# Use case and scenarios for SkyApp

#### 1. Use case

Use case	Actor(s)	Description	Interaction Pattern
A math teacher	Teacher	Teacher could use the app	Teacher
is preparing		to prepare the content	
class work for		before the class	
Class 4A using			
SkyApp			
A math teacher	Teacher	Teacher could use white	Teacher->Class
is teaching in		board to teach in class and	
class		save the notes of the class.	
The math	Teacher	Teacher uses the	Teacher->Class/
teacher is	Students	whiteboard to give	Student
delivering the		questions and distribute	
classwork		them to students	
during/after			
class			
Answer	Students	Student use whiteboards to	Student->Teacher
Questions		answer questions and	
		submit it to the teacher	
Praise Students	Teacher/Stud	Teacher could give icons to	Teacher->Students
	ents	students by their	
		performance on tests.	
Faciliating	Teacher	Teacher uses the control	Teacher->Class
sharing in the	Student	panel to change the project	Student->Class
classroom		to show students' work	
Presentation of	Teacher		
the students'	Students		
data objects			
Game	Teacher		
	Student		

### 2. Scenarios for each use case

# 1. Prepare Class Work

1. Frepare class work			
Use Case Name	A math teacher is preparing class work for Class		
	4A using SkyApp		
Actor(s):	Teacher		
Description:	Teacher could use white	board to prepare notes	
	for the class		
Reference:	SkyApp		
Typical Course of Events	Actor Action	System response:	
(Scenarios):	<b>Step 1:</b> Initiate this use		
	case when the teacher		
	logs in. Teacher <mark>inputs</mark>		
	account and password		
	that have been stored in		
	the database, <mark>chooses</mark>		
	language mode and		
	clicks login button.	Step 2: The app goes to	
		the "Main View" page.	
	<b>Step 3:</b> Teacher clicks		
	the "add" button to add		
	a new whiteboard.	<b>Step 4:</b> The app shows	
		a whiteboard on the left	
	<b>Step 5:</b> Teacher clicks	top corner.	
	the whiteboard.	<b>Step 6:</b> The app goes to	
		the "Note View".	
	<b>Step 7</b> : Teacher clicks		
	the "draw" button and		

draw on the whiteboard and clicks "finish". **Step 8**: The app shows the drawing on the whiteboard. **Step 9**: Teacher clicks the "add picture" button to add a picture from the gallery. **Step 10**: The app shows the picture on the left top corner on the **Step 11**: Teacher clicks whiteboard. "add text" button and inputs the text and **Step 12:** The app shows clicks "Done" to add a text. the text on the left top corner Step 13: Teacher clicks "internet" button to use the internet. **Step 14**: Teacher clicks the "camera" button to take a picture of the **Step 15**: The app shows document.

the picture of the

top corner.

document on the left

	<b>Step 16</b> : Teacher clicks	
	"save" to save the notes	
	to database.	Step 17: The app shows
	Step 18: Teacher clicks	the success message.
	"back" button to go	
	back to the "Main View"	
Alternative courses	None	
Pre-conditions:	The teacher logs in succe	ssfully.
Post-condition:	Teacher has successfully	created new note.
Assumptions:	None	
Remarks:	For every object the teacl	her adds on the
	whiteboard, he/she could	d single click or "long
	press" it to edit.	

#### 2. Teach In Class

Use Case Name	A math teacher is teaching in class	
Actor(s):	Teacher	
Description:	Teacher could use white board and the projector to show the notes and teach in class as a real-life blackboard.	
Reference:	SkyApp	
Typical Course of Events (Scenarios):	Actor Action  1. Teacher connects the ipad with the projecter.  2. The following steps are the same with the use case "prepare class work"	System response: The steps are the same with the use case "prepare class work"
Alternative courses	In step 16, teacher could choose not to save the note for class, and clicks "back button. The app will show a message, teacher clicks "yes" and goes back to the "Main View" page.	
Pre-conditions:	The teacher finished the use case "prepare for the class"	
Post-condition:	Teacher has successfully taught the class using the whiteboard the projecter.	
Assumptions:	None	

Remarks:	For every object the teacher adds on the	
	whiteboard, he/she could single click or "long	
	press" it to edit.	

