

Hong Kong Institute of Vocational Education (Tsing Yi)

Department of Information and Communications Technology

Higher Diploma in Software Engineering

Final Year Project (ITD3309)

Final Report – Appendix A

User Guide / Installation Guide / Schedule

(2011/2012)

Distance Learning on Android Tablet – LearnAble!

Supervisor:	Clarence Lau Esther Yuen
Student:	Tai Ching Kiu Fung Ka Yiu Wong Ho Fung

We declare that this is a group project and that no part of this submission has been copied from any other student's work or from any other source except where due acknowledgement is made explicitly in the text, nor has any part been written for us by another person.

Student	Contribution to the project (%) (Total 100%)	Signature
Tai Ching Kiu	40	
Fung Ka Yiu	40	
Wong Ho Fung	20	

Contents

User Guide	3
Teacher.....	4
Login	4
Start Lesson	5
Lesson Page.....	7
PowerPoint	7
White Board	8
Voice Chat / Group Chat / Single Chat.....	17
Ask Question	19
Attendance.....	20
Student	21
Login	21
Attend Lesson.....	22
PowerPoint	23
Voice Chat / Group Chat / Single Chat.....	24
Ask Question	27
White Board	28
Video Live Streaming	29
PowerPoint to Image.....	30
Installation Guide	32
Android Application	33
Wamp Server (PHP / MYSQL Server)	35
Openfire Server (IM Server)	39
Wowza Media Server (Media Streaming Server).....	45
MiniSipServer (Telephone Server).....	51
Project Schedule	56

User Guide

Teacher

Login

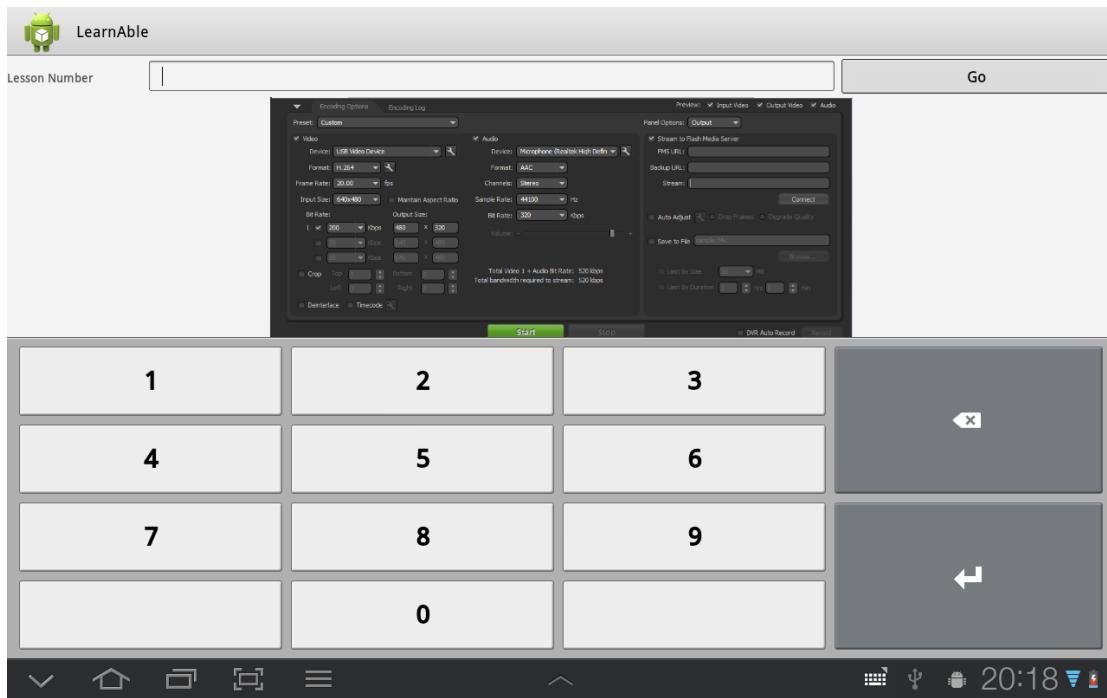


Login with your user id and user password. Click “Login Button” to proceed Login.

Start Lesson

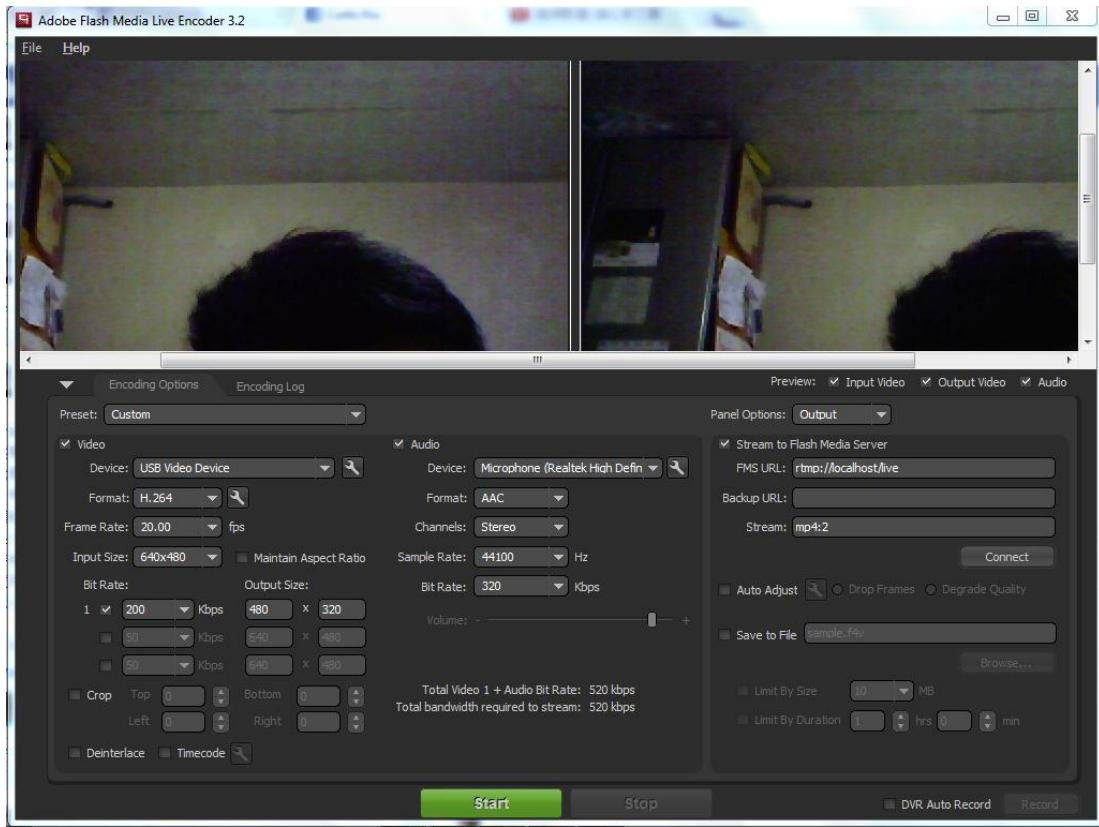


1. Click “Start Lesson” in the right top owner.

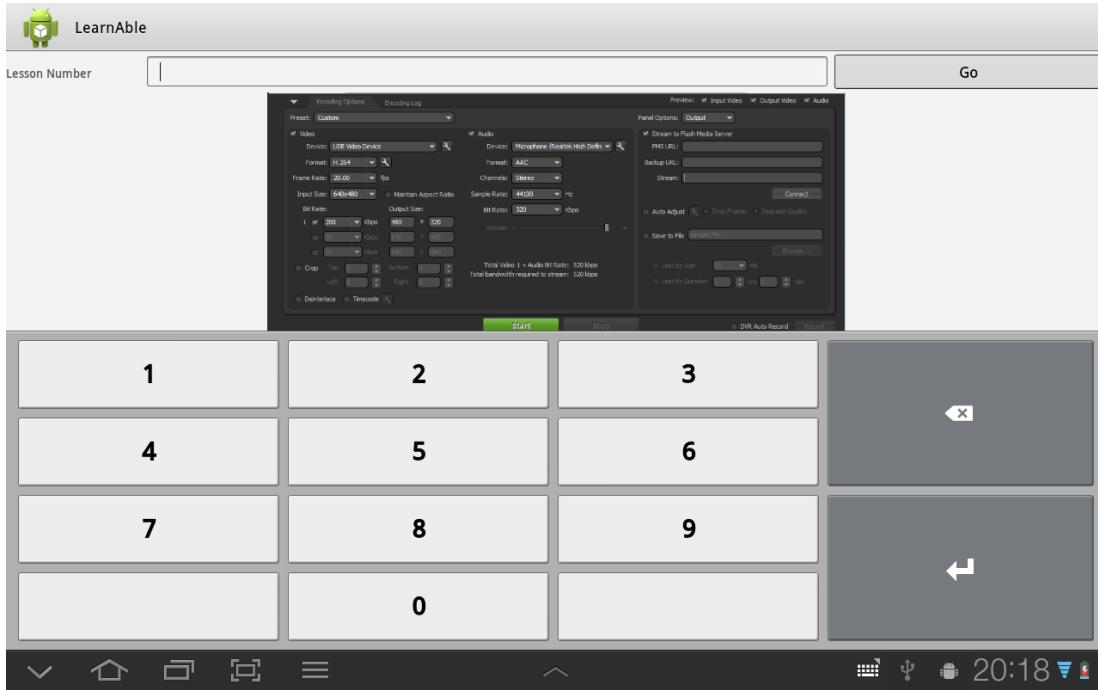


2. Follow the instruction in the picture. Set the configuration in Adobe Flash Encoder.

A6



3. Click “DVR Auto Record” in right down corner and Click “Start” in the Adobe Flash encoder



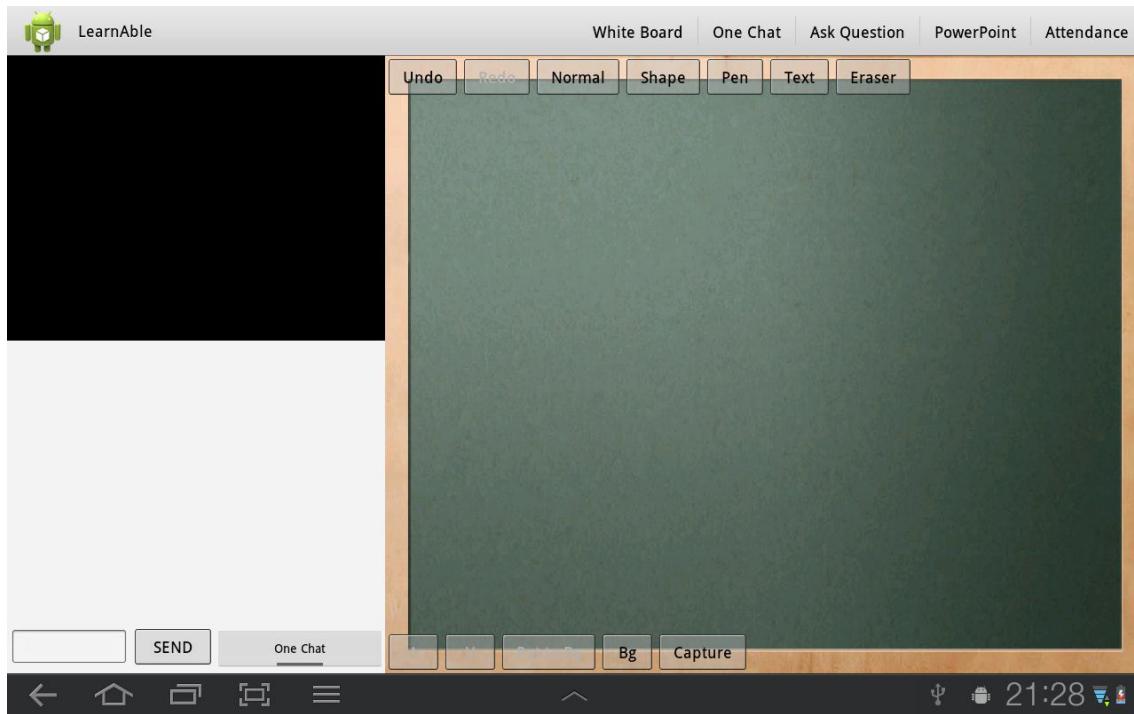
4. Enter Lesson Number and Click Go.

Lesson Page.

PowerPoint

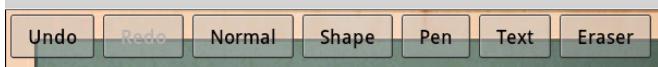
1. PowerPoint Function will be shown first when the lesson page start.
2. If you would like to display again, click “PowerPoint” in the navigation bar.
3. To move the slide, you can
 - <1> Enter Page Number
 - <2> Click Previous or Next Button
 - <3> flick in the image box , click the image
4. When you locate the new slide, student will turn to the same page at the same time.

White Board



1. White Board Function will be shown first when the lesson page start.
2. If you would like to display again, click “White Board” in the navigation bar.
3. When you draw anything, student will show at the same time.

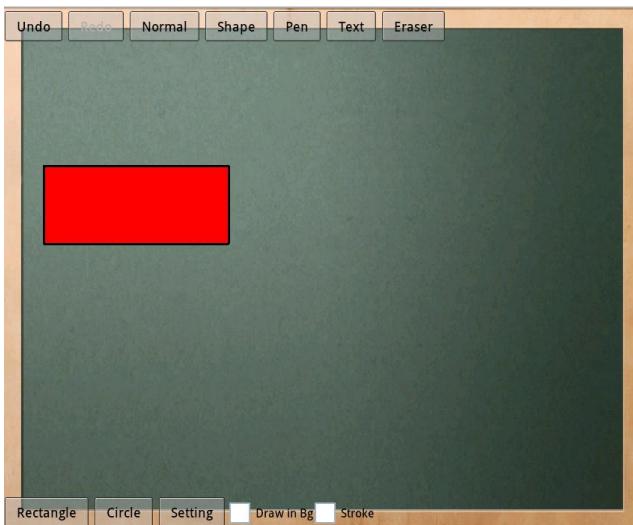
Main menu



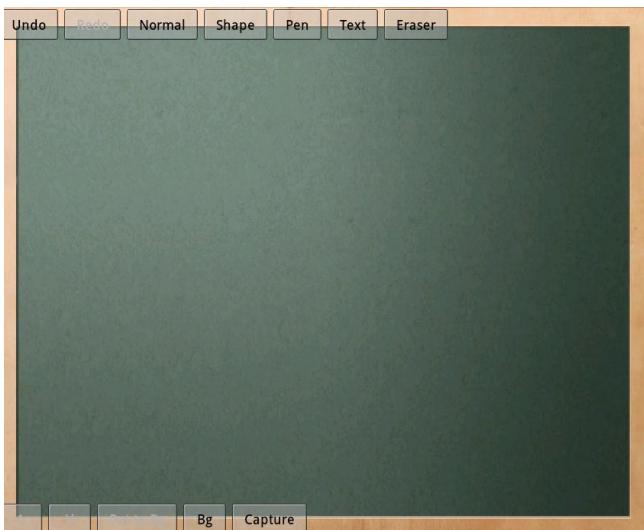
1. Undo & Redo

To undo or redo the drawing, resizing, moving action.

For example, drawing a circle, and press “undo”, the circle would disappear. You could press “redo” to show the circle again.



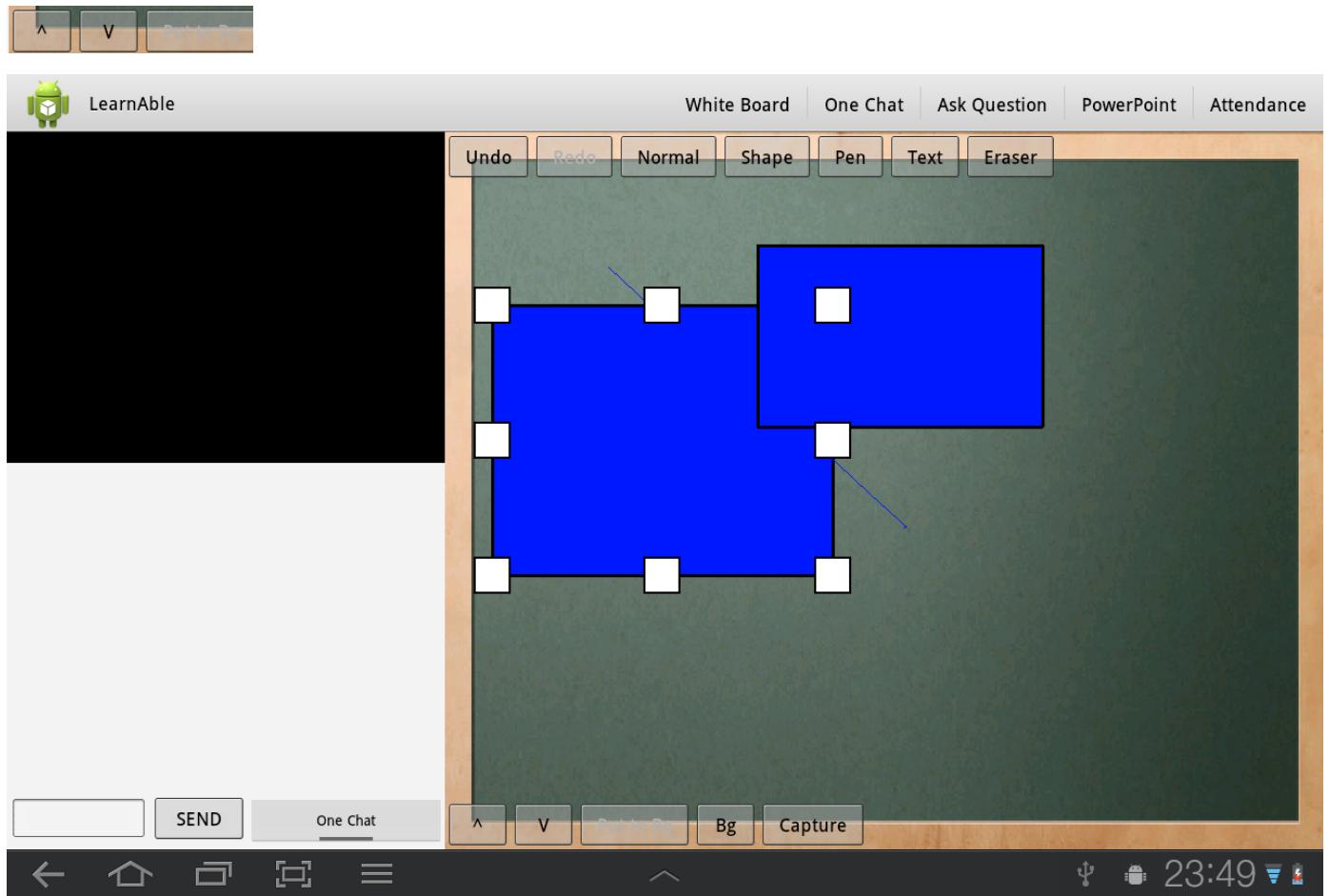
After undo



2. Normal

In this control, you change the order of the shape, move the shape and resize them.

When you press “Normal”, submenu would show on the bottom



2.1 “^” - Move to Front

You could click the shape and click “^” to move the shape to the front

2.2 “v” - Move to back

You could click the shape and click “v” to move the shape to the back

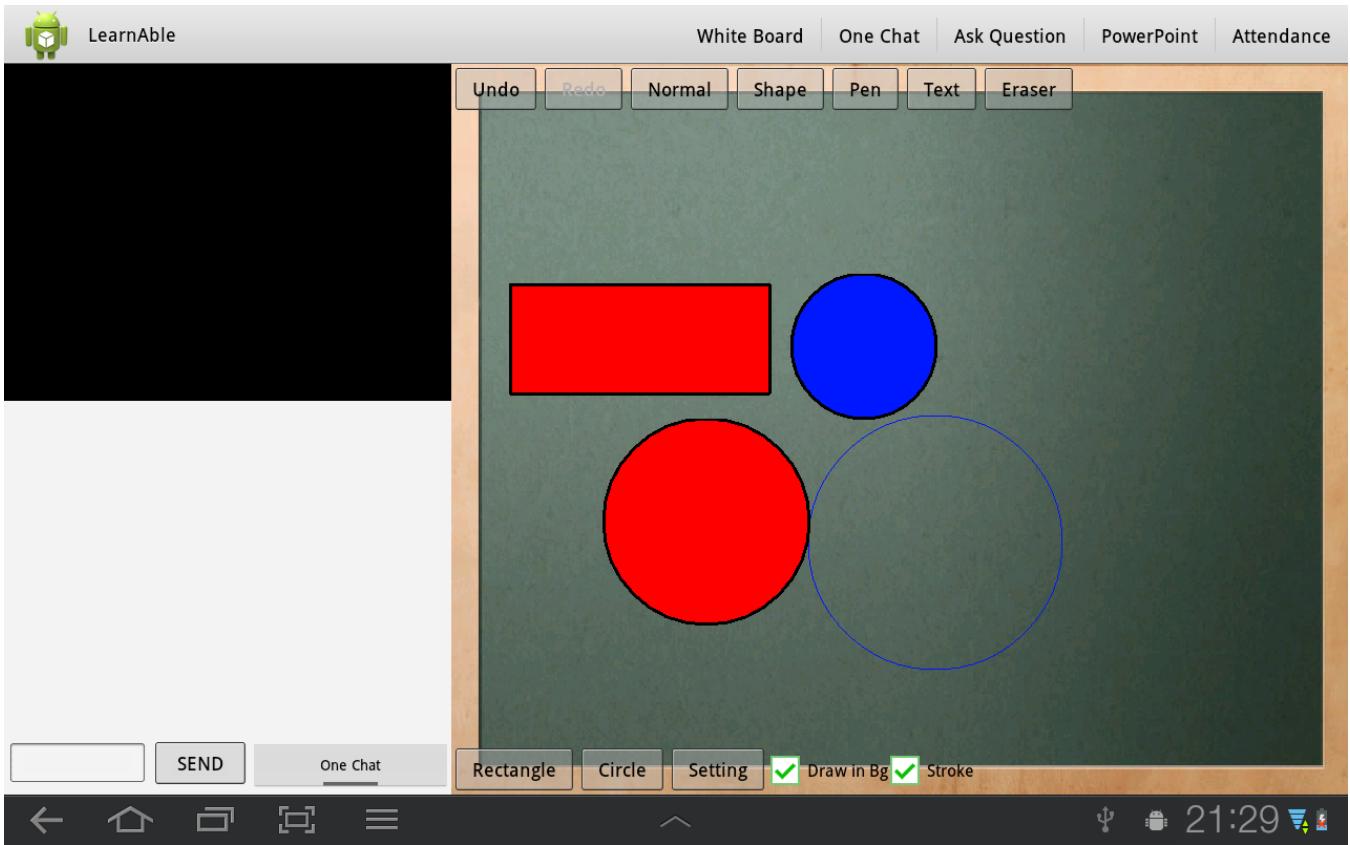
2.3 “Put to Bg” - Put to background

You could click the shape and click “v” to move the shape to the back

2.4 Touch the screen

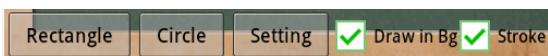
You could click the shape to move or click the corner box of the selected shape to resize.

