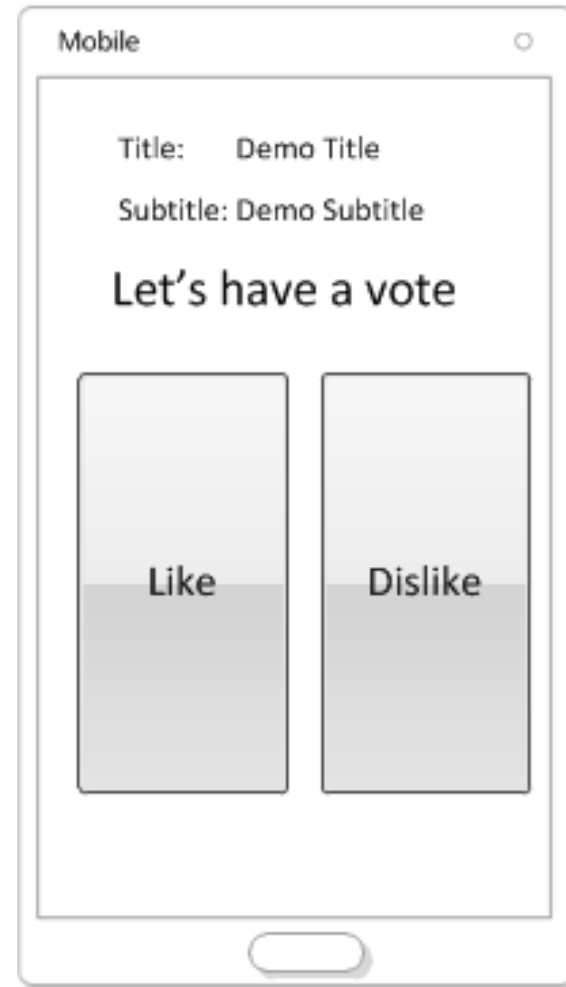
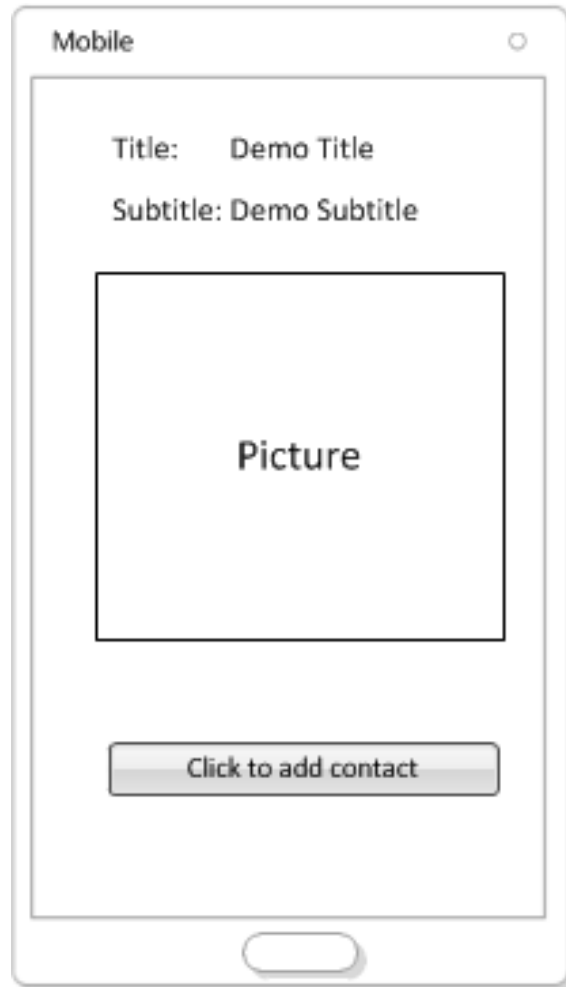


SERVER AND CMS

22/4/2014

LYU1301 MOBILE APPLICATION USING NFC

DEMONSTRATION



APPLICATION – BOOK STORE



- Book Information (E.g. Summary)
- Promotion (E.g. E-Coupon)
- Advertisement (E.g. Related Product)