### 3. Delivering Class Work In/After Class

5. Delivering class work in/After class		
Use Case Name	A math teacher is teaching in class	
Actor(s):	Teacher & Students	
Description:	Teacher assigns exercise	and tests in class.
Reference:	SkyApp	
Typical Course of Events	Actor Action	System response:
(Scenarios):	Step 1: Teacher	
	finished the steps in the	
	use case "Prepare for	
	the class".	
	<b>Step 2:</b> Teacher clicks	
	the "draw" button to	
	give questions to	
	students.	
	<b>Step 3</b> : Teacher clicks	
	"teacher mode" button	
	to choose "Open	
	answer" and then <mark>clicks</mark>	
	"OK".	Step 4: The app shows
		a successful message.
		The "teacher mode"
		button <mark>changes into</mark>

"distribute" button and is in gray. At the bottom, the tool bar shows "answers" **Step 5**: Teacher clicks button in gray. the "answer box" button in red and put it to cover the text. **Step 6**: Teacher clicks the answer box to give answer **Step 7**: Teacher clicks "hide all answers" **Step 8**: The answer box shows the "lock" **Step 9**: Teacher clicks "distribute" and choose a group, then clicks "distribute" at the **Step 10**: The app shows bottom. a successful message. In **Step 2**, teacher could also 1) Clicks "text" Alternative courses button to type something on the whiteboard; 2) Clicks "gallery" button to choose a picture from the iPad; 3) Clicks "camera" button to take a picture. In **Step 6**, if the teacher forgets to give the answer in the answer box, clicks the "hide all answers" button and clicks "distribute", the app will show a

	alert message. And the locked answer box will become editable.  In <b>Step 9</b> , if the teacher forgets to choose a group, and clicks "distribute", the app will show an alert message "Please choose a group."
Pre-conditions:	The teacher goes through the steps he/she needs in the use case "prepare for the class".
Post-condition:	Teacher has successfully distribute the exercise/test to the target students.
Assumptions:	Followed by the use case "Students answer questions."
Remarks:	For every object the teacher adds on the whiteboard, he/she could single click, double click or "long press" it to edit.

# **4. Student Answer Questions**

Use Case Name	The students do the exercise/tests given by their	
	teacher.	
Actor(s):	Students	
Description:	In students mode, students could do the exercise and tests given by teachers.	
Reference:	SkyApp	

Typical Course of Events	Actor Action	System response:
(Scenarios):	Step 1: Student-Tansy	
	logs in and enters to the	
	"Main View" page.	<b>Step 2</b> : The app shows
		the exercise with a tag
		on the left top corner of
	<b>Step 3</b> : Tansy clicks on	the whiteboards.
	a whiteboard to open	
	the exercise.	
	<b>Step 4</b> : Tansy double	
	clicks the answer box	
	and type in the answer.	
	<b>Step 5</b> : Tansy clicks	
	"save" button to save	
	the answer.	
	<b>Step 6</b> : Tansy <mark>clicks</mark>	
	"back" button to go to	
	the "Main View" page.	Step 7: The app
		<mark>changes</mark> the "question"
		tab to "answered
		already".
Alternative courses	In the use case "prepare for the class", Step 3, if	
	teacher chooses the answer to be "fill in the	
	blanks", in this use case,	step 2, the app will show
	the "question" and "testin	g" tab on the
	whiteboard.	
	Still, in <b>Step 5</b> , if students	clicks "submit", and
	typed in the right answer	, the app will <mark>show</mark> a

	message "You're right." But if the answer is wrong, the message will show you are wrong and let you try it again.
Pre-conditions:	The teacher distributes the questions to students successfully.
Post-condition:	Students finish the questions given by teachers.
Assumptions:	Followed by the use case " <b>Praise Students</b> ".
Remarks:	For every object the teacher adds on the whiteboard, he/she could single click or "long press" it to edit.

#### **5. Give Praise to Students**

Use Case Name	A math teacher gives praise to students	
Actor(s):	Teacher Students	
Description:	Teacher could give studentheir performance on test	
Reference:	SkyApp	
Typical Course of Events	Actor Action	System response:
(Scenarios):	<b>Step 1</b> : Teacher goes to	
	the "Note View" page.	
	<b>Step 2</b> : Teacher clicks	
	"Performance" icon.	Step 3: The app could
		calculate the marks,
		trials, and time
		automatically and <mark>show</mark>

	<b>Step 4</b> : Teacher clicks	the results on the
	"view" button to see the	window.
	students' answers.	
	<b>Step 5</b> : Teacher clicks	
	the "back" button to go	
	to the "Note View" page.	
	<b>Step 6</b> : Teacher clicks	
	"distribute" and <mark>choose</mark>	
	a group and a gift, then	
	clicks "OK".	
		<b>Step 7</b> : The app shows
		a success message.
Alternative courses	None	
Pre-conditions:	Students