3. Shape

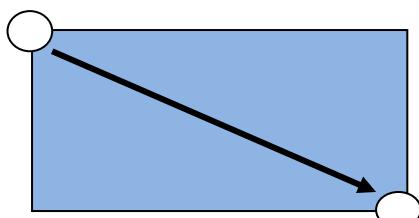


In this control, you could draw the shape with favorable setting.

When you click the shape button, submenu would show on the bottom

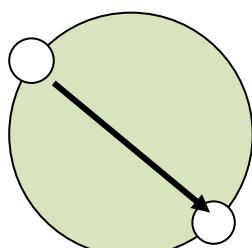


3.1 “Rectangle” - Draw Rectangle



- <1> Click “Rectangle”
- <2> Touch the screen to draw

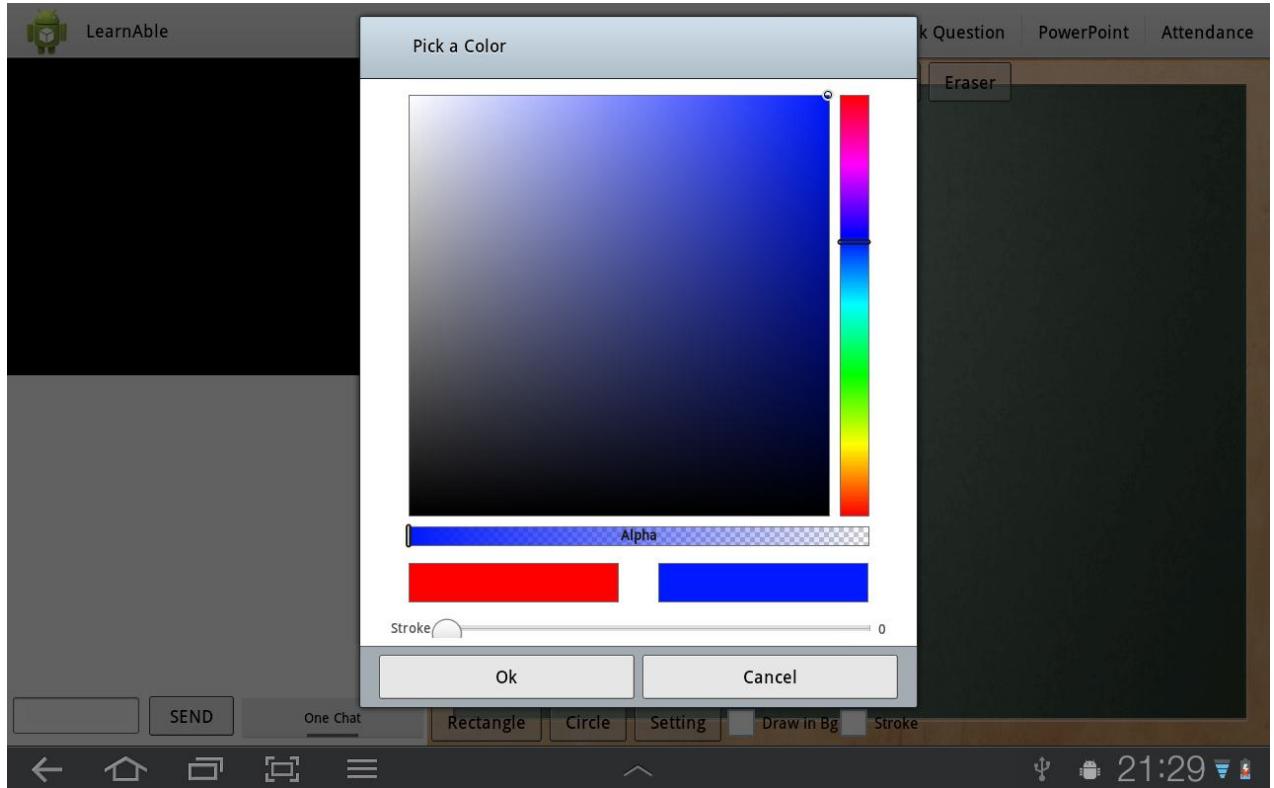
3.2 “Circle” - Draw Circle



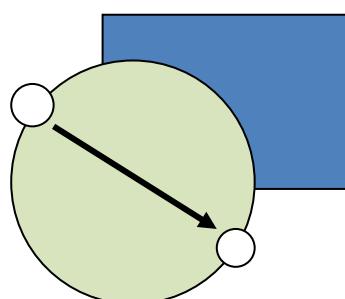
- <1> Click “Circle”
- <2> Touch the screen to draw

3.3 “Setting” - Change Setting

You could select the colour and thickness of line in the dialog box

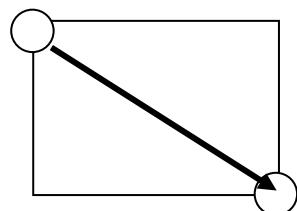


3.4 “Draw in Bg” - Shape drawn in Bg



- <1> When there is a rectangle on the screen
- <2> Click “Rectangle” or “Circle” to draw
- <3> Tick the draw in Bg
- <4> Touch the screen to draw
- <5> the new circle would be behind the rectangle

3.5 “Stroke” - Shape with border only

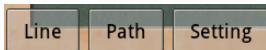


- <1> Click “Rectangle” or “Circle” to draw
- <2> Tick “Stroke”
- <3> Touch the screen to draw
- <4> the new shape is not filled with colour

4. Pen

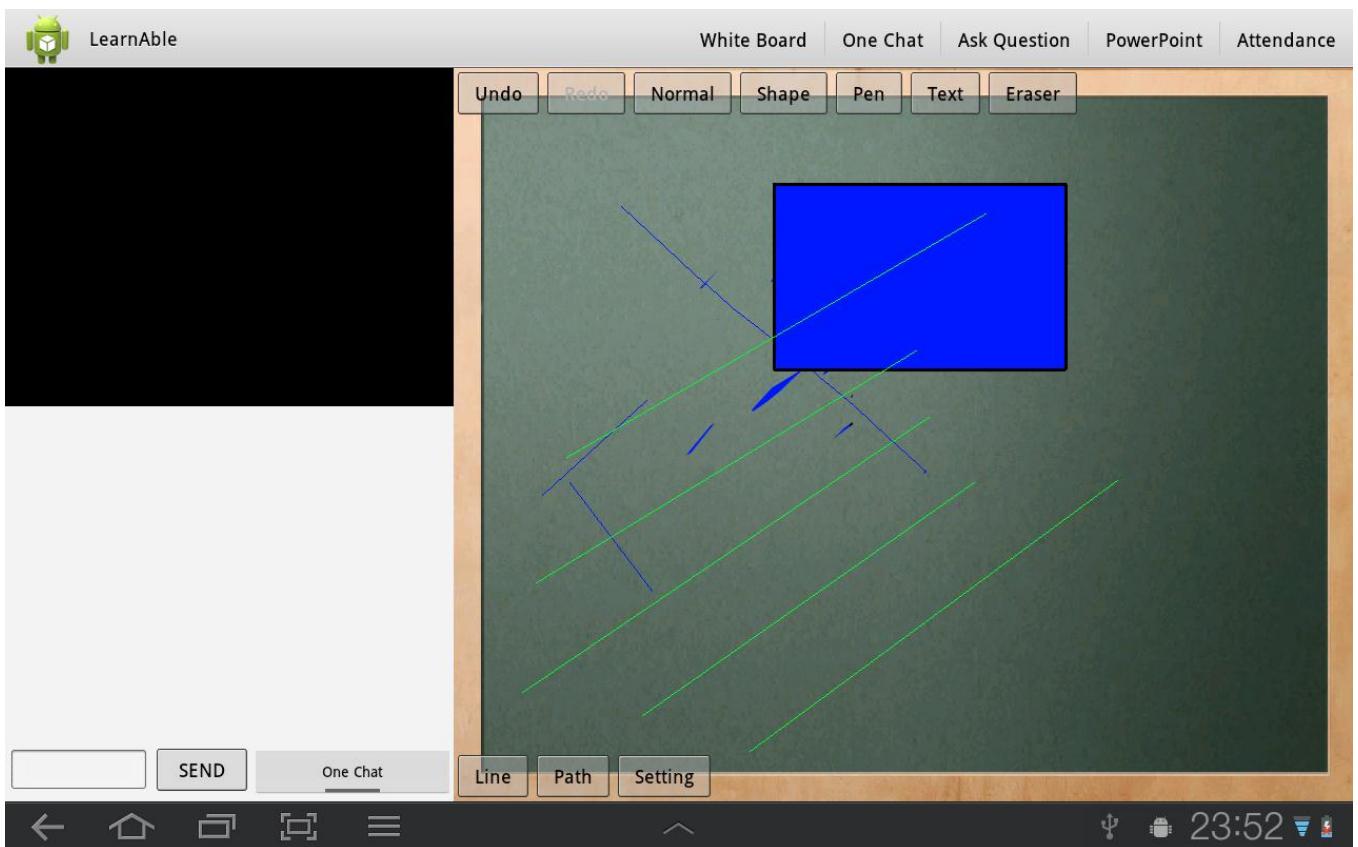
In this control, you could draw the line with favorable setting.

When you click the Pen button, submenu would show on the bottom



4.1 “Line” - Draw Line

- <1> Click “Line”
- <2> Touch the screen to draw
- <3> no matter what you draw , the line could be straight

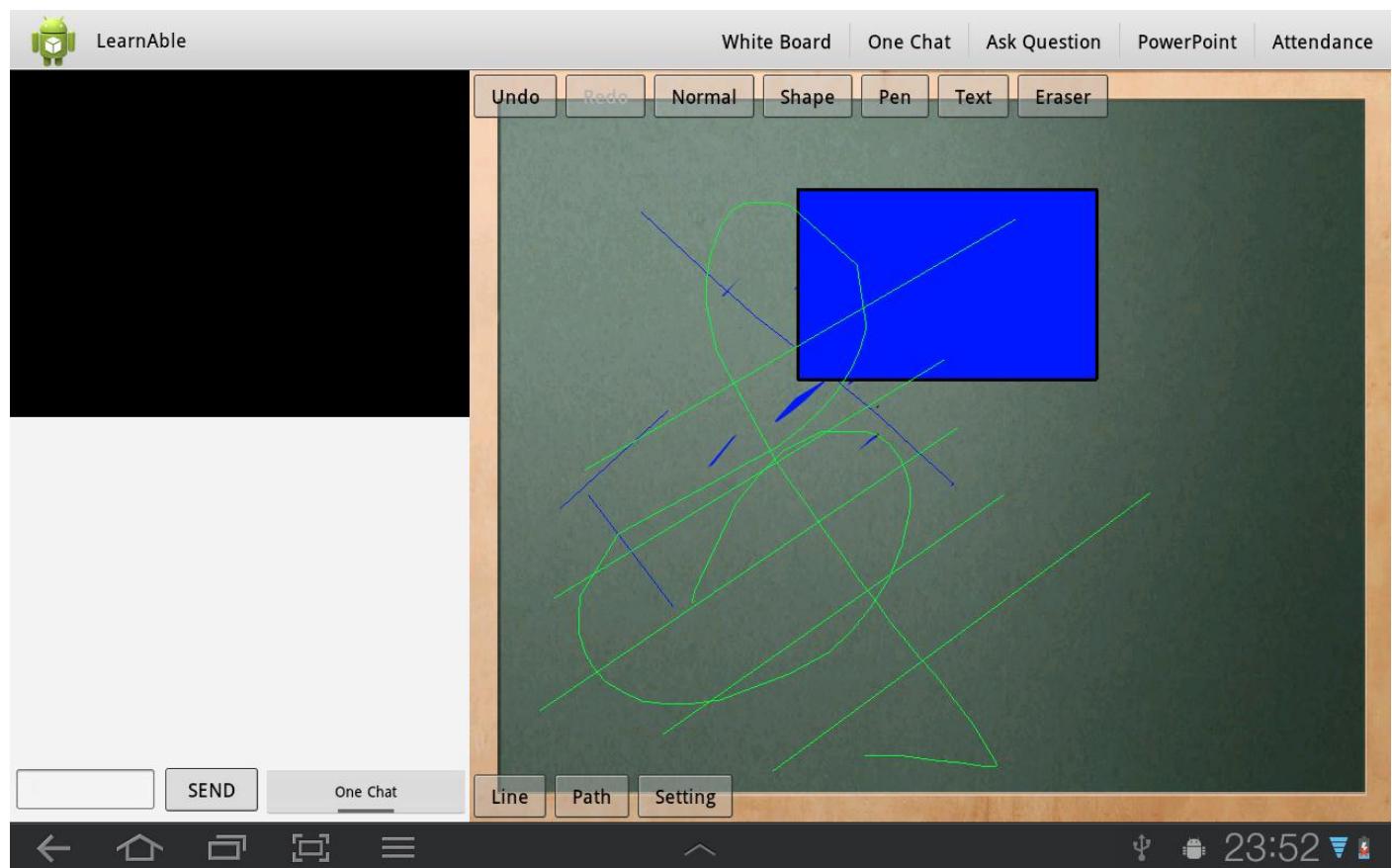


4.2 “Path” - Draw Path

<1> Click “Line”

<2> Touch the screen to draw

<3> According to you move , the path would be shown



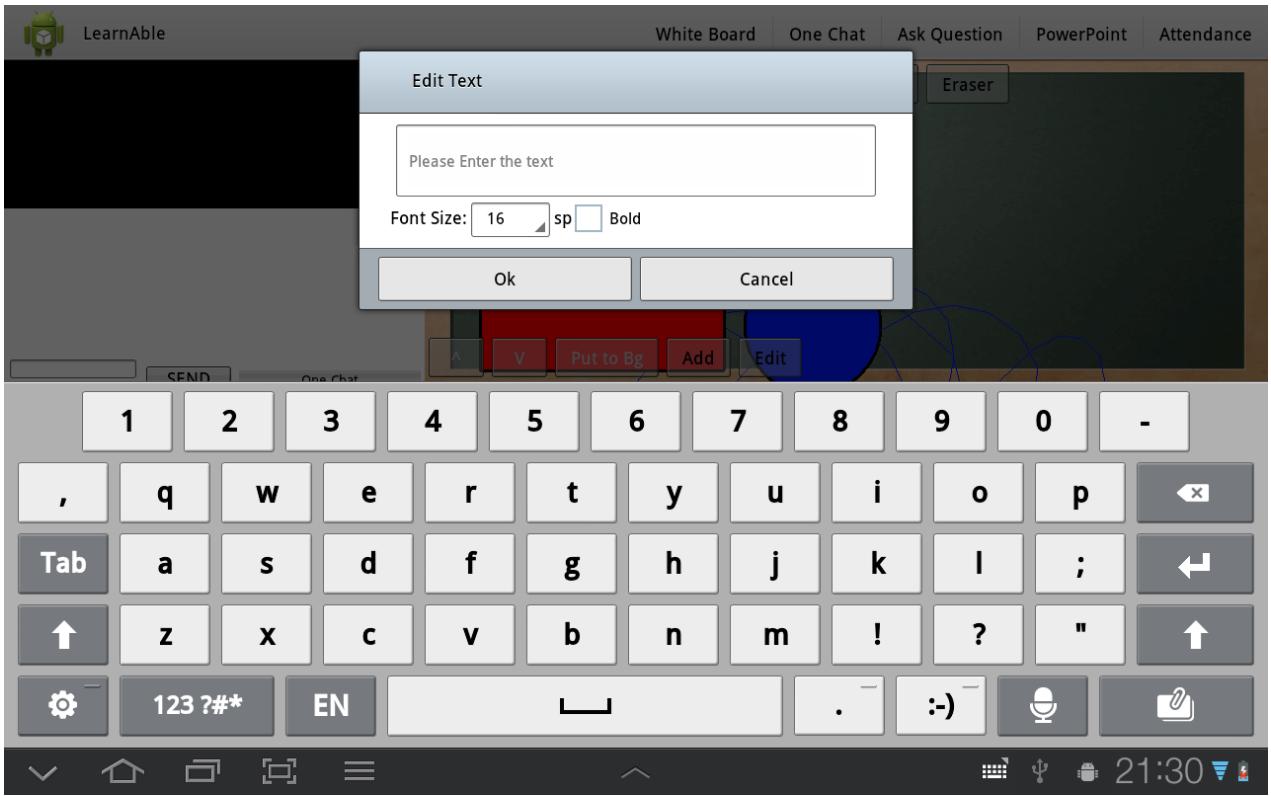
4.3 “Setting” - Change Setting

Please refer to 3.3

5. Text

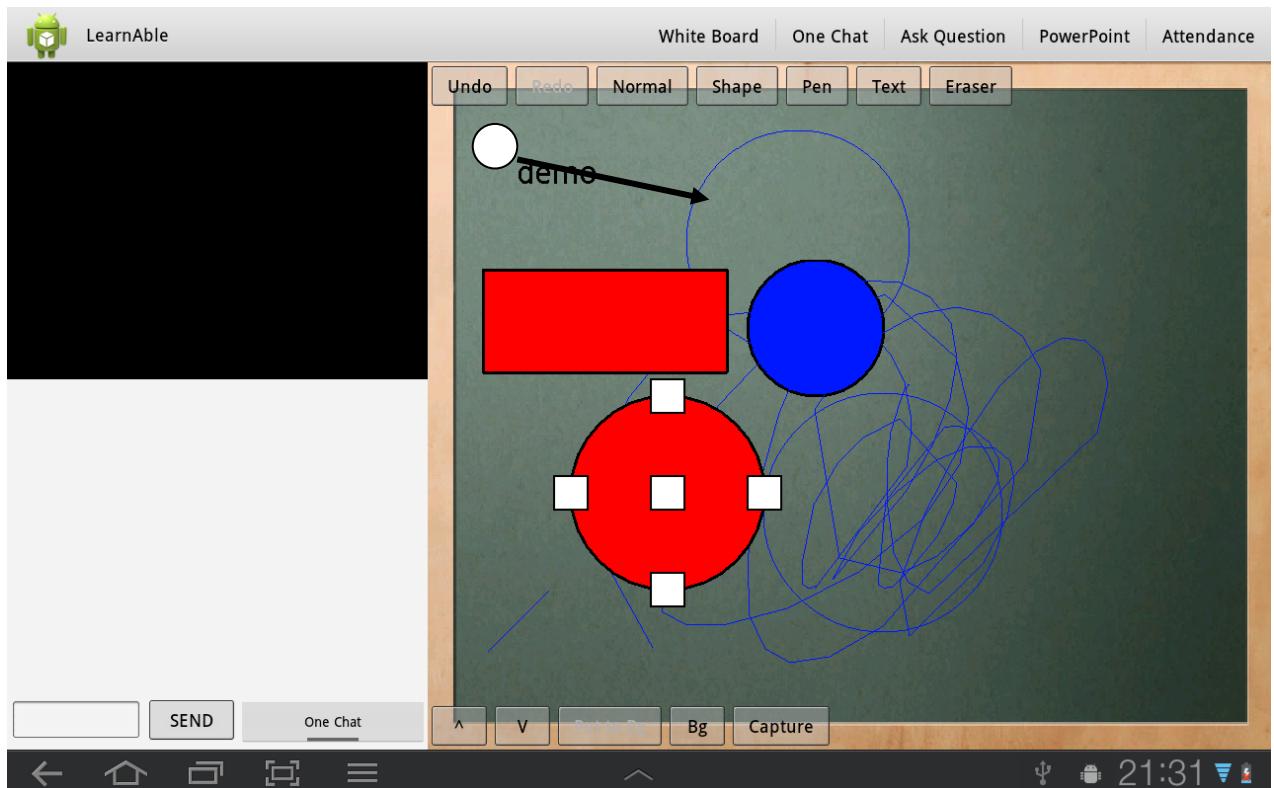
5.1 Enter Text

Click “Add” Button , and the input dialog box would be shown.