APPLICATION – HONG KONG DISNEYLAND

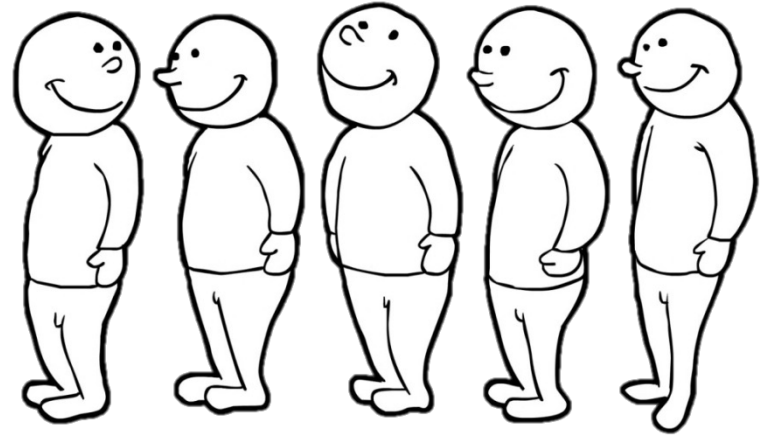


- Park Information (E.g. Open hours)
- Guide Board
- News (E.g. Seasonal Events)



22/4/2014

APPLICATION - RESTAURANT



- Queuing
- Food Ordering



APPLICATION - LIBRARY



- Study Room information (E.g. facilities)
- Room Reservation
- Report Contact



22/4/2014

APPLICATION – EVENTS REGISTRATION



The Independent Learning Centre
Here for Students ...

- Events Information
- Registration

Register
now!

Independent Learning in Practice:
“Self-Learning Chinese” and “University Chinese Grammar in Use”

Objectives: To implement blended-learning and to encourage self-directed learning through designing online courses and incorporating self-learning materials into university curricula.

Authors: Dr. Chao Lip Yan, Felix (LC) Prof. Tang Sze-Wing (CH)
Dr. Tan Mei Ah (LC) Dr. Chan Yin Ha, Vivian (LC)

CHLT 1103 Self-Learning Chinese (I)
CHLT 1203 Self-Learning Chinese (II)

Designed to replace the compulsory course CHLT 1100 for non-JUPAS students who are admitted on advanced standing to F1/F2 places at CUHK.

First run done in Fall, 2013 (over 200 students enrolled).

Five Chapters: (1) The formation of Chinese characters, (2) Misused and miswritten Chinese characters, (3) Traditional and simplified characters, (4) Synonyms and antonyms, and (5) Punctuation.

Future development: Chapters are currently undergoing revision based on teachers' and students' feedback. Student assessment results will also be considered. CHLT 1203 Self-Learning Chinese (II) will succeed Self-Learning Chinese (I) to introduce Chinese grammar, conjunctions, English-Chinese translation, as well as descriptive and argumentative writing.

Special features: To implement blended learning, face-to-face seminars and consultation sessions are offered to provide students with guidance and to collect feedback. This is a joint effort to promote independent learning within university curriculum (SIC and CHS) and course materials are provided by teachers of the CHS and modified by the ILC.

Common features: Interactive exercises utilizing different formats, recommended resources and assignments, as well as self-assessment are included.

Online Learning Platform for University Chinese Grammar in Use (TDG)

A two-year 100-funded project to create an online platform on Chinese grammar to complement the compulsory course CHLT 1100 University Chinese, for all undergraduates of CUHK who are admitted to JUPAS. The project is ongoing. Chapter on the difference between modern and classical Chinese has been completed.

Six Chapters: (1) Foundational Chinese grammar, (2) Descriptive features of Chinese, (3) The formation of words and lexical classification, (4) Sentence analysis, (5) Language phenomena in use, and the pragmatic use of grammar, (6) Application of grammatical and lexical knowledge to writing.

Special features: This is a joint effort to promote independent learning by incorporating semi-compulsory self-learning elements into a regular course. There is a note-taking function to allow students to create worksheets with sample sentences drawn from the online course materials.