5.2 Drag the position

After enter the text , drag the position for the text



6. Eraser

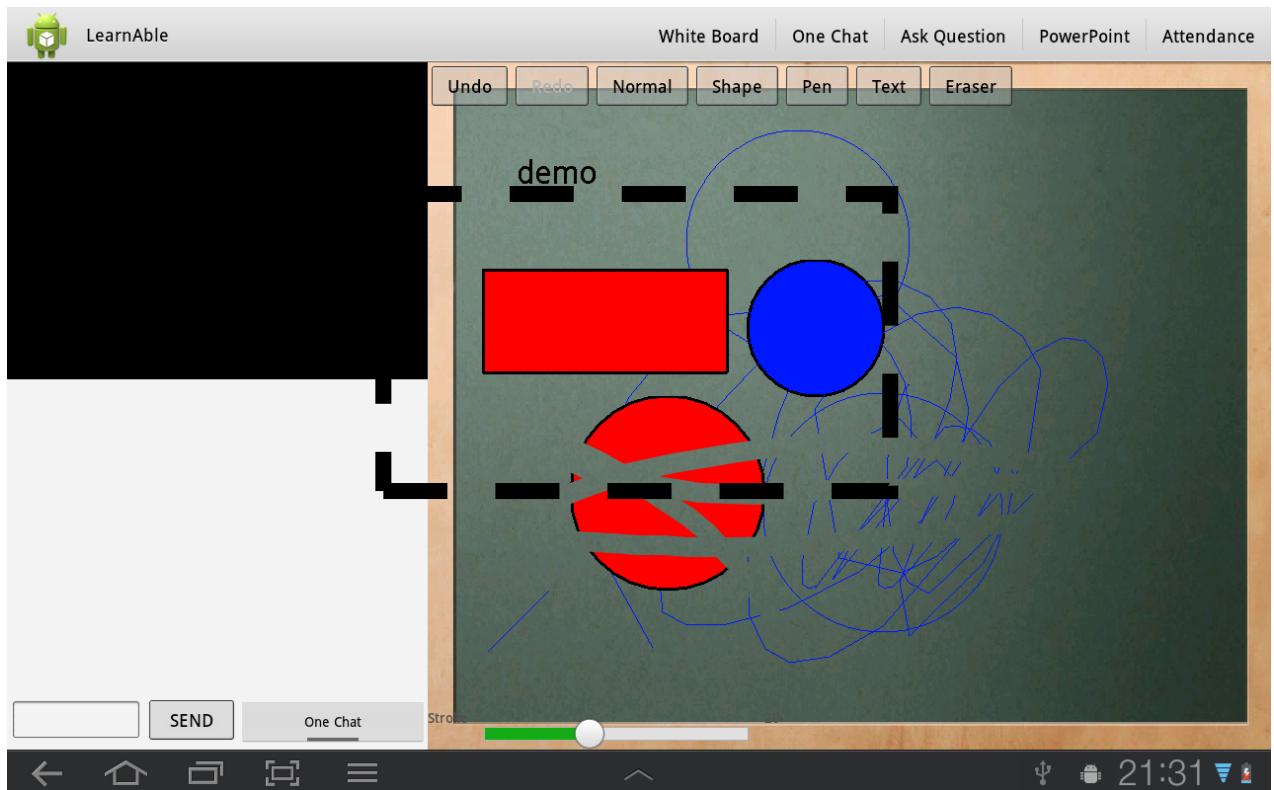
In this control, you could erase your drawing which is in the background

When you click the Eraser button, submenu would show on the bottom



6.1 Erase function

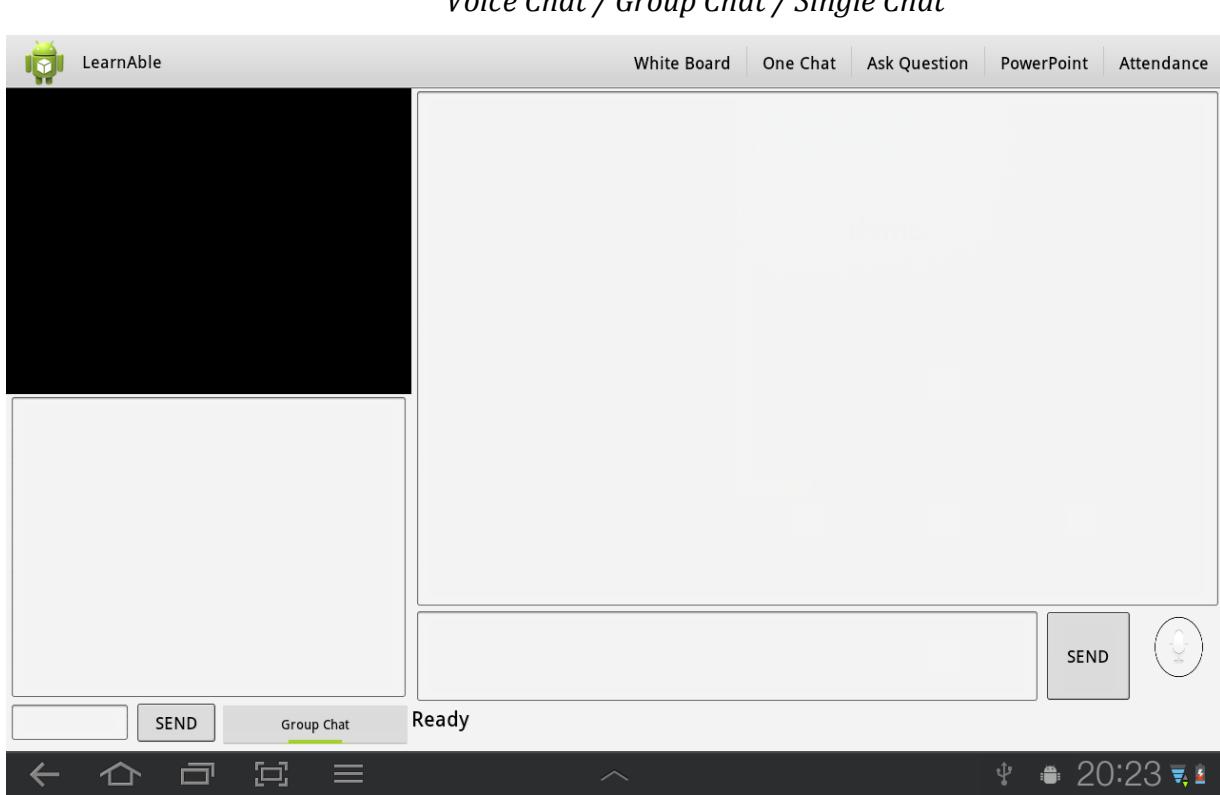
- <1> click "Eraser"
- <2> touch the screen to erase
- <3> only can erase the drawing which is in the background



6.2 Change Thickness

You could use the seekbar to change the thickness of eraser.



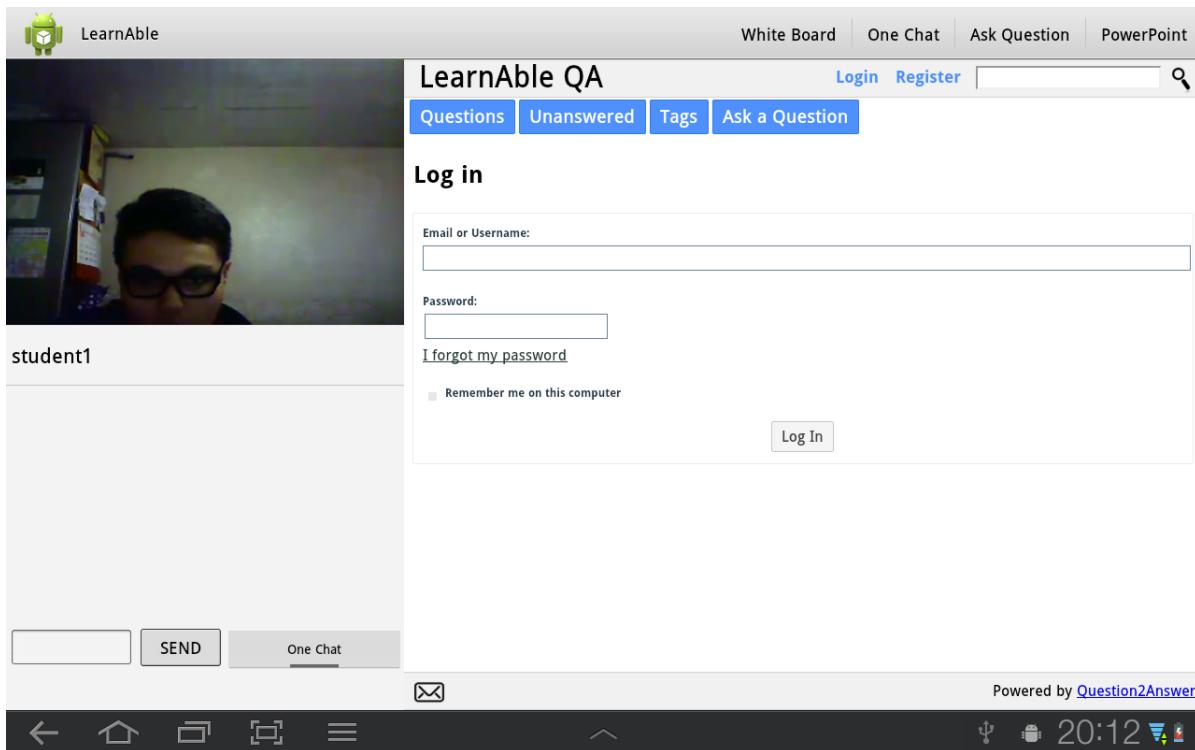


Group Chat

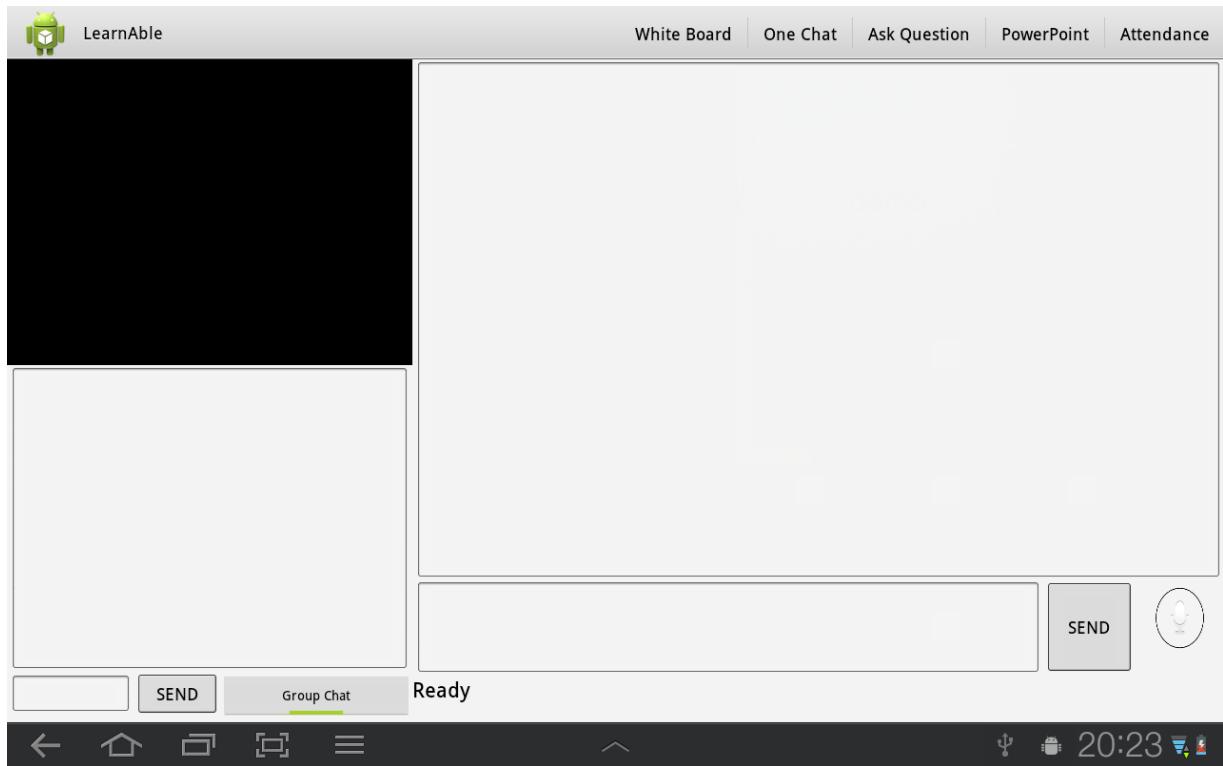
In Left Bottom Corner Edit Text area, It will show all the message in the chat room real-time. You can write some message in the edit box down below and click send.

Single Chat

Click “Group Chat” Button, it will return to “One Chat” Function



User in the chat room will be shown. Click the user name that you would like to talk with.



In right hand-side, similar with group chat. In Edit Text area, It will show all the message in the private chat room real-time. You can write some message in the edit box down below and click send.

Voice Chat

In the same page, you simply click the mic button right next to “Send”. It will just like a Walkie Talkie, you can listen to the people you communicate with and you can click the button to send the voice to the user.

Ask Question

The screenshot shows the 'LearnAble QA' website interface. At the top, there's a navigation bar with links for 'White Board', 'One Chat', 'Ask Question', 'PowerPoint', and 'Attendance'. Below this is a search bar with 'LearnAble QA' placeholder text and a magnifying glass icon. A secondary navigation bar below the search bar includes 'Questions', 'Unanswered', 'Tags', and 'Ask a Question'. The main content area is titled 'Log in' and contains fields for 'Email or Username' and 'Password', both with placeholder text. There are links for 'I forgot my password' and 'Remember me on this computer'. A 'Log In' button is at the bottom right. On the left side, there's a large black rectangular area, possibly a placeholder for a video or image. At the very bottom, there's a dark footer bar with icons for 'SEND', 'Group Chat' (which is underlined), a mail icon, and a timestamp '20:24'.

1. Ask Question Function will be shown first when the lesson page start.
2. If you would like to display again, click “Ask Question” in the navigation bar.

Attendance

The screenshot shows the LearnAble mobile application interface. At the top, there is a navigation bar with the 'LearnAble' logo and five tabs: 'White Board', 'One Chat', 'Ask Question', 'PowerPoint', and 'Attendance'. The 'Attendance' tab is currently selected. Below the navigation bar is a table showing student login and logout times. A 'Reload' link is located at the bottom of the table. The main area below the table is a large black rectangle, likely a placeholder for other content. At the bottom of the screen, there is a toolbar with several icons: a camera, a file, a list, a search icon, a 'SEND' button, and a 'Group Chat' button. On the far right of the bottom bar, the time '20:24' is displayed.

Student	Login Time	Logout Time
student1	2012-05-13 20:10:24	2012-05-13 20:17:17
student2	2012-05-13 01:49:37	2012-05-13 01:50:54

[Reload](#)

1. Attendance Function will be shown first when the lesson page start.
2. If you would like to display again, click “Attendance” in the navigation bar.

Student

Login



Login with your user id and user password. Click “Login Button” to proceed Login.

Attend Lesson

1. Click “Attend Lesson” in right top corner.

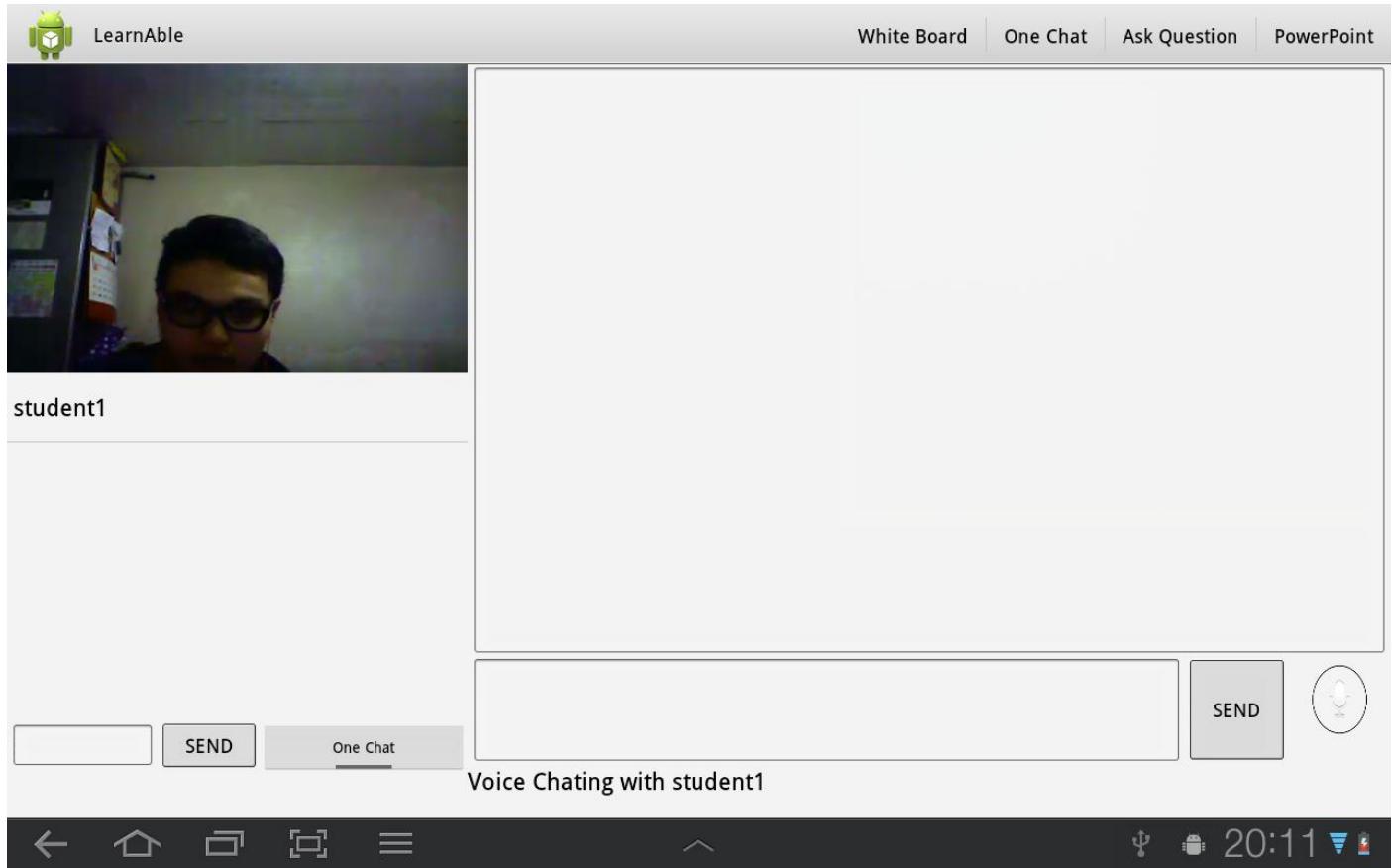
This screenshot shows the 'LearnAble' application after clicking 'Attend Lesson'. The top navigation bar remains the same. The main content area now displays a list of categories on the left: 'Live' (which is currently selected), 'Software Engineering', and 'Android'. To the right of these categories, a message 'No Lesson Available at this moment' is displayed. At the bottom of the screen, a progress bar indicates 'Updating Your Lesson List ... Please be Patient'. The bottom navigation bar includes icons for back, home, and other functions, along with the time '20:10'.

2. Choose Live or other categories in the left list. Right List will be show up to left choice.

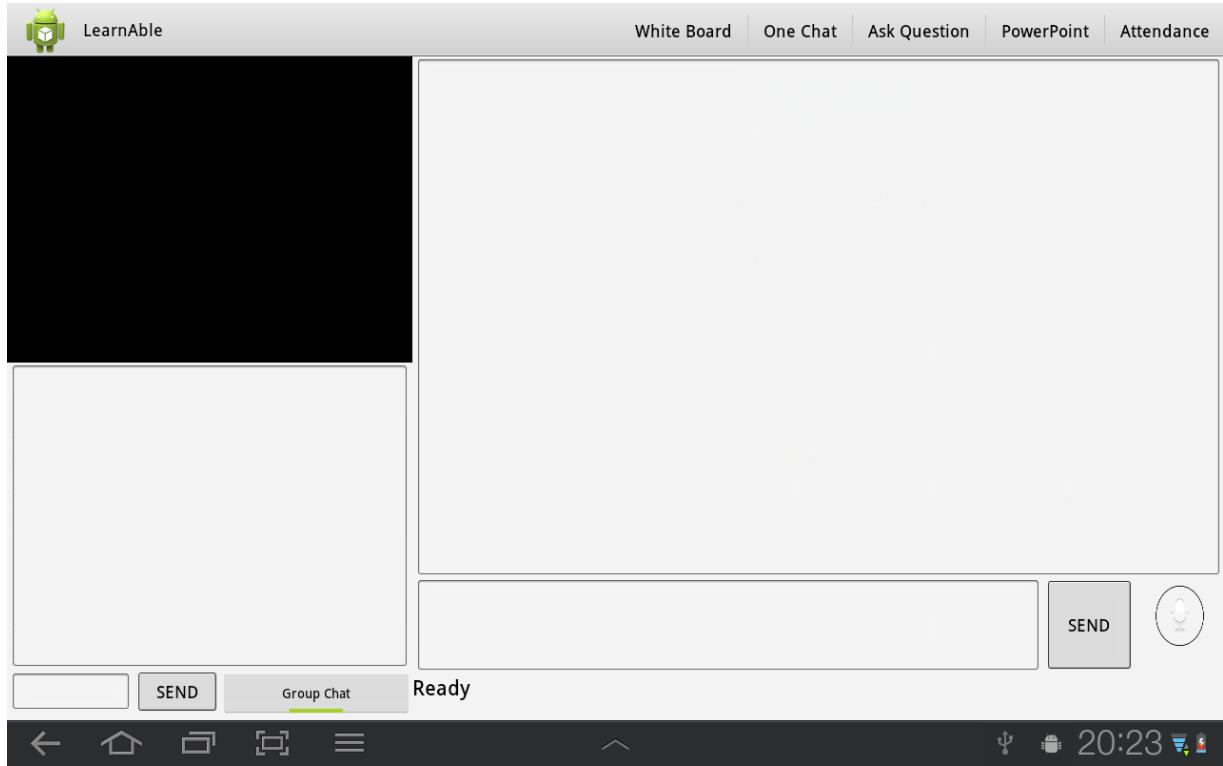
PowerPoint

The screenshot shows a mobile application interface for a video call and a presentation. At the top, there's a navigation bar with icons for 'LearnAble', 'White Board', 'One Chat', 'Ask Question', and 'PowerPoint'. Below the navigation bar, on the left, is a video feed of a student wearing glasses. On the right, a large slide titled 'Software Metrics' is displayed. The slide has a red horizontal line near the bottom. At the bottom of the screen, there are various control buttons: a message input field, a 'SEND' button, a 'One Chat' button, a 'Previous' button, a 'Page No.' input field containing '1', a 'Go' button, and a 'Next' button. The bottom right corner shows the time as '20:11'.

1. PowerPoint Function will be shown first when the lesson page start.
2. If you would like to display again, click “PowerPoint” in the navigation bar.
3. When teacher locate the new slide, you will turn to the same page at the same time.



Voice Chat / Group Chat / Single Chat

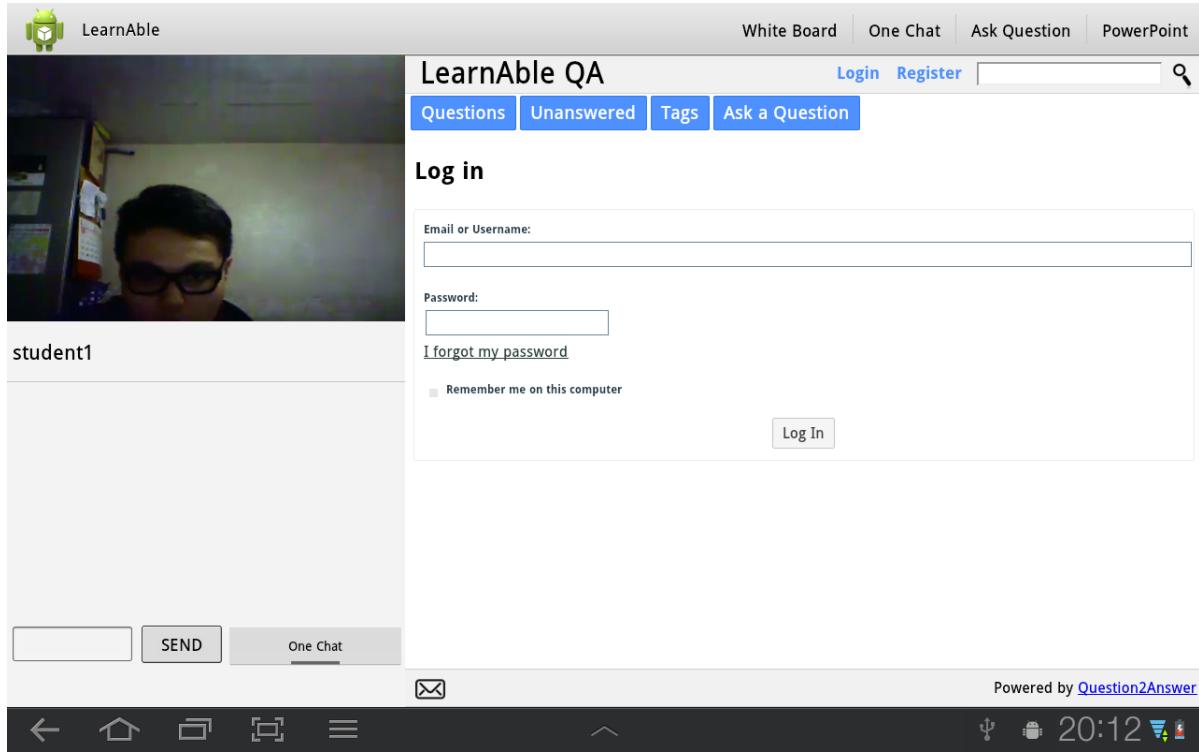


Group Chat

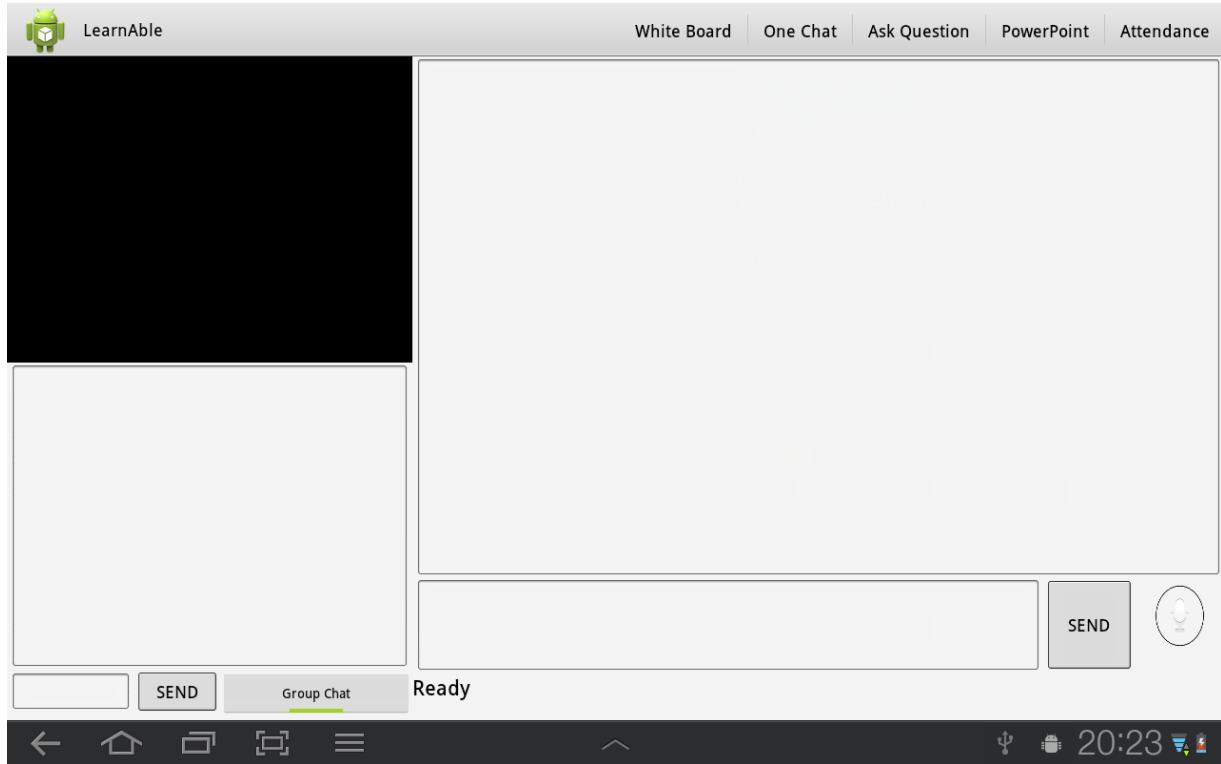
In Left Bottom Corner Edit Text area, It will show all the message in the chat room real-time. You can write some message in the edit box down below and click send.

Single Chat

Click “Group Chat” Button, it will return to “One Chat” Function



User in the chat room will be shown. Click the user name that you would like to talk with.



In right hand-side, similar with group chat. In Edit Text area, It will show all the message in the private chat room real-time. You can write some message in the edit box down below and click send.

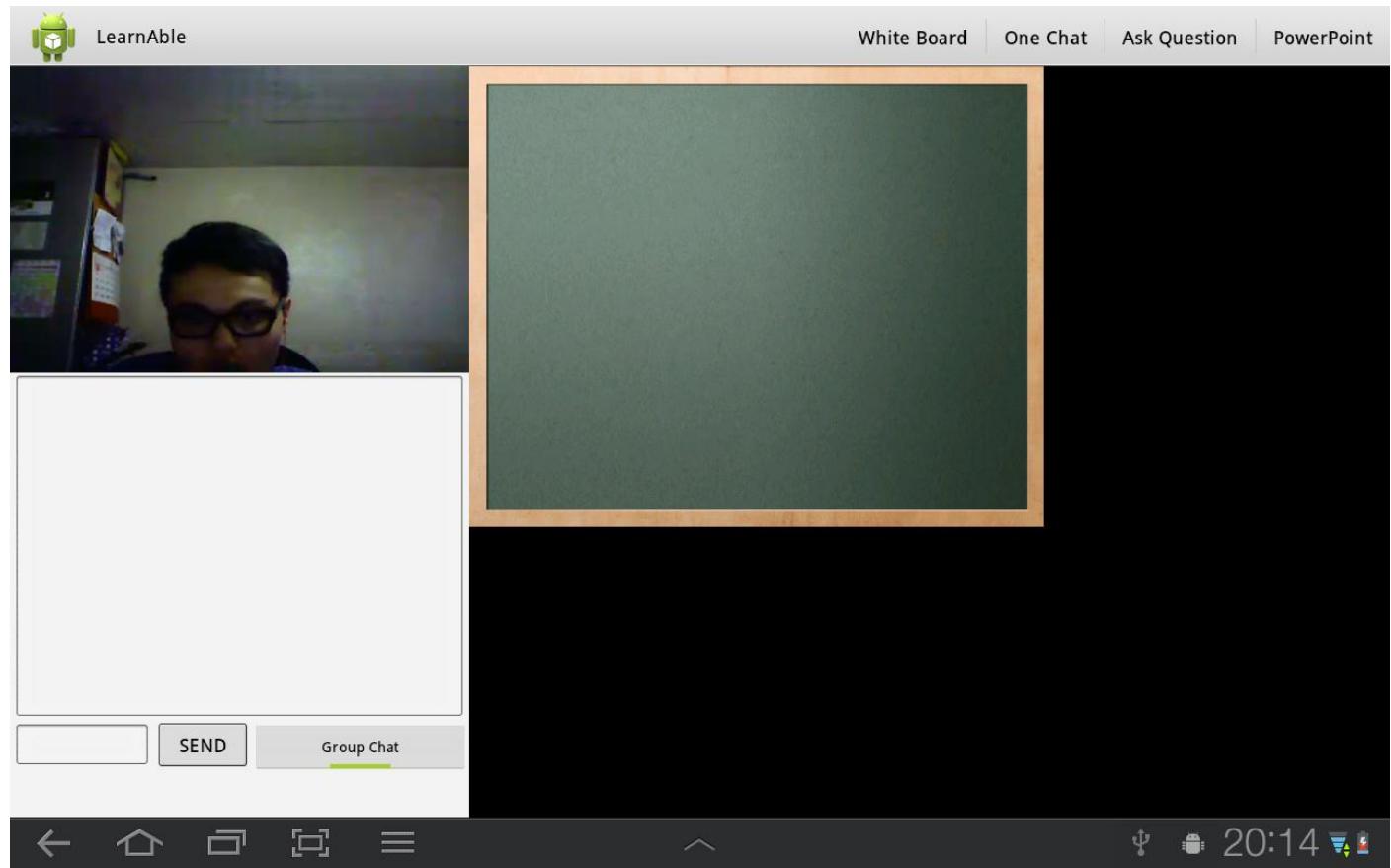
Voice Chat

In the same page, you simply click the mic button right next to “Send”. It will just like a Walkie Talkie, you can listen to the people you communicate with and you can click the button to send the voice to the user.

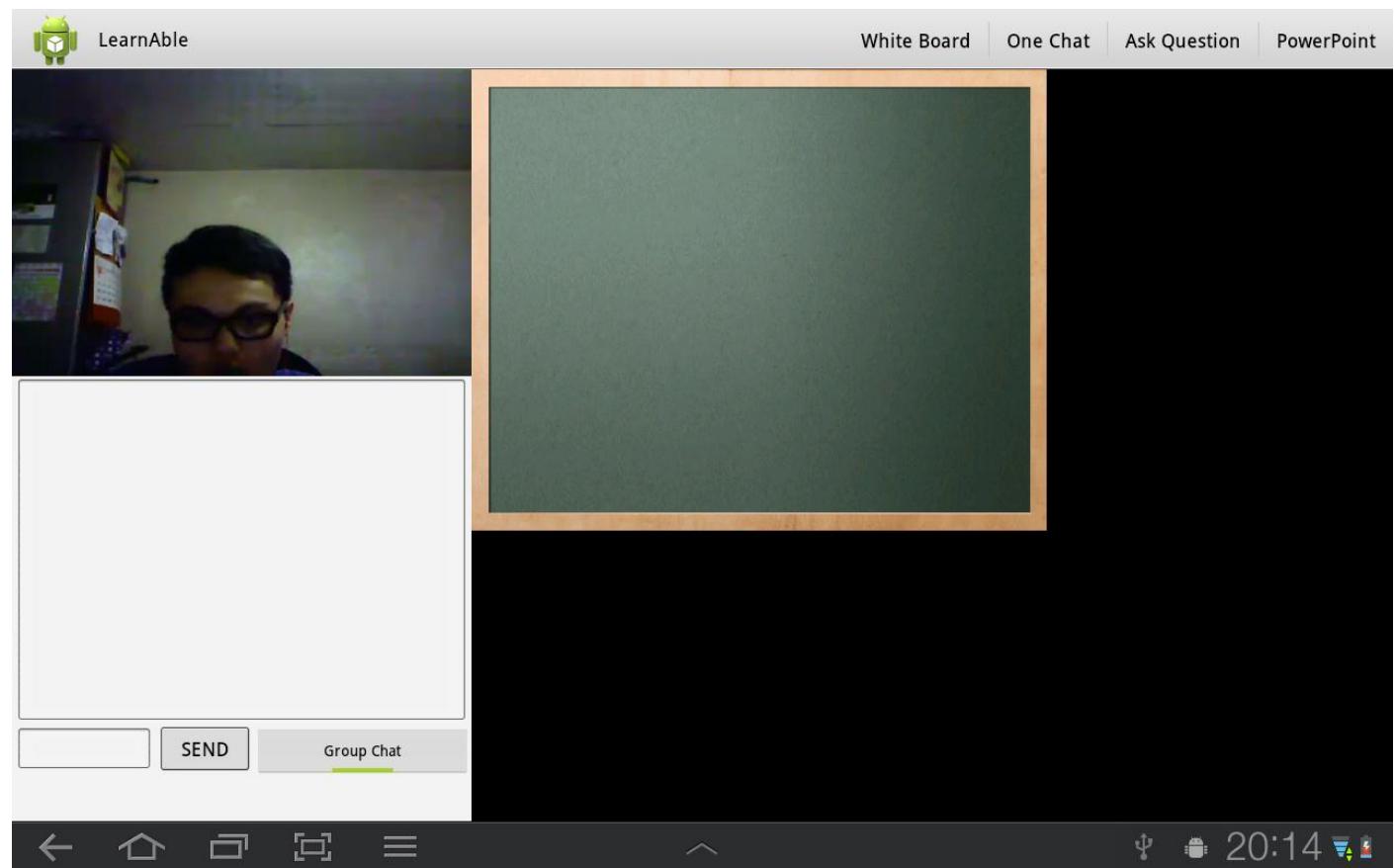
Ask Question

The screenshot shows the LearnAble QA website. At the top, there is a navigation bar with links for "White Board", "One Chat", "Ask Question", and "PowerPoint". On the left, there is a video feed of a student wearing glasses. Below the video feed, the student's name "student1" is displayed. On the right, the main content area shows the "LearnAble QA" logo and a search bar. Below the logo, there are four buttons: "Questions", "Unanswered", "Tags", and "Ask a Question". The "Ask a Question" button is highlighted in blue. Below these buttons, the word "Log in" is displayed. The login form contains fields for "Email or Username" and "Password", both of which are currently empty. There is also a link "I forgot my password" and a checkbox for "Remember me on this computer". A "Log In" button is located at the bottom right of the form. At the very bottom of the page, there is a footer with icons for back, forward, home, and other navigation functions, along with the text "Powered by Question2Answer" and the time "20:12".

1. Ask Question Function will be shown first when the lesson page start.
2. If you would like to display again, click “Ask Question” in the navigation bar.

White Board

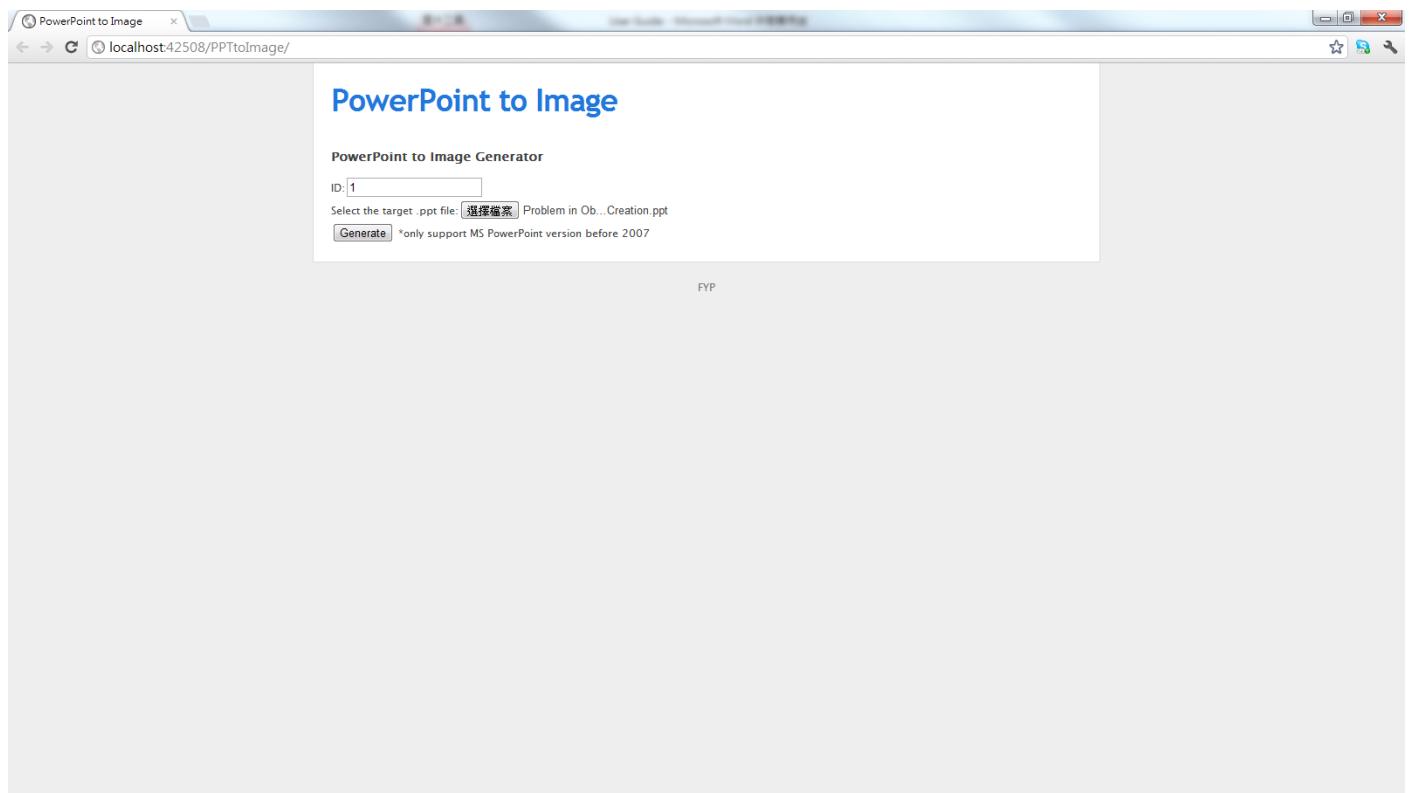
1. White Board Function will be shown first when the lesson page start.
2. If you would like to display again, click “White Board” in the navigation bar.
3. When teacher draw anything, you will show at the same time.

Video Live Streaming

PowerPoint to Image

Teacher could upload the original PowerPoint to the server for later use.

1. Go to the upload page



2. Enter the lesson id and choose the file

PowerPoint to Image

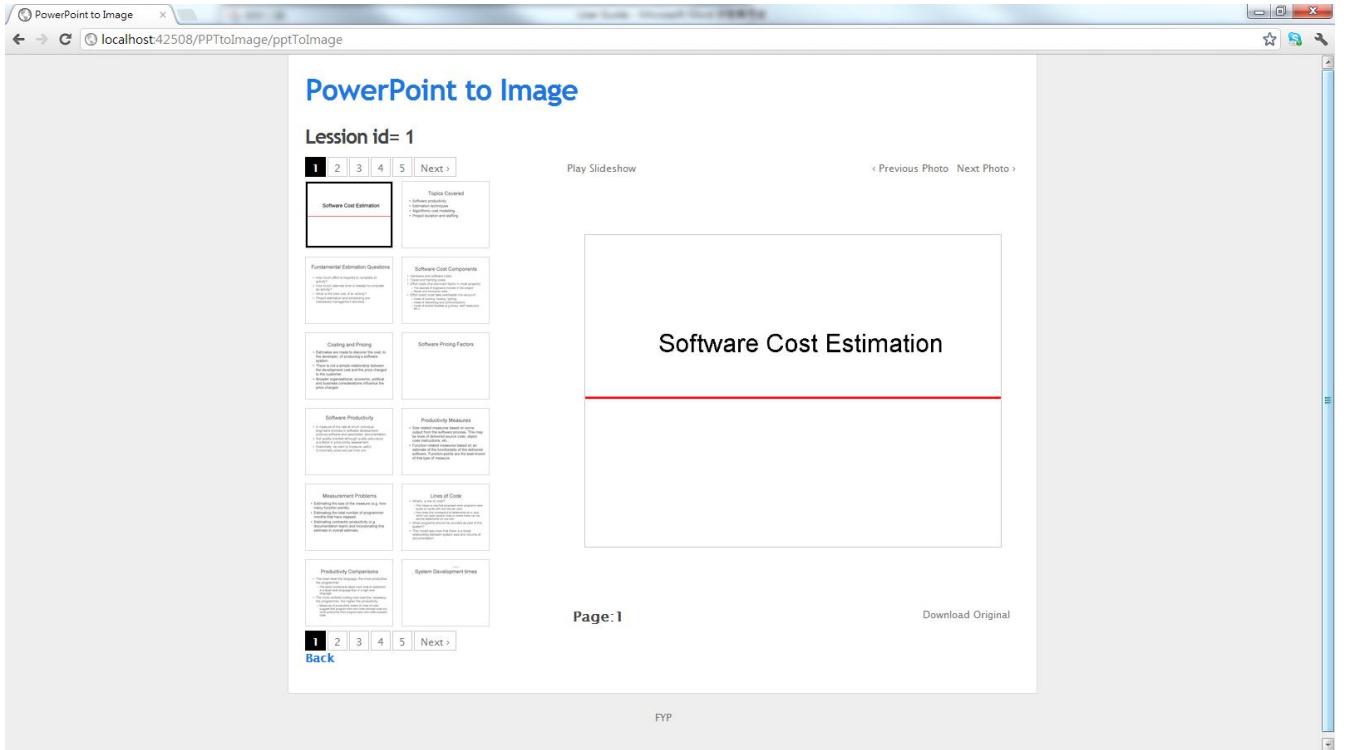
PowerPoint to Image Generator

ID:

Select the target .ppt file: H1aUsability.ppt

*only support MS PowerPoint version before 2007

3. If success , the result could be shown



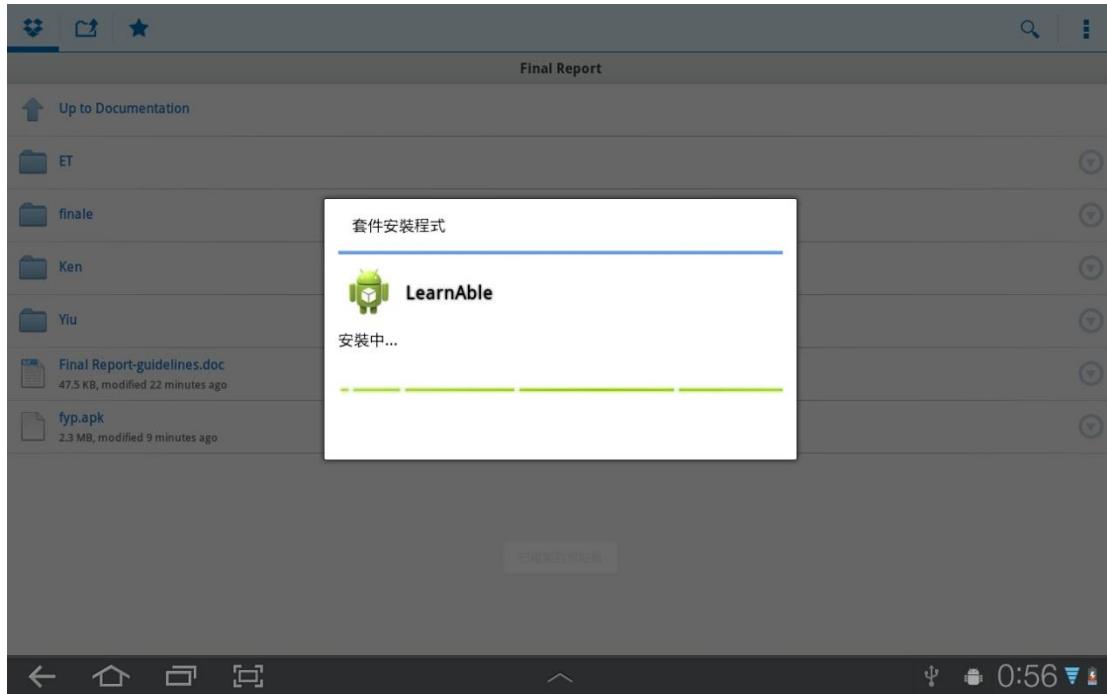
- 3.1 You could click the right menu to view the slide
 3.2 You could click Play Slideshow to let the slide play automatically.
 4. If not success , you would back to upload page