Common features: Interactive exercises utilizing different formats, recommended resources and assignments, as well as self-assessment are included.

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LYU1301 MOBILE APPLICATION USING NFC



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CUHK @ ICT Expo 2014

Postmodern Resolution Ltd. - April 11, 2014
Communication

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Email: ontec@open.cuhk.edu.hk
2014-04-09 18:28:30

LATIA: Mobile Information Wallet Development Library
Prof. Liu Hung Tsang Michael
Department of Computer Science and Engineering
2014-04-09 18:28:30


Lab on a disc (LOAD) - A Possible Choice for Health Diagnostic Device Platforms
Prof. Ho Ho-Pun
Department of Electronic Engineering
2014-04-09 18:28:40

Stereoscopic Gel Animation
Prof. Wai-Tsz Tse
Department of Computer Science and Engineering
2014-04-09 18:27:50

Binocular Tone Mapping
Prof. Wai-Tsz Tse
Department of Computer Science and Engineering
2014-04-09 18:27:50

A Feature-based High-throughput Roll-to-roll Printing System
Prof. Chiu-Bin Shiu
Department of Mechanical and Automation Engineering
2014-04-09 18:27:50

Multi-modal Mobile Information Wallet System for Information



LATIA: Mobile Information Wallet Development Library
Prof. Liu Hung Tsang Michael
Department of Computer Science and Engineering

LATIA is the middleware for Android application development. Utilizing the fundamental functions for mobile information wallet with Near Field Communication (NFC) tag, LATIA provides a user-friendly platform for exhibitors, event organizers and marketing campaign agents to produce interactive brochures and smart posters.

URLs and QR Codes are often included in printed promotional materials such as posters for audience to access extra information using their handheld devices. Utilizing NFC technology, LATIA provides an even more convenient and speedy way for information acquiring. Users are not required to launch any apps on their own. By simply putting the device with NFC function close to the NFC tag, designated app will be launched automatically and information will be displayed. With the interactive features provided, users can express if they 'like' the message, or choose to add an event to their mobile calendar. Besides, LATIA provides a user-friendly interface for marketing users to customize



LATIA: Mobile Information Wallet Development Library
Prof. Liu Hung Tsang Michael
Department of Computer Science and Engineering