Installation Guide

Android Application



1. Download our application and open it. Click Install.

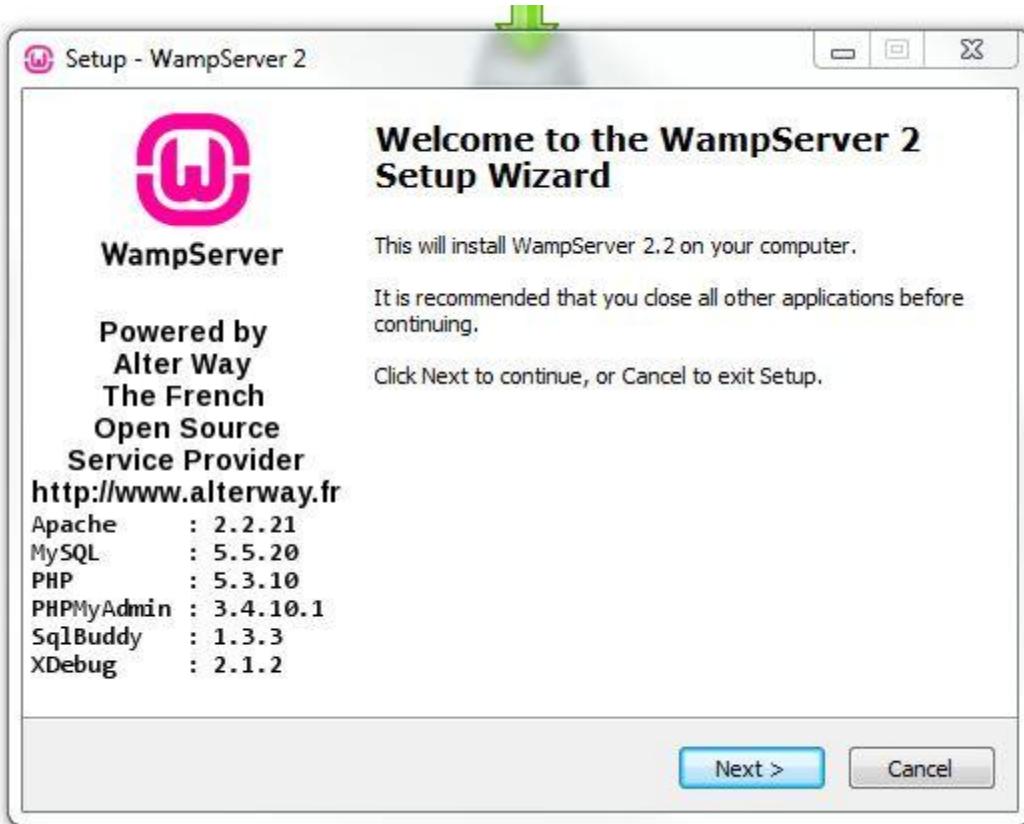


2. Installing

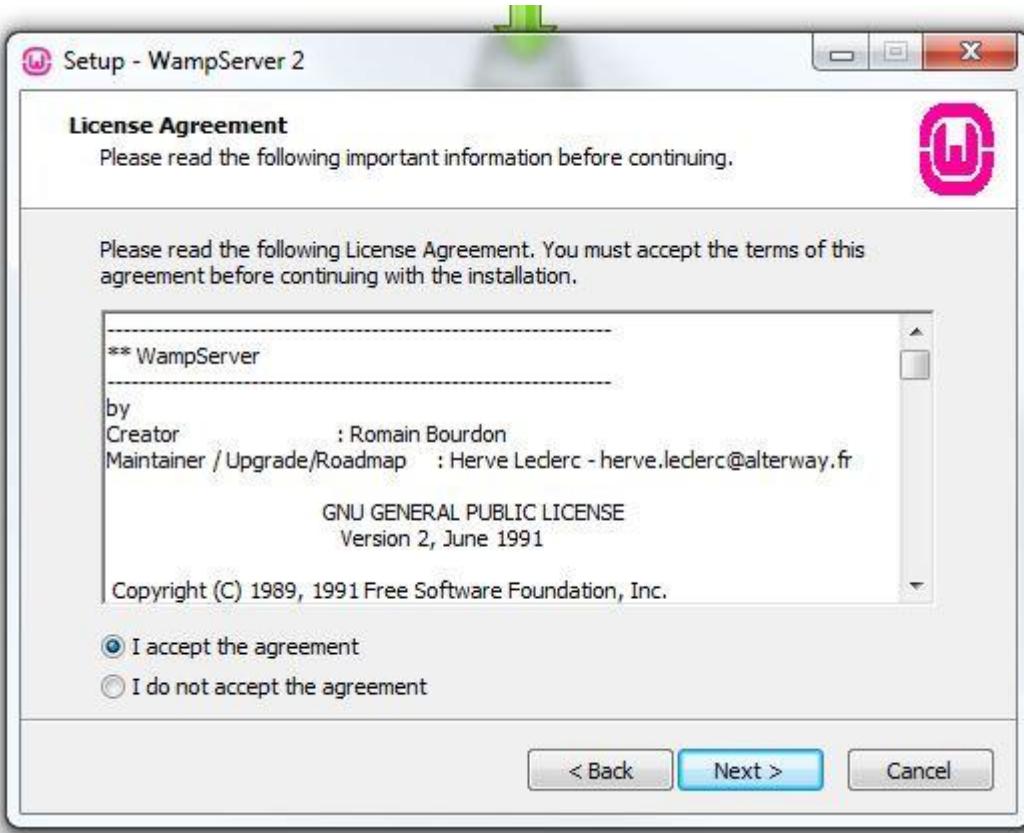


3. Install successfully. It will show our main page.

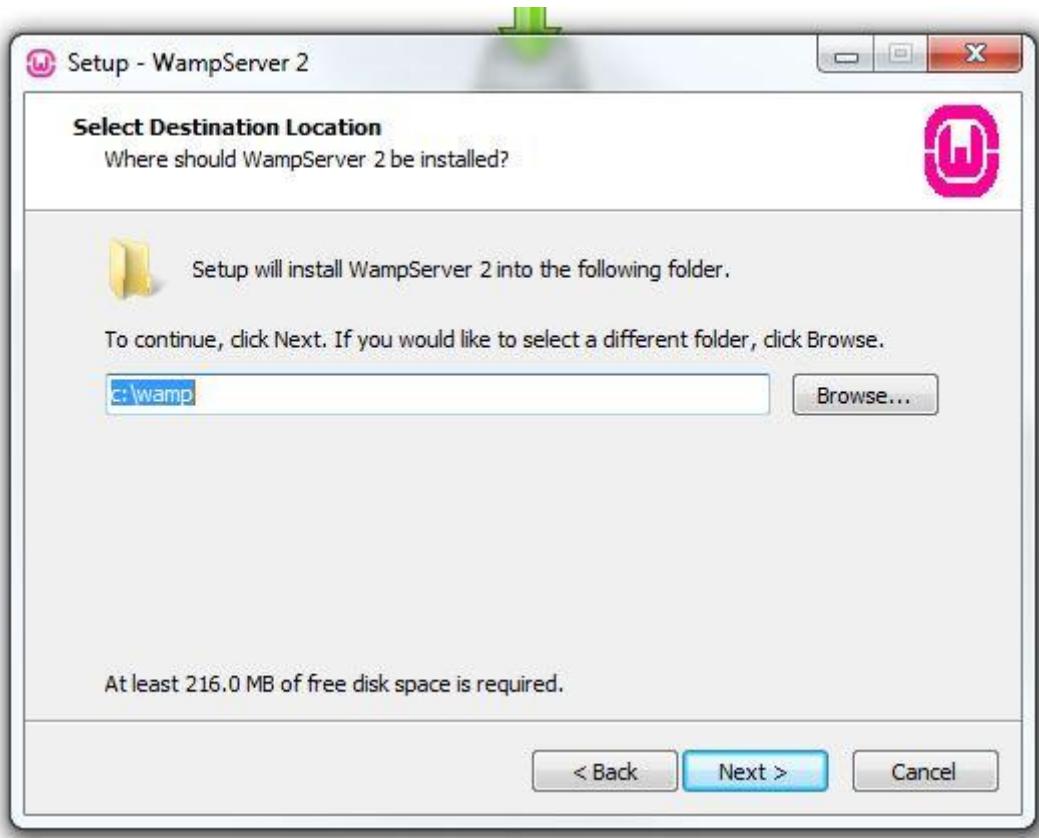
Wamp Server (PHP / MYSQL Server)



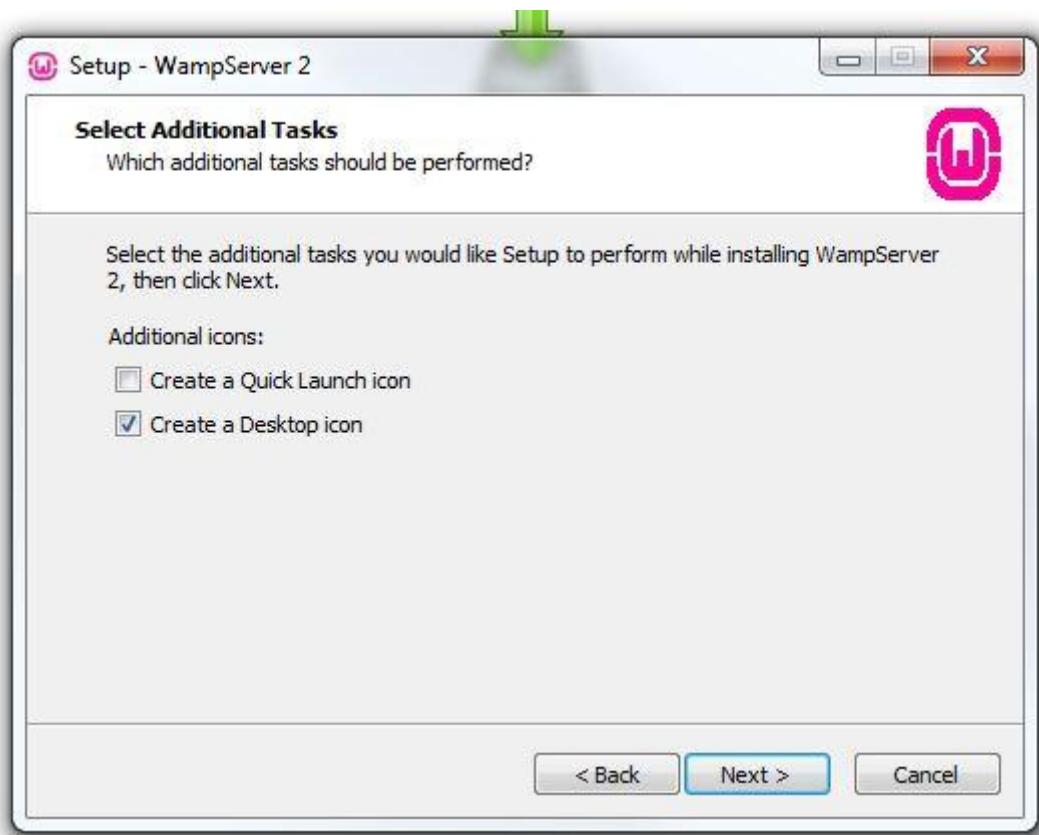
1. Install from the package. Click Next



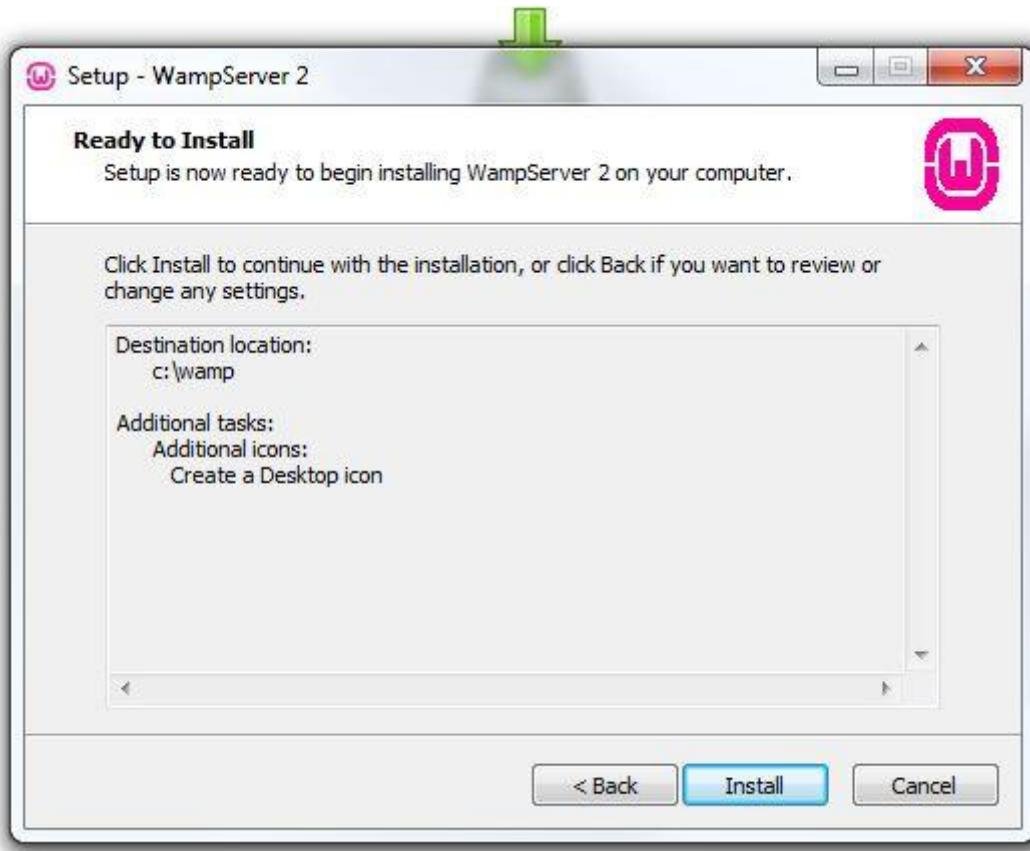
2. Agree the stateent



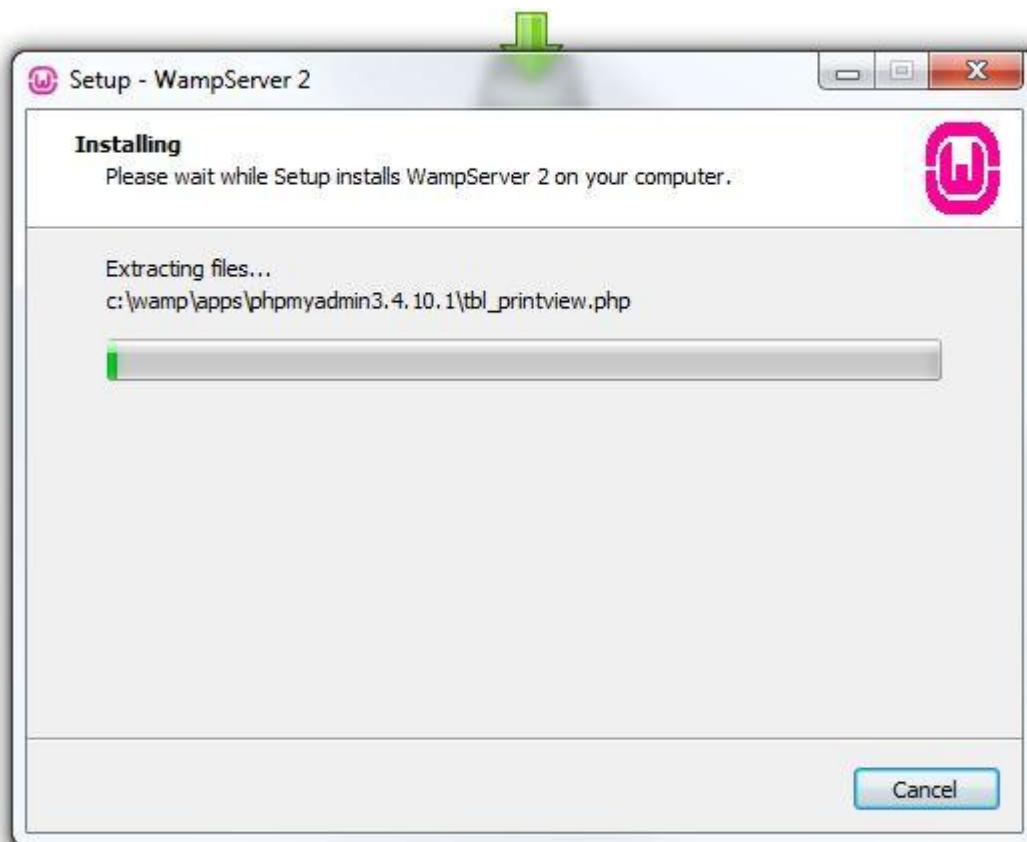
3. Set the destination path



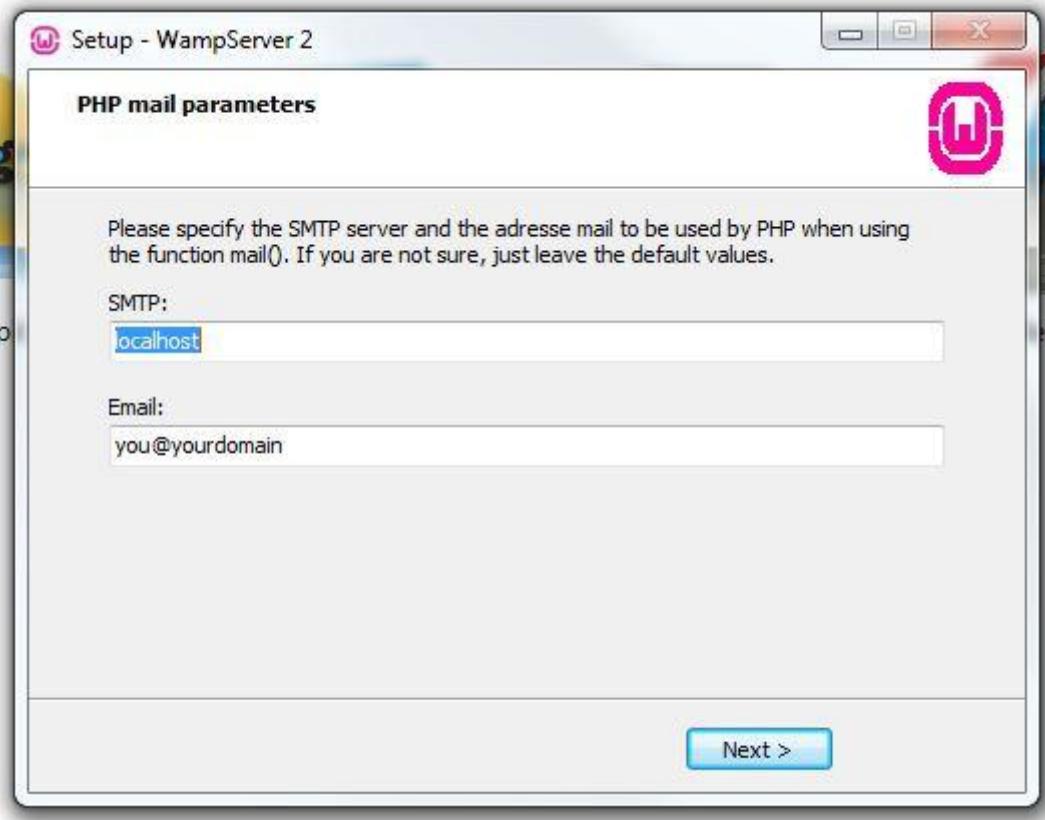
4. Optional Choice. Click Next



5. Installation Information. Click Next



6. Install in progress



7. Optional Setting for SMTP Server



8. Right Click icon and click start all services to run server

Openfire Server (IM Server)

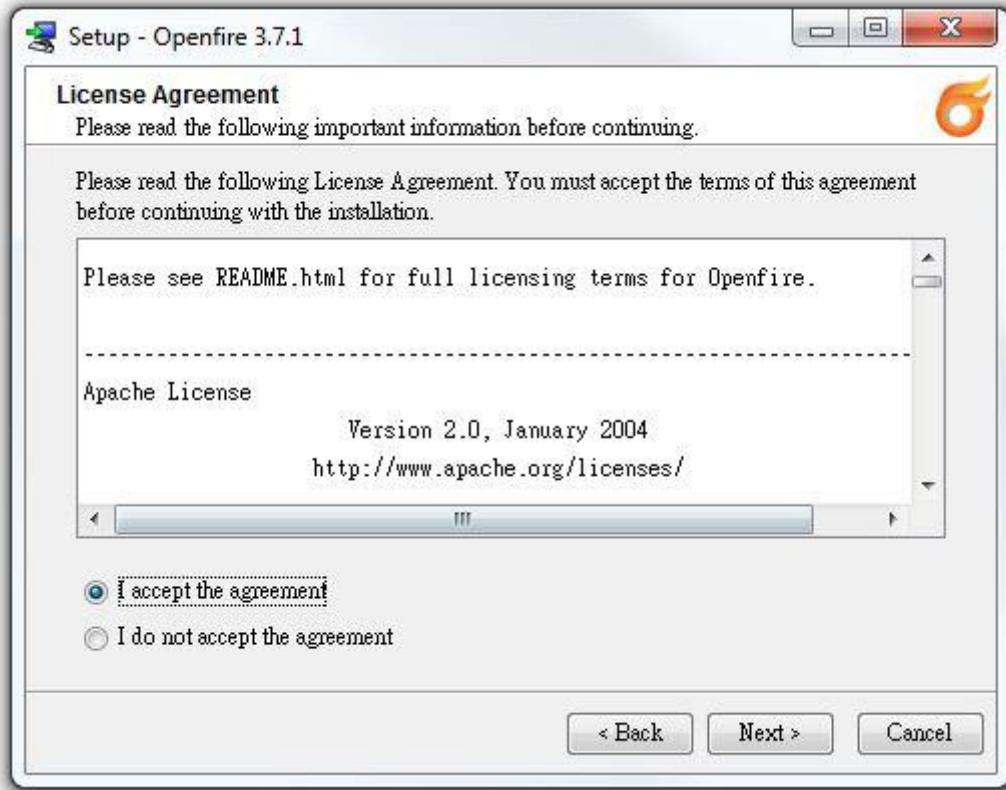
1. Install from package



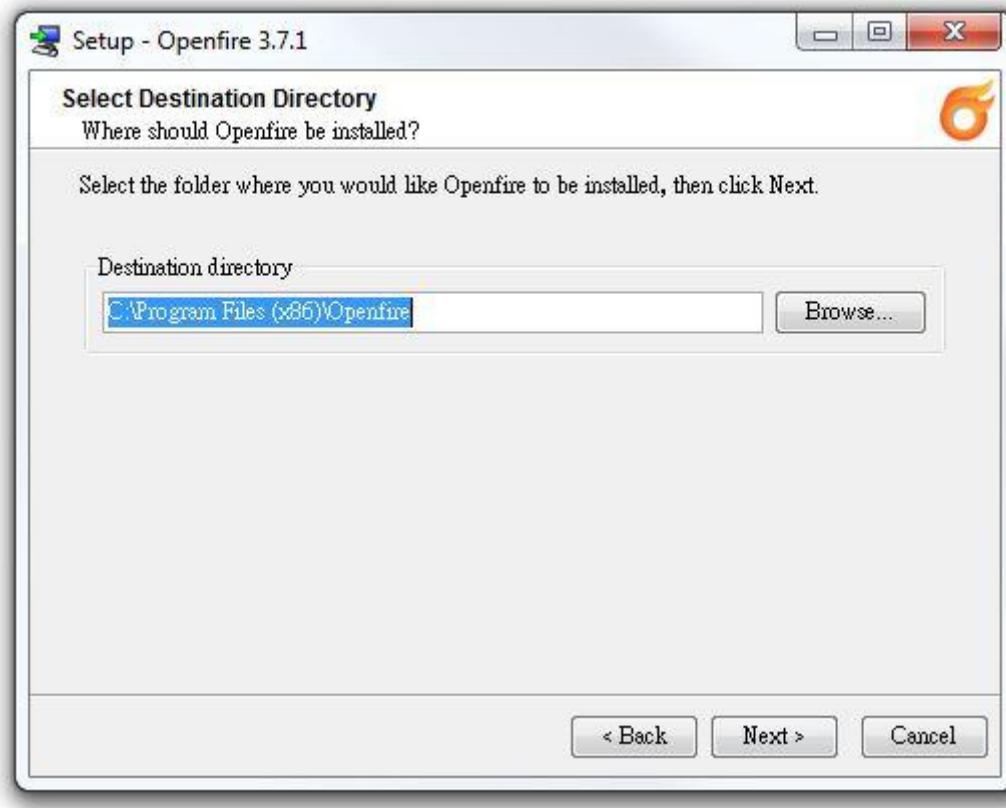
2. Select Language



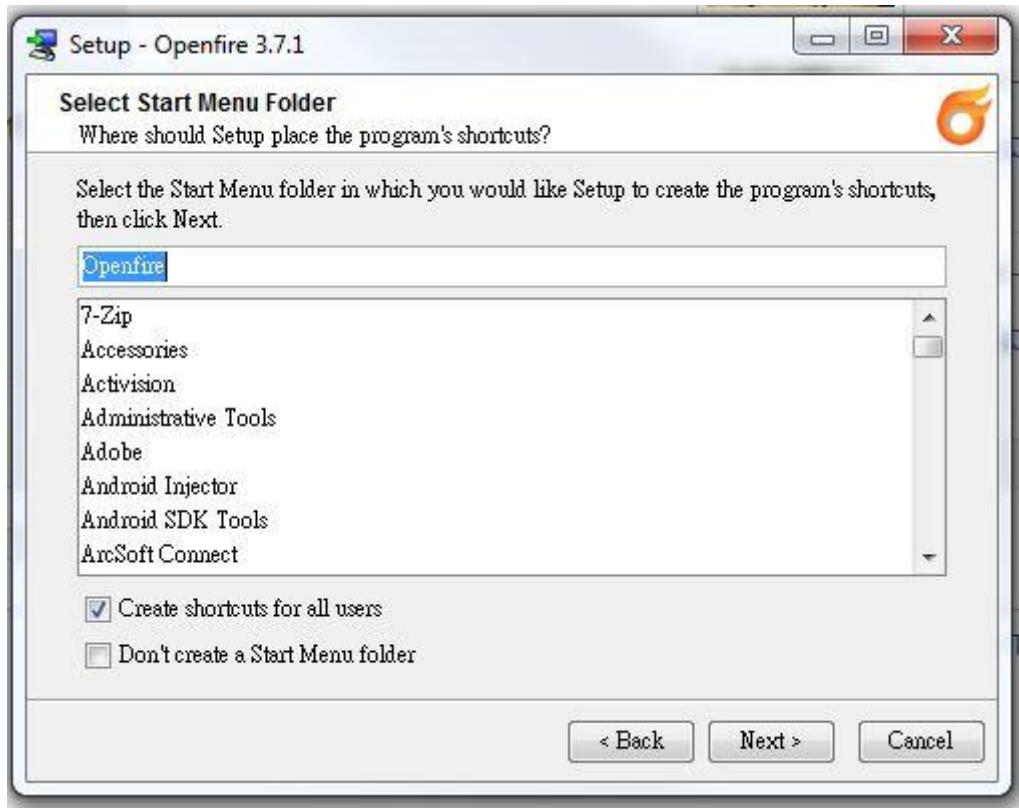
3. Click Next



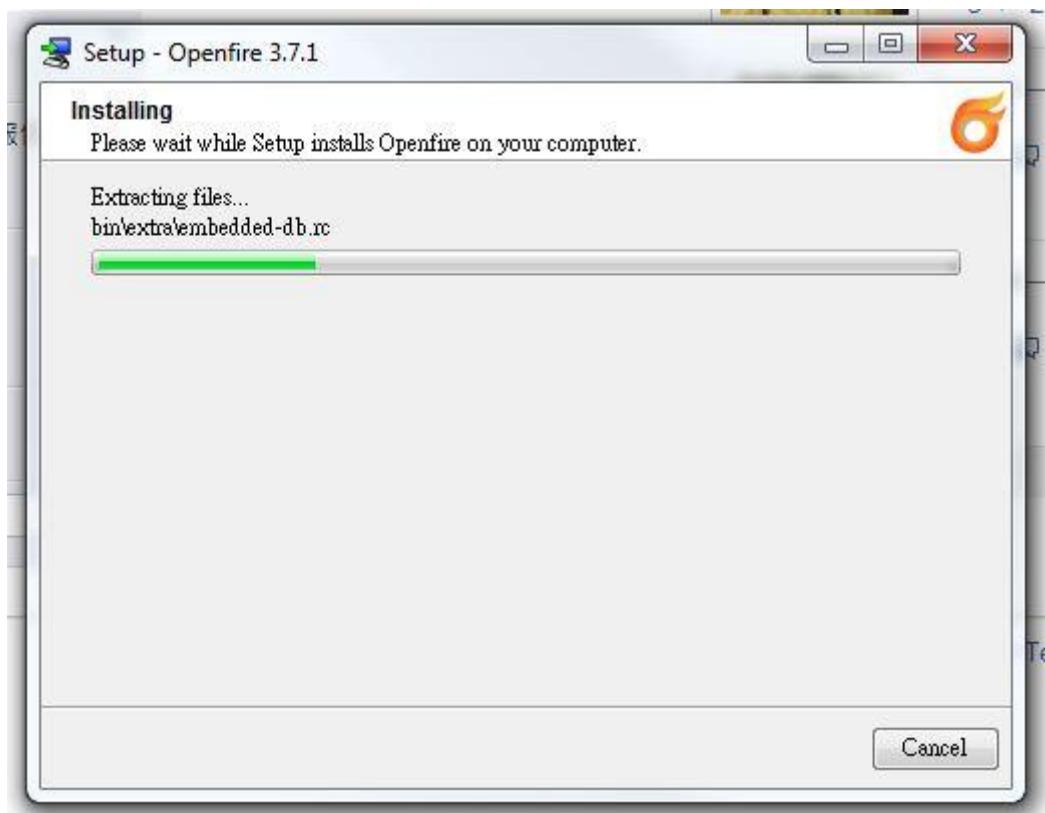
4. Agree the statement and click next



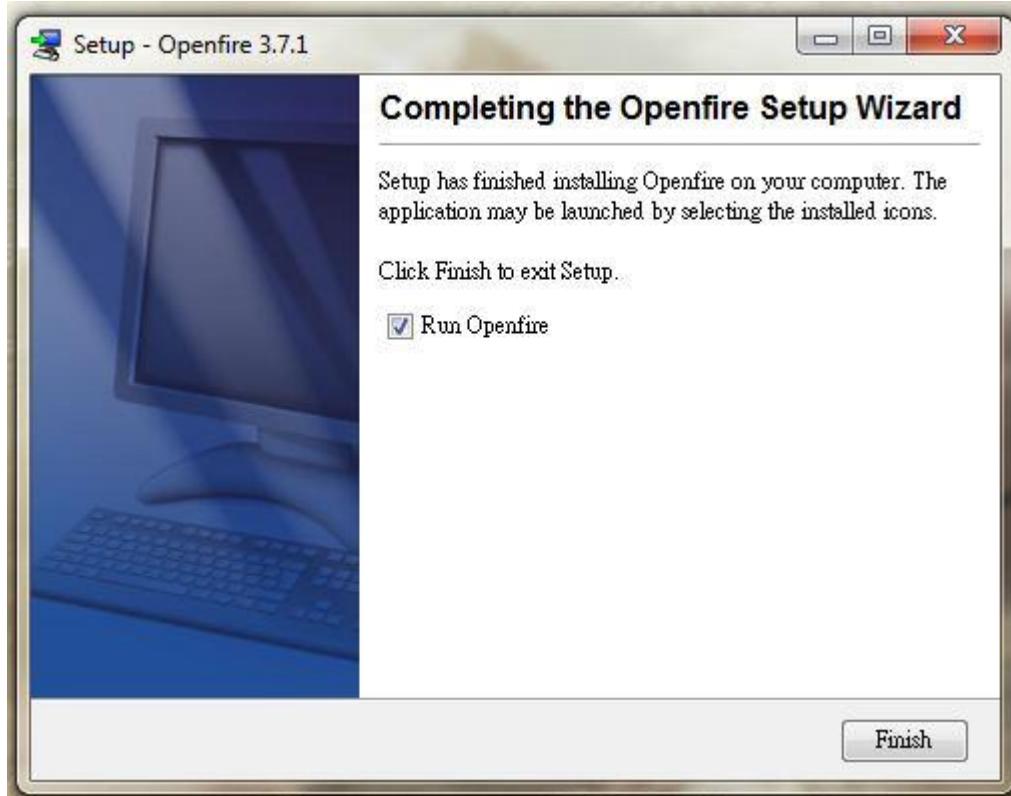
5. Set Destination



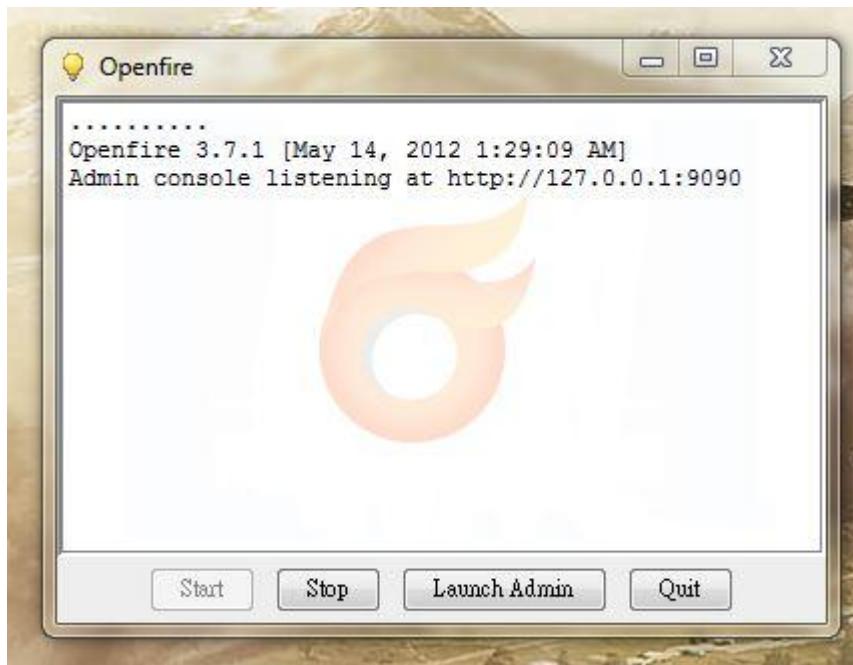
6. Set Menu Folder



7. Install in progress

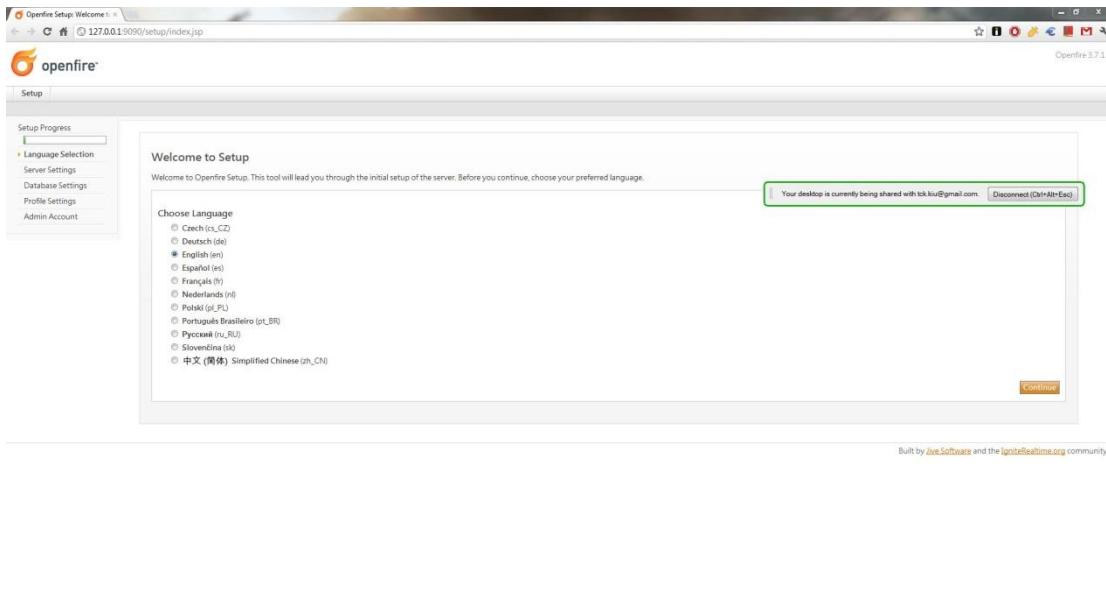


8. Click Finish to run openfire

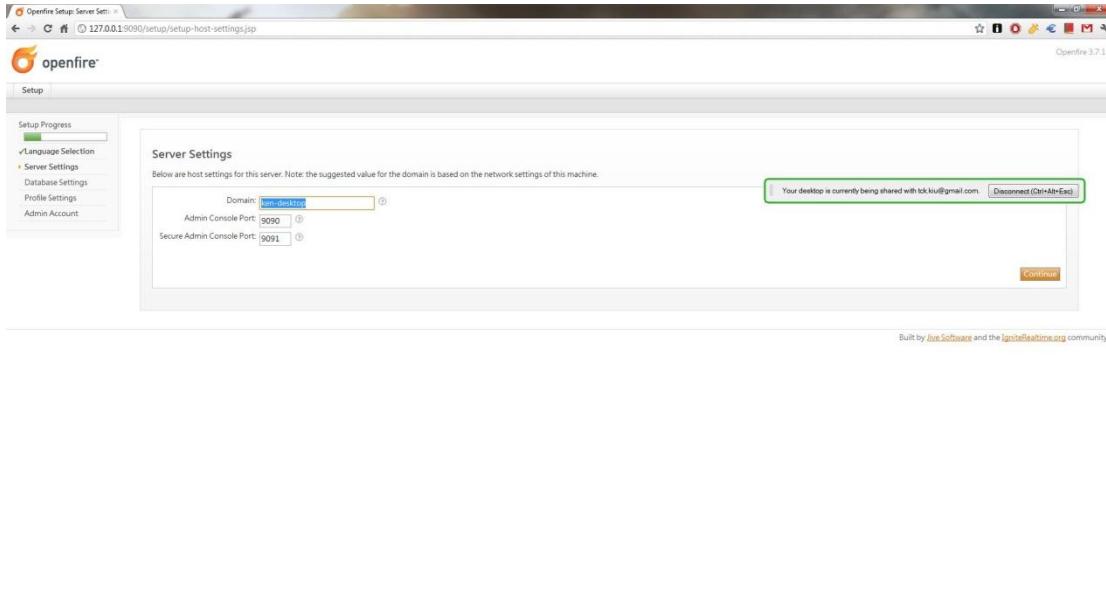


9. Server On. Click Launch Admin

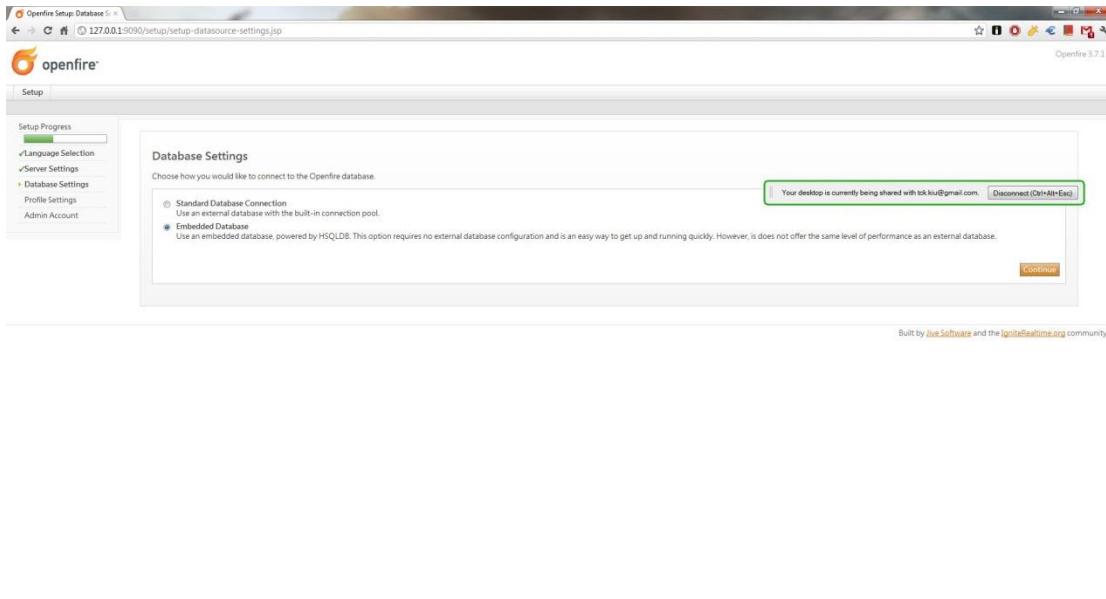
A43



10. Set Server Language

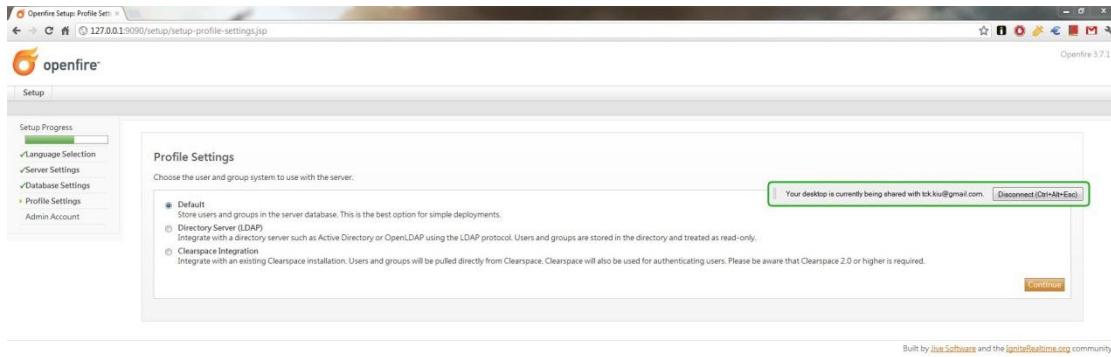


11. Set Domain Name



A44

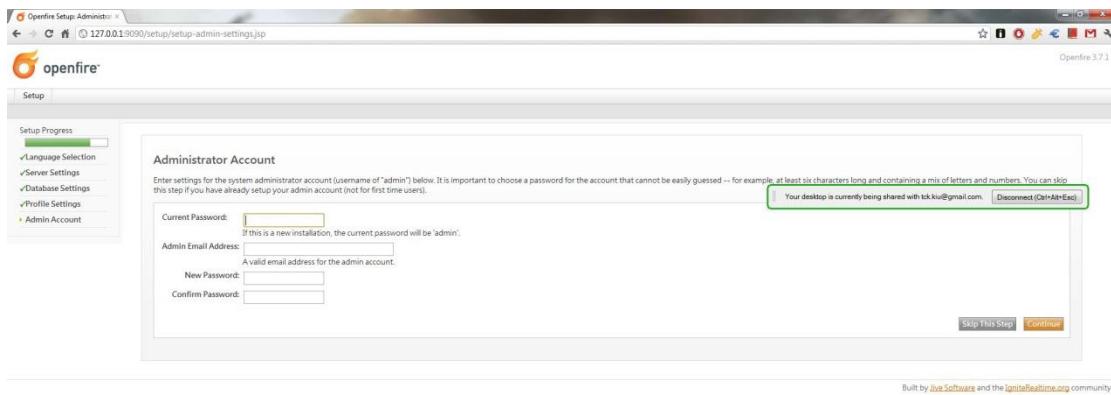
12. Set Database schema. We suggest use embed database.



Your desktop is currently being shared with tskku@gmail.com [Disconnect (Ctrl+Alt+Esc)]

Built by [Iván Software](#) and the [IgniteRealtime.org](#) community

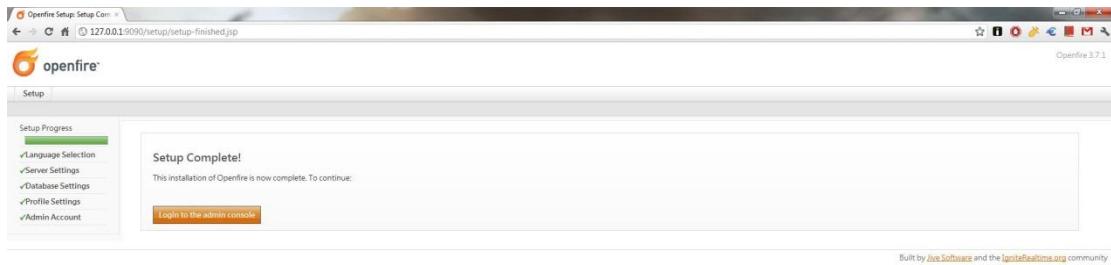
13. Set User Setting. Just Keep Default.



Your desktop is currently being shared with tskku@gmail.com [Disconnect (Ctrl+Alt+Esc)]

Built by [Iván Software](#) and the [IgniteRealtime.org](#) community

14. Enter administrator password



Setup Complete!

This installation of Openfire is now complete. To continue:

Login to the admin console

Built by [Iván Software](#) and the [IgniteRealtime.org](#) community

15. Success Config

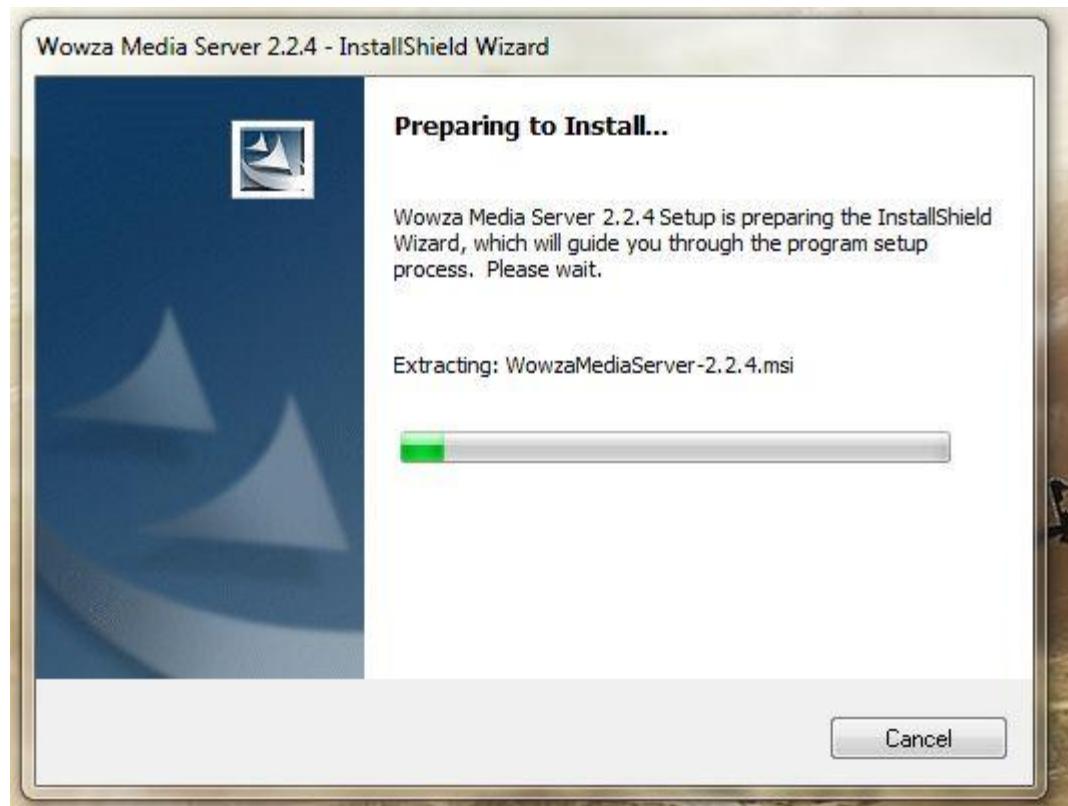


openfire Administration Console

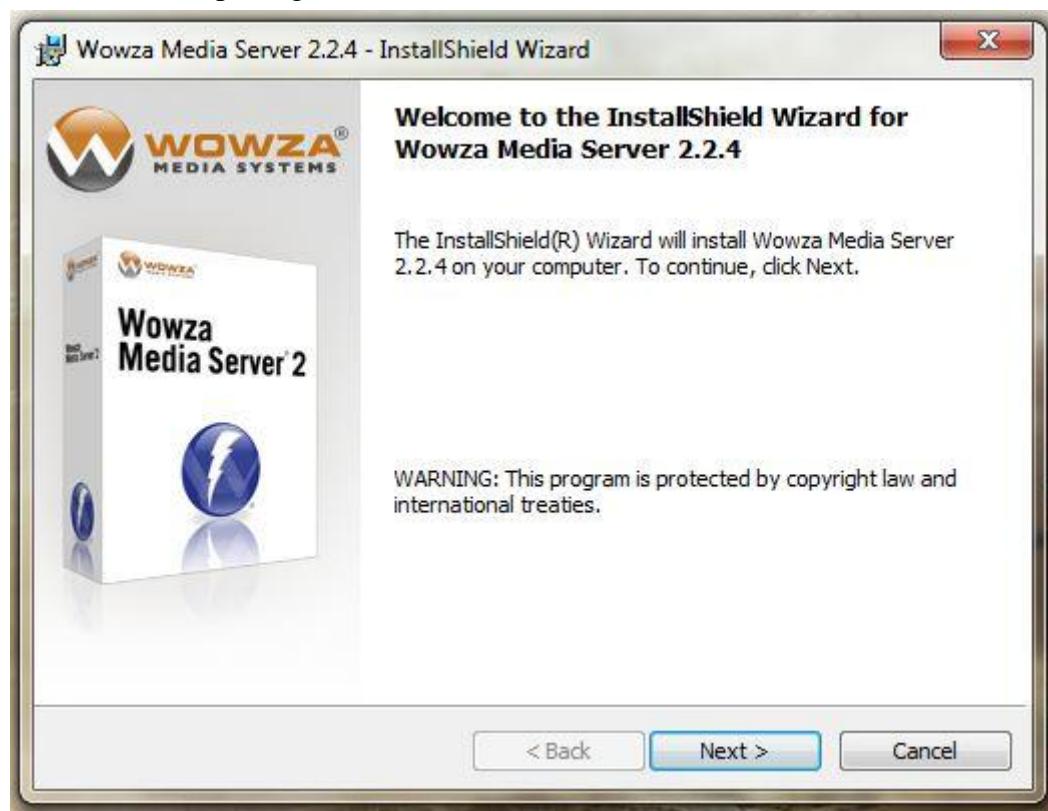
username password Login

Openfire, Version: 3.7.1

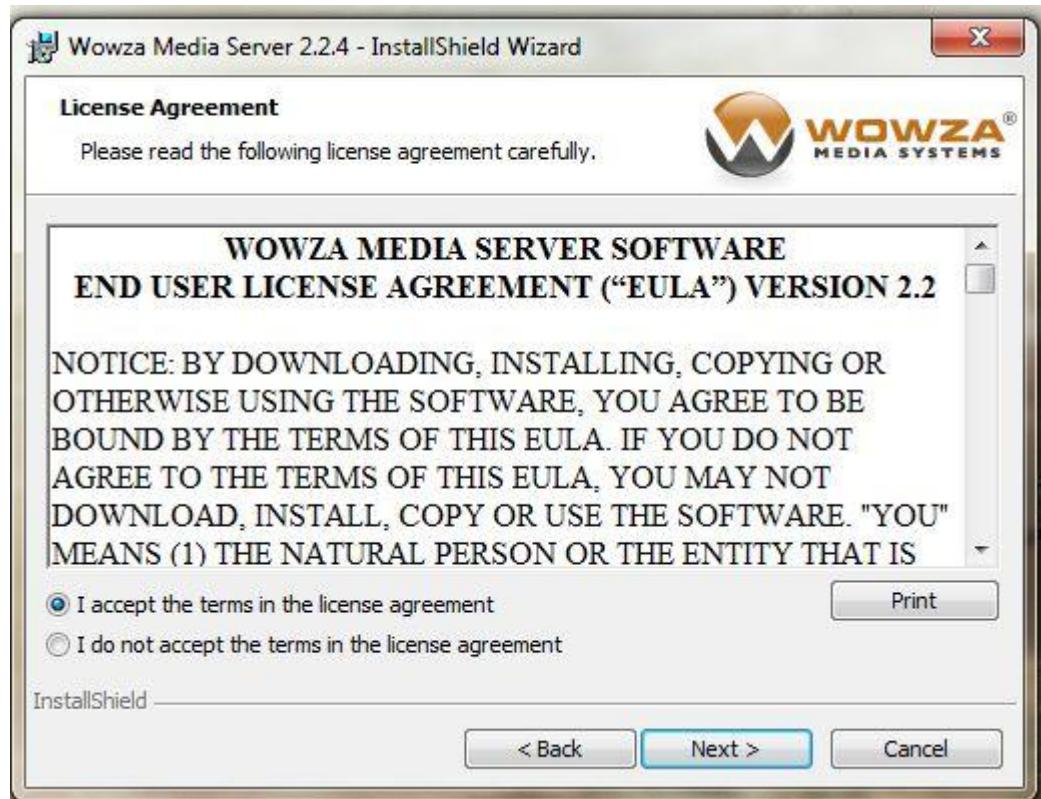
16. Now can log in using admin account.

Wowza Media Server (Media Streaming Server)

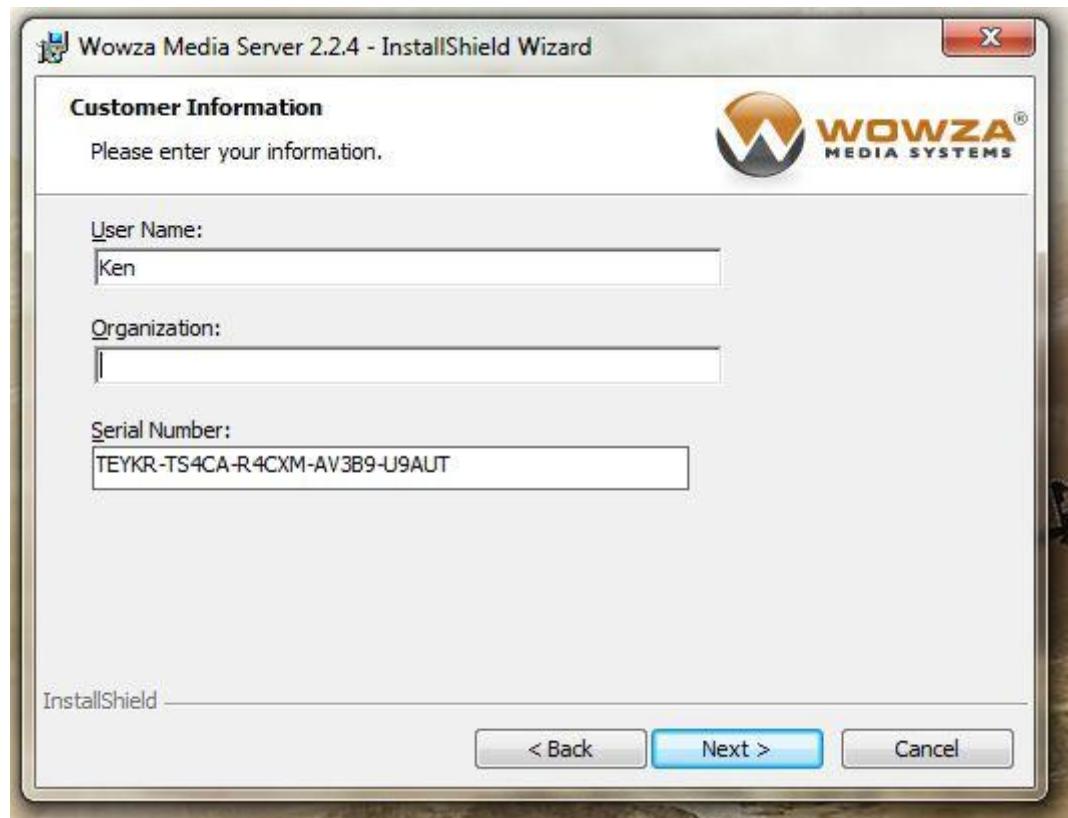
1. Install from package



2. Click Next



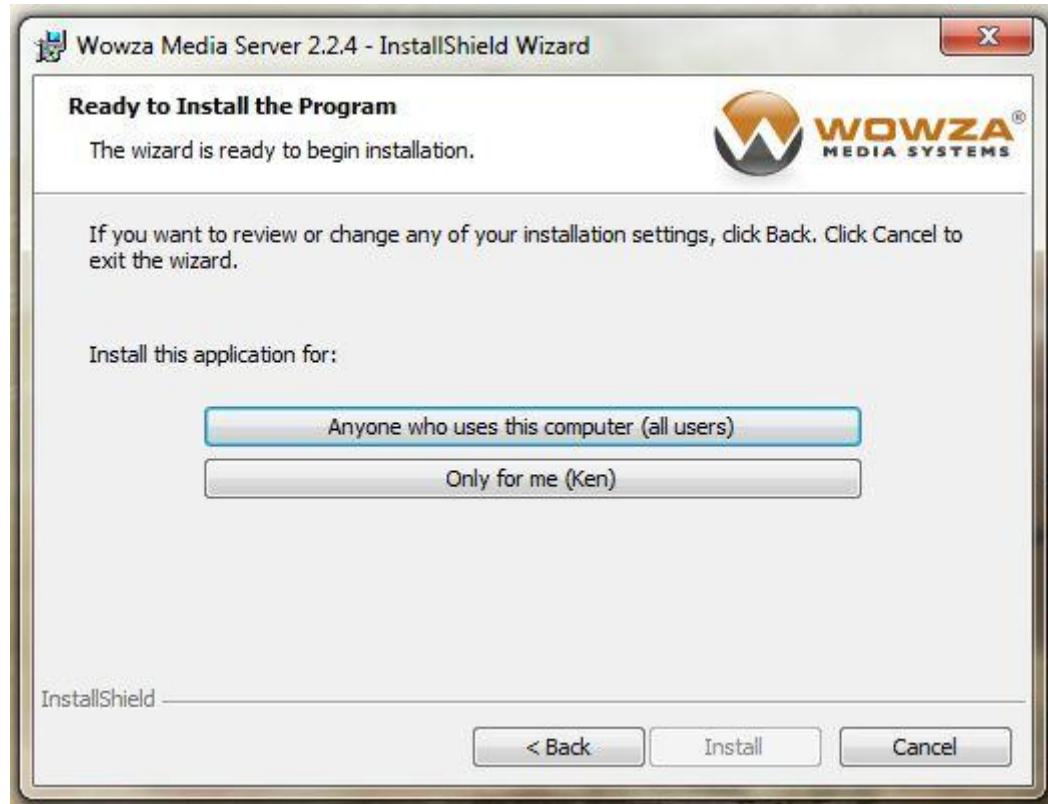
3. Agree the statement and click Next



4. Enter the related Serial Number



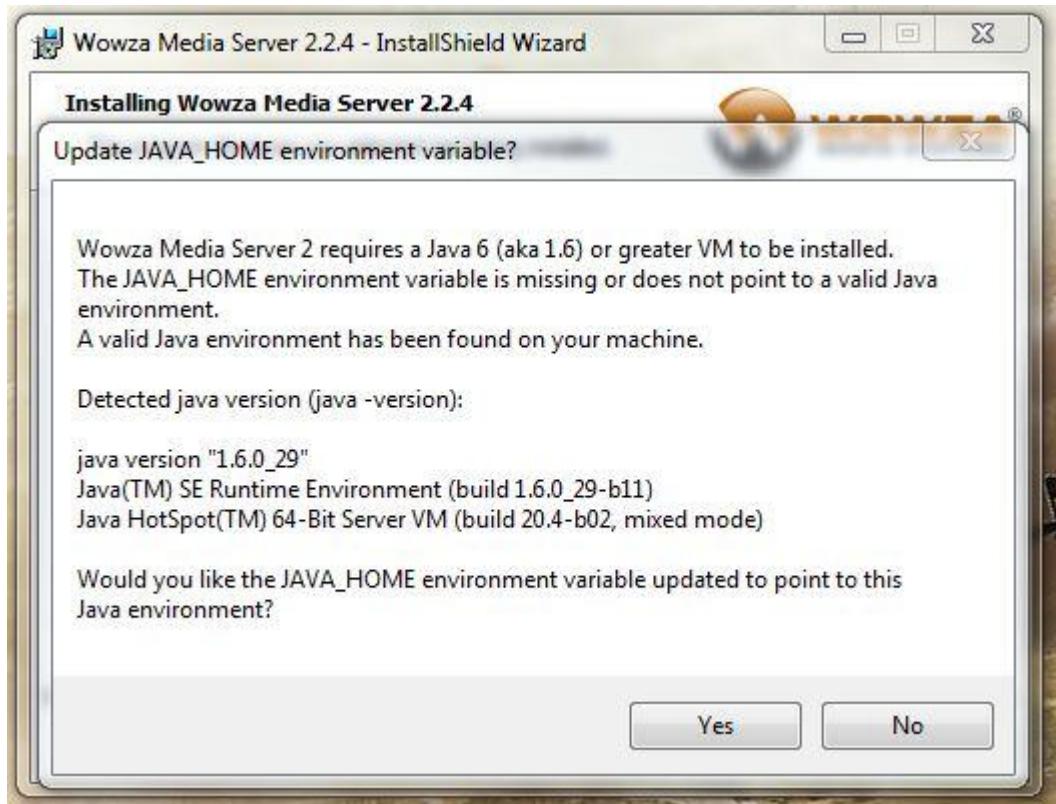
5. Set Destination Folder



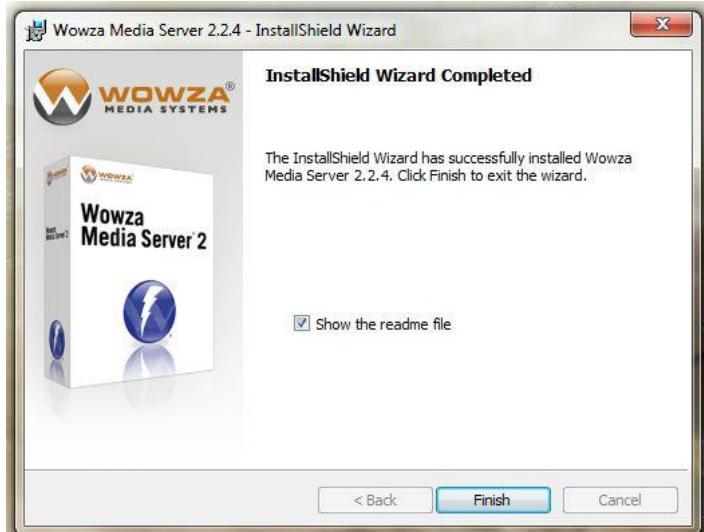
6. Set "Only for me"



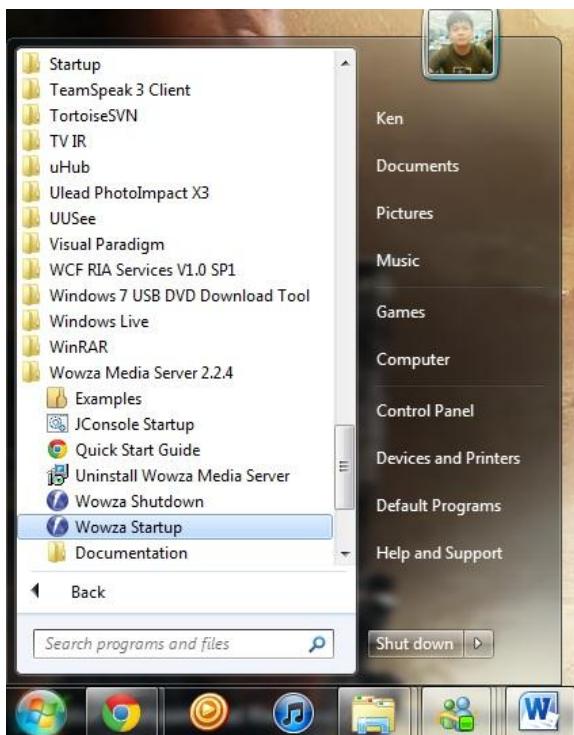
7. Install in progress



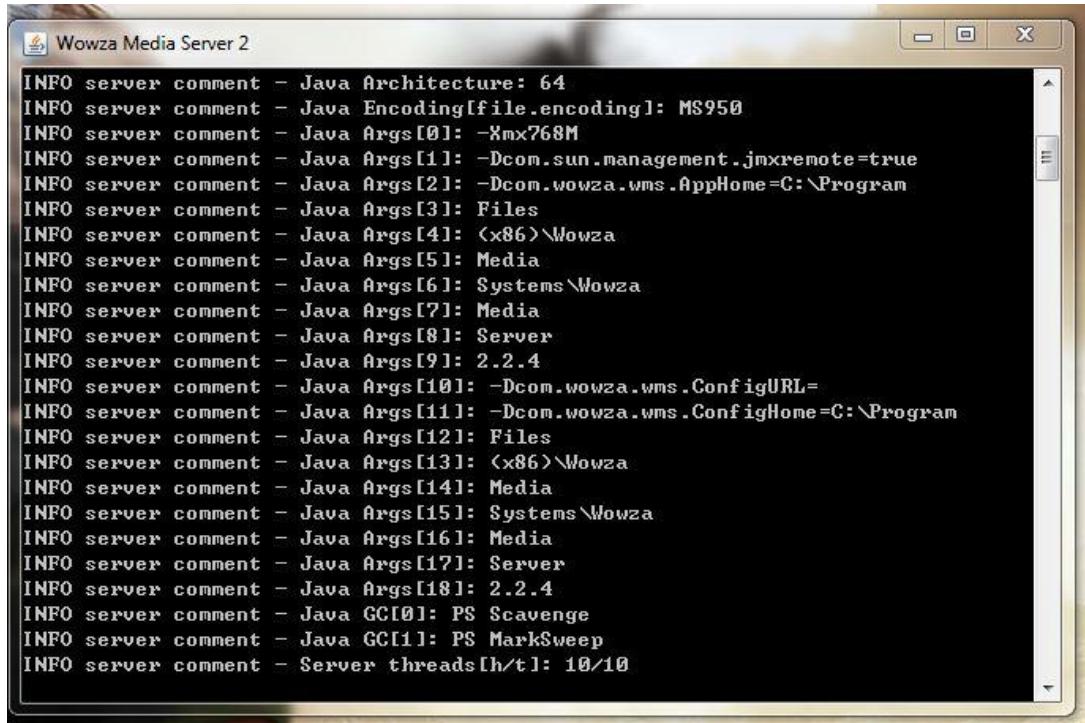
8. Set Java



9. Finish Installation



10. Click Wowza Startup to start Server



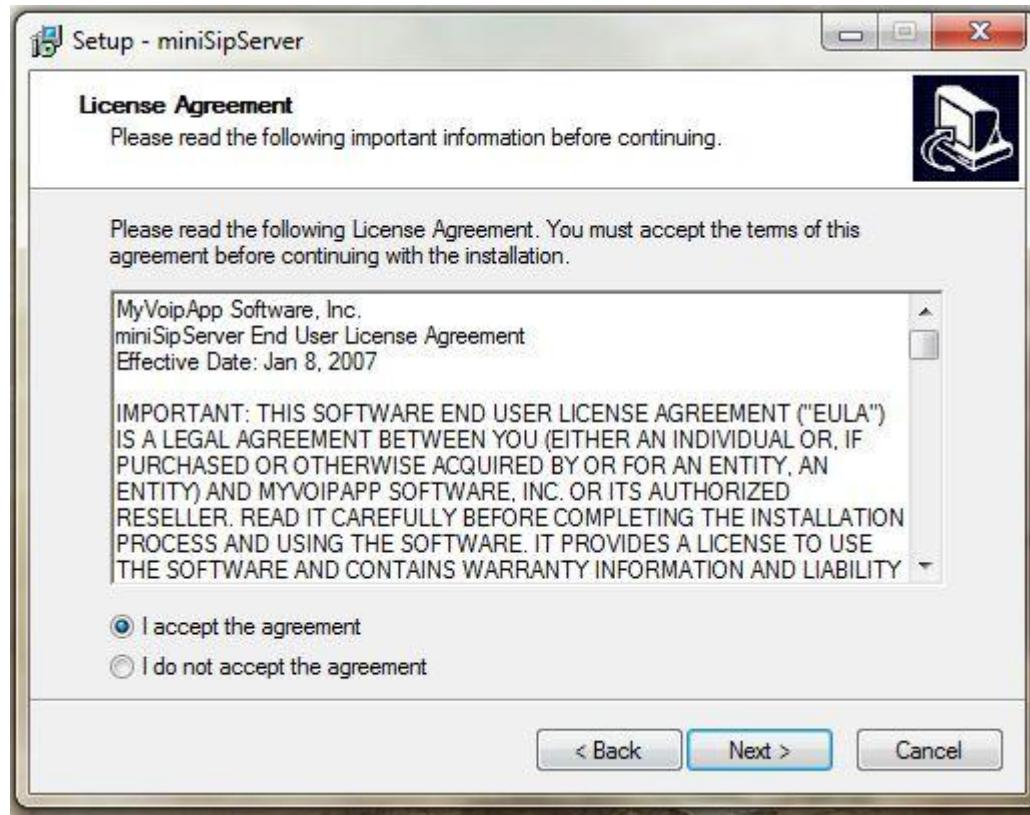
The screenshot shows a terminal window titled "Wowza Media Server 2". The window contains a large amount of text output from the server's startup process. The text is in a monospaced font and is primarily composed of "INFO" log entries. These entries provide details about the Java environment, command-line arguments, and server configuration. Key information includes:

- Java Architecture: 64
- Java Encoding[file.encoding]: MS950
- Java Args[0]: -Xmx768M
- Java Args[1]: -Dcom.sun.management.jmxremote=true
- Java Args[2]: -Dcom.wowza.wms.AppHome=C:\Program
- Java Args[3]: Files
- Java Args[4]: <x86>\Wowza
- Java Args[5]: Media
- Java Args[6]: Systems\Wowza
- Java Args[7]: Media
- Java Args[8]: Server
- Java Args[9]: 2.2.4
- Java Args[10]: -Dcom.wowza.wms.ConfigURL=
- Java Args[11]: -Dcom.wowza.wms.ConfigHome=C:\Program
- Java Args[12]: Files
- Java Args[13]: <x86>\Wowza
- Java Args[14]: Media
- Java Args[15]: Systems\Wowza
- Java Args[16]: Media
- Java Args[17]: Server
- Java Args[18]: 2.2.4
- Java GC[0]: PS Scavenge
- Java GC[1]: PS MarkSweep
- Server threads[h/t]: 10/10

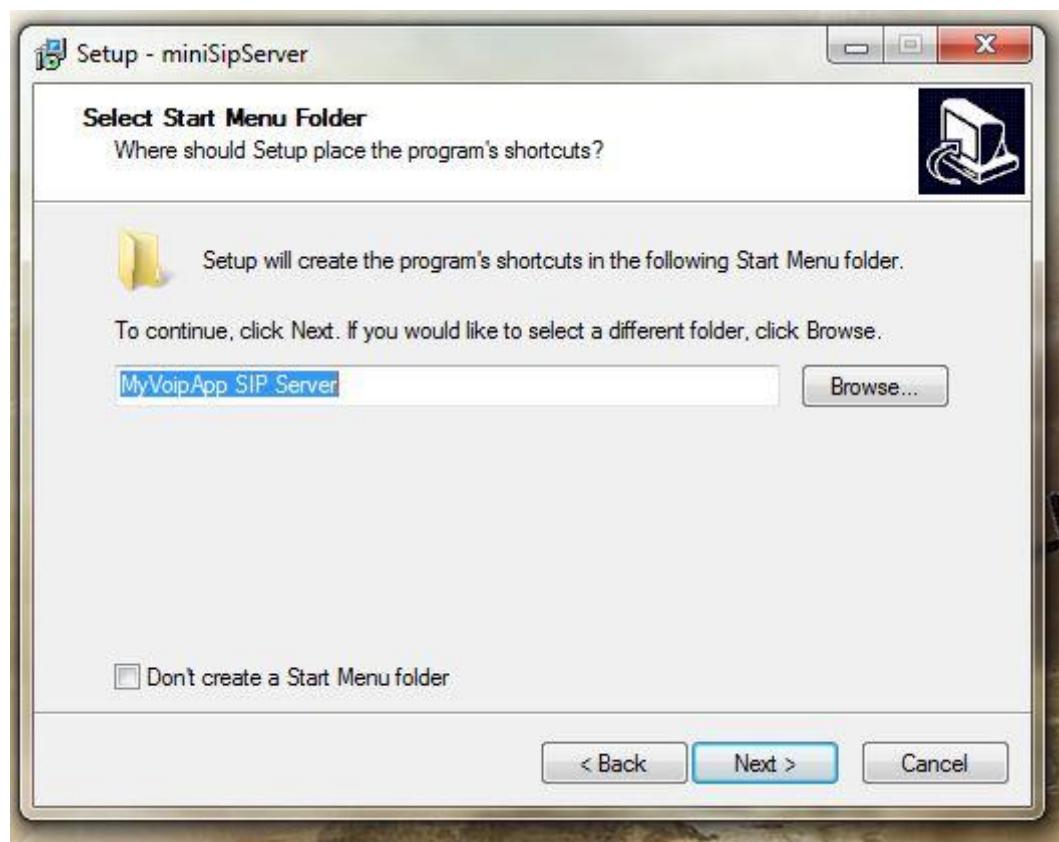
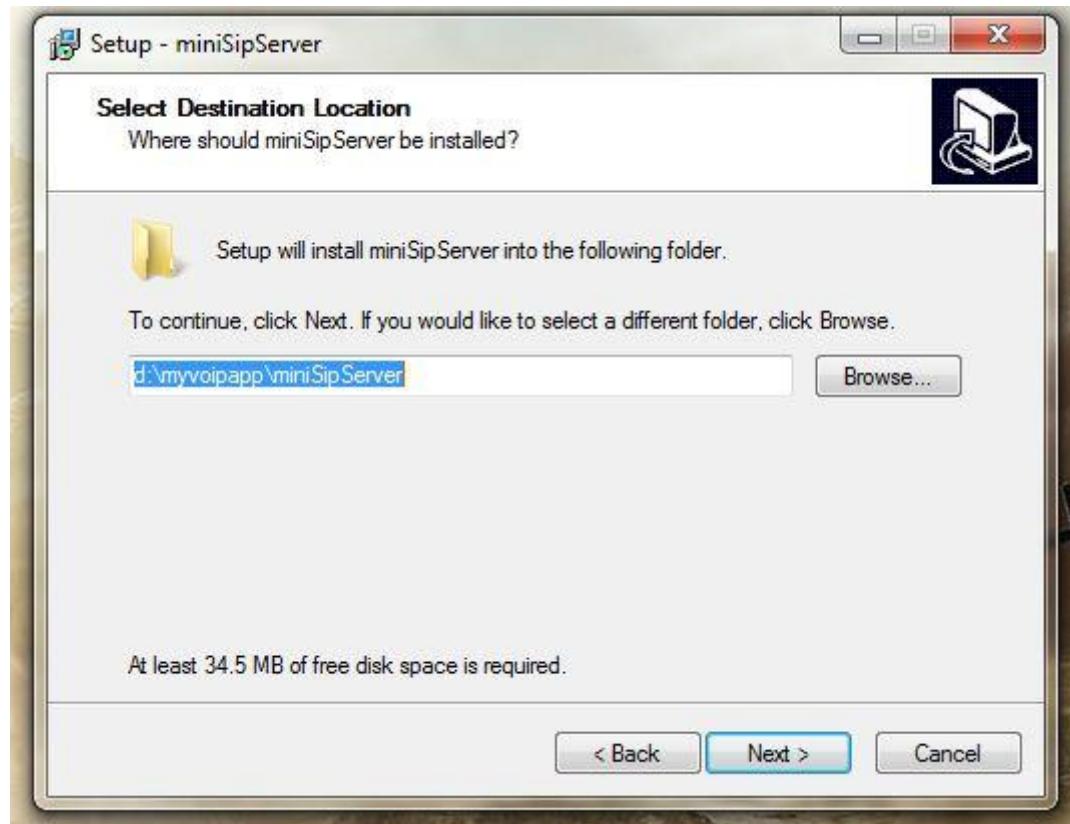
11. Server On

MiniSipServer (Telephone Server)

1. Install from package



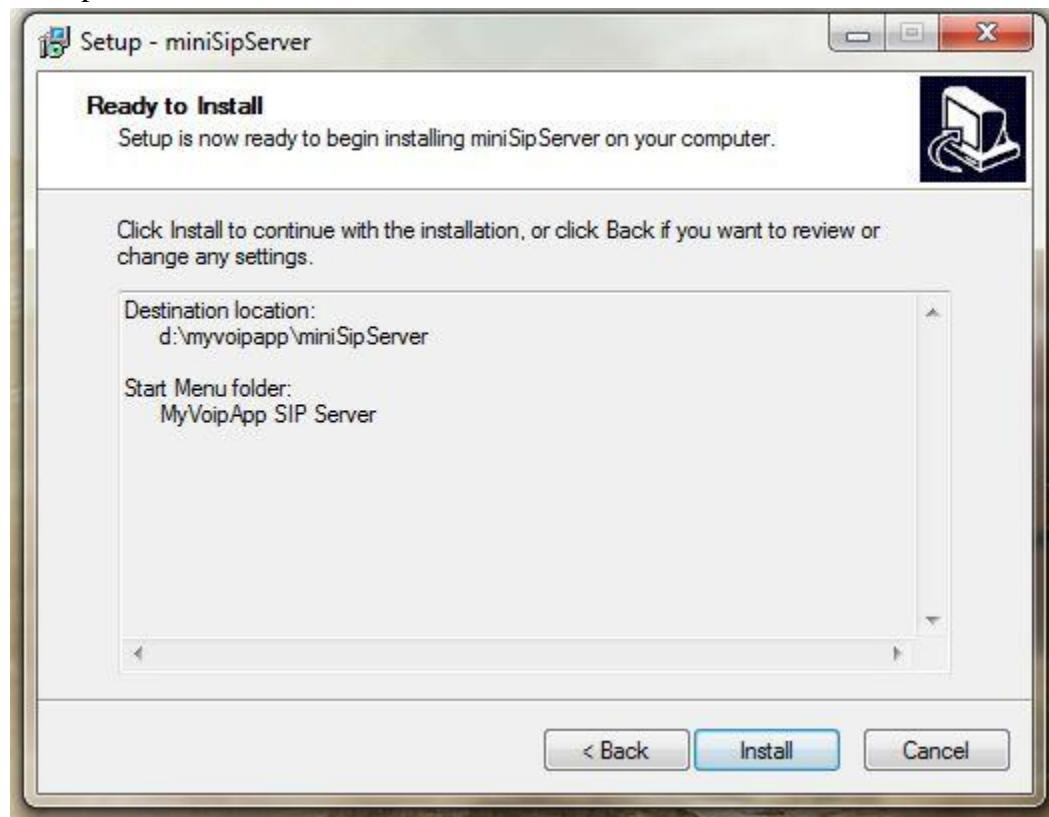
2. Accept the statement and Click Next.



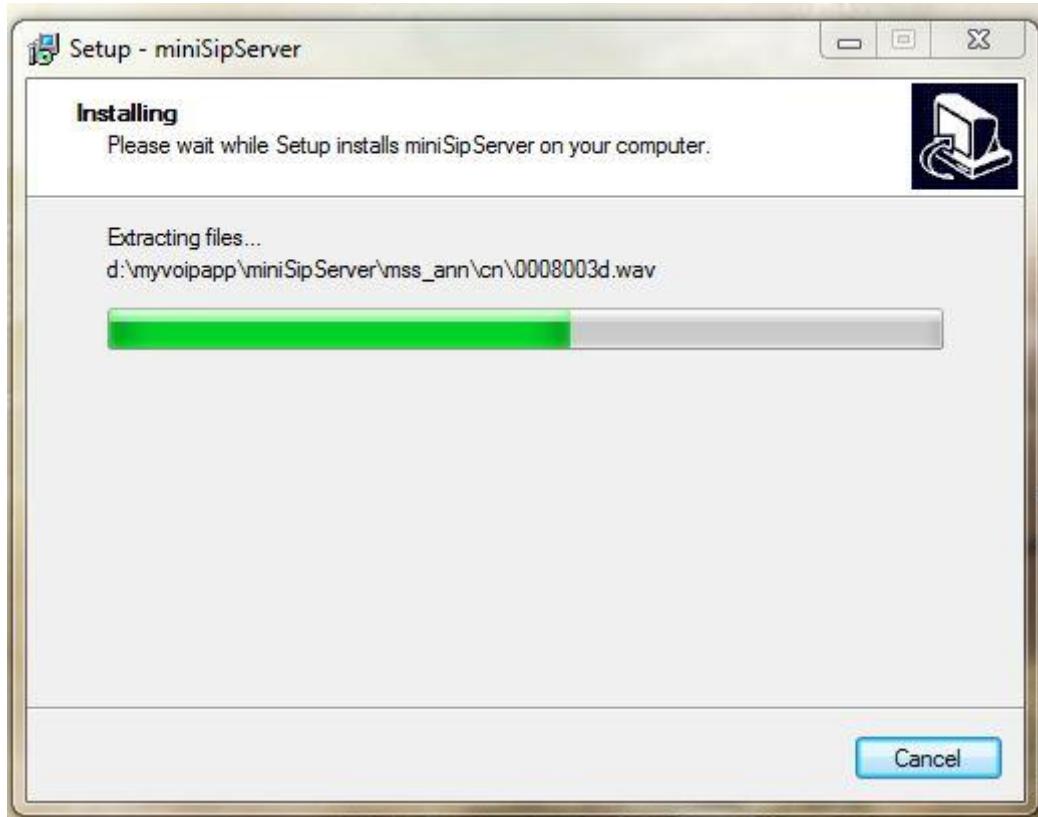
3. Set Destination Path



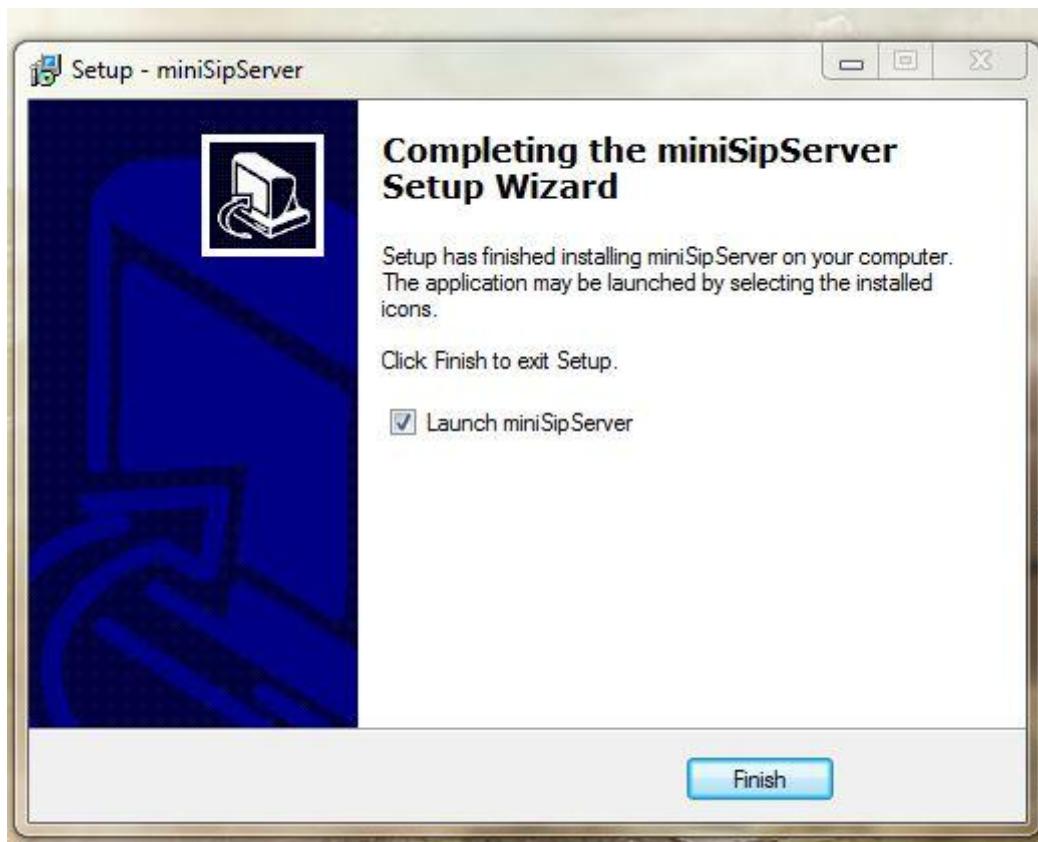
4. Optional Choice



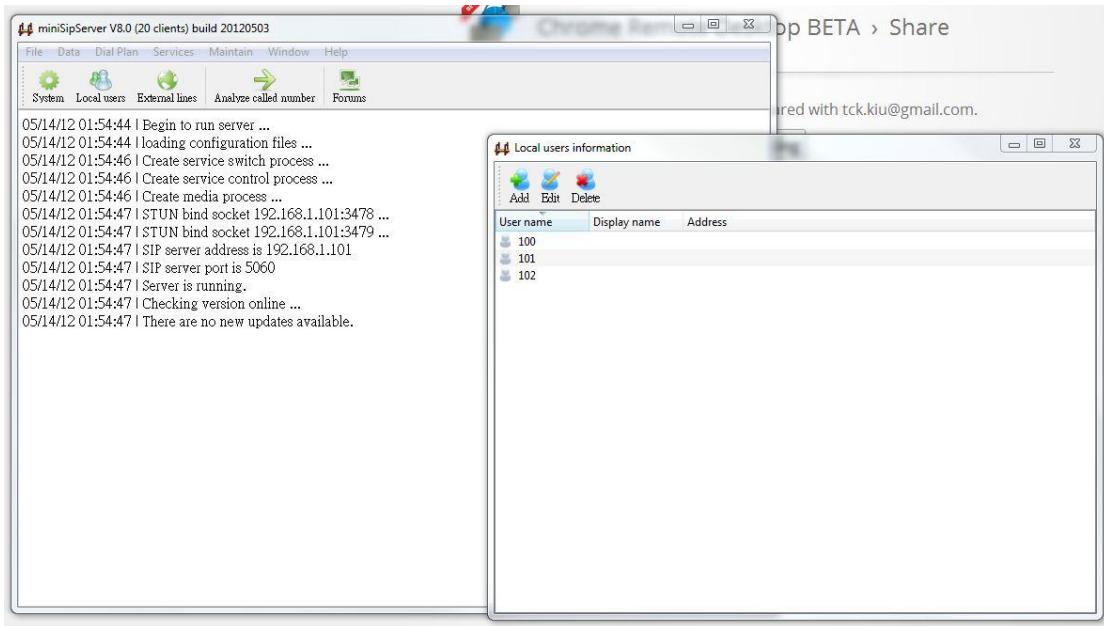
5. Click Install



6. Install in progress

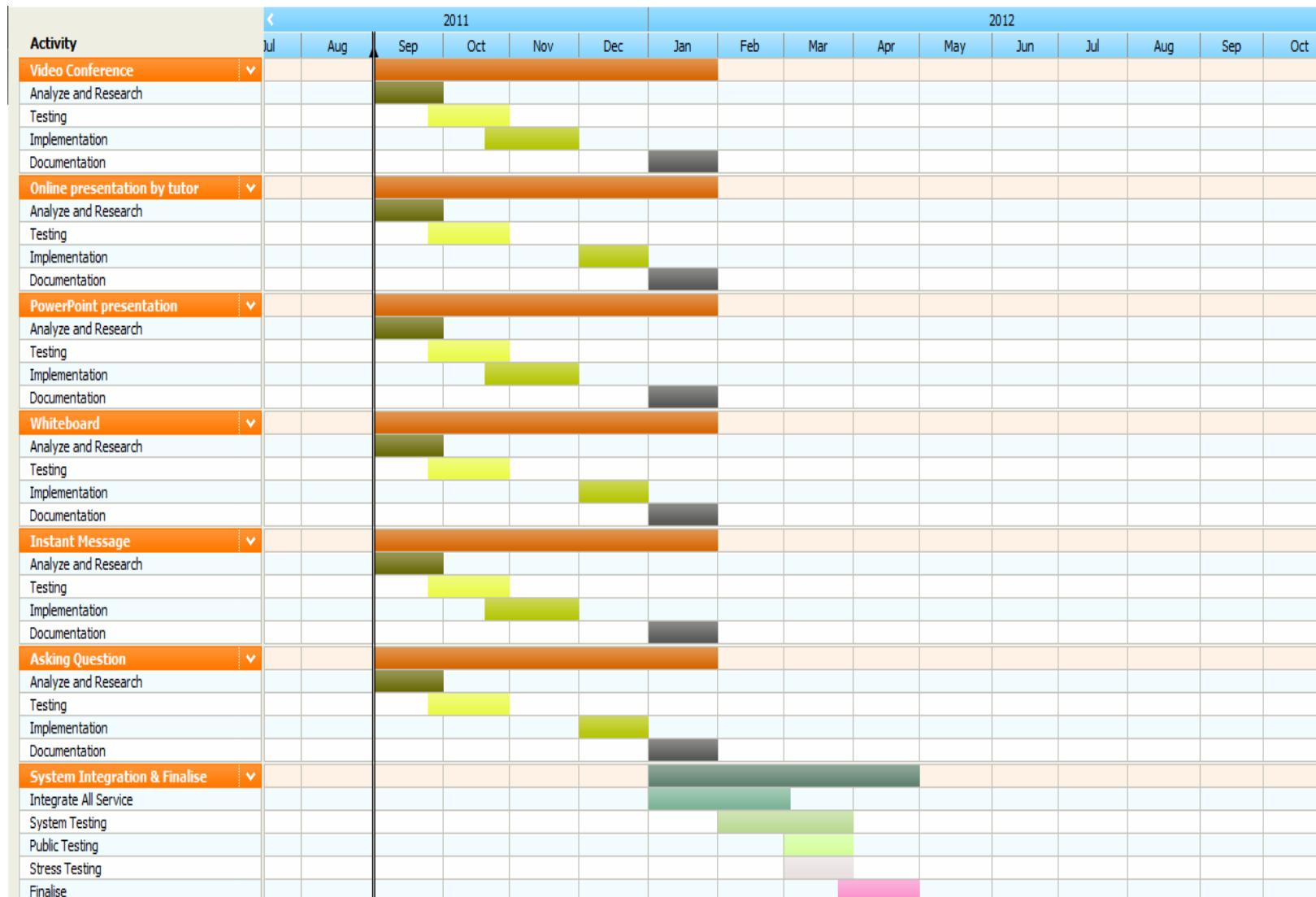


7. Click Finish to launch server



8. Server On.

Project Schedule



Project Schedule in Design Stage



Project Schedule in Implementation Stage