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Description

Mobile Information Wallet for CUHK @ ICTExpo 2014

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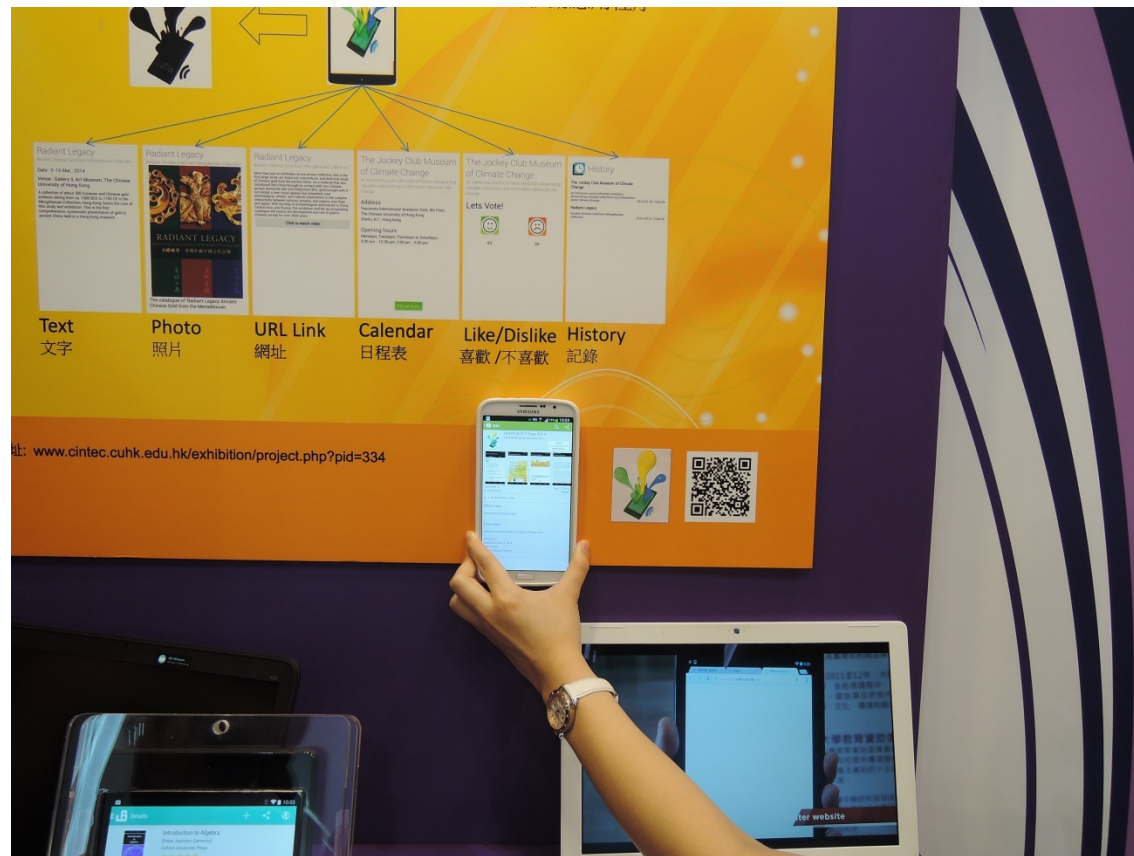
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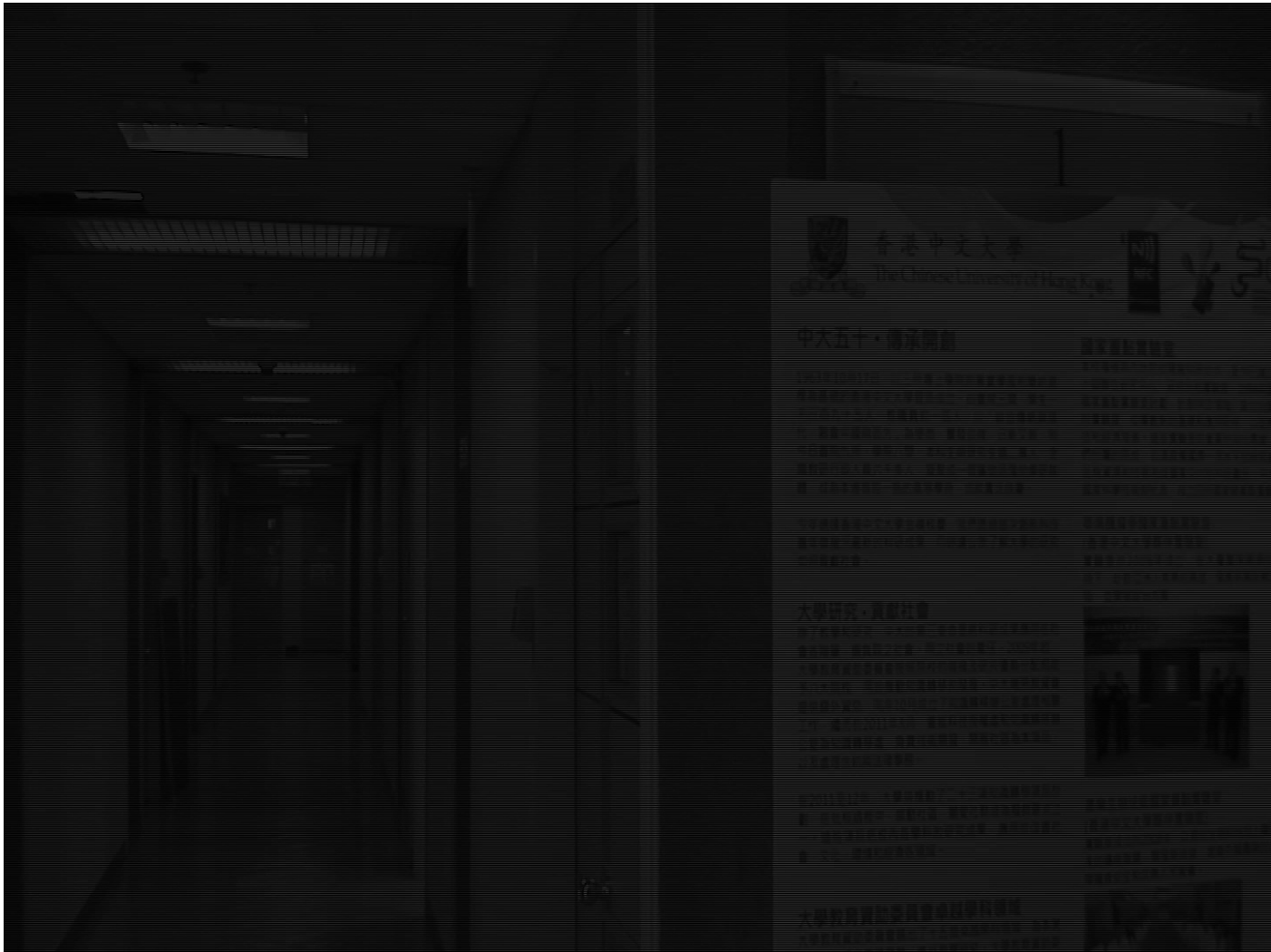
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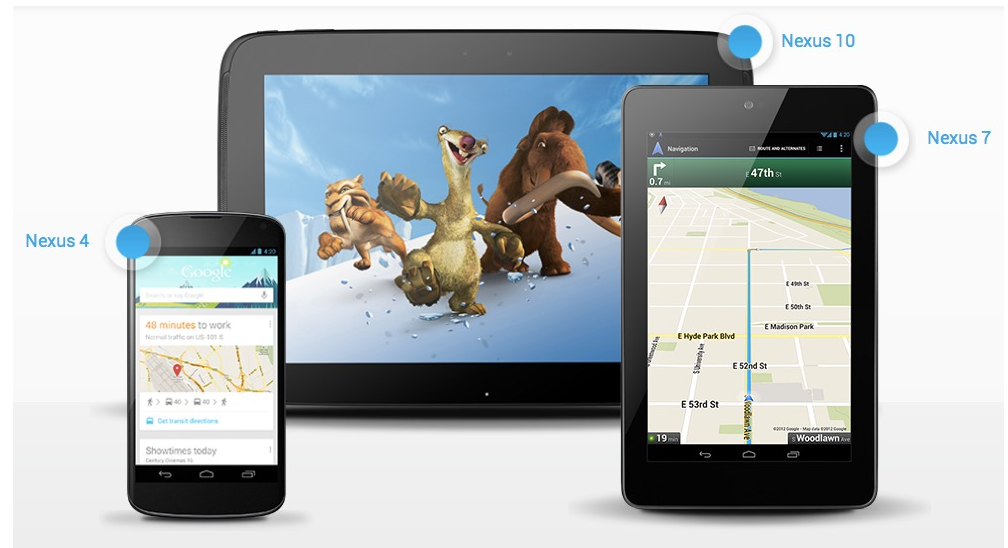
- Incremental updating system

DEPLOYMENT - CONCERNS

- Incremental updating system
- **Compatibility**

DEPLOYMENT - CONCERNS

- Incremental updating system
- **Compatibility**



DEPLOYMENT - CONCERNS

- Incremental updating system
- Compatibility
- History page

CONCLUSION

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FURTHER DEVELOPMENT

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FURTHER DEVELOPMENT

- Enrich XML schema

FURTHER DEVELOPMENT

- **Enrich XML schema** E.g. Internet background thread

FURTHER DEVELOPMENT

- **Enrich XML schema** E.g. Internet background thread, Text box

FURTHER DEVELOPMENT

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- Support direct communication (E.g. Bluetooth)

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FURTHER DEVELOPMENT

- Enrich XML schema E.g. Internet background thread, Text box
- Support direct communication (E.g. Bluetooth)
- CMS GUI
- Scalability

END

Q&A

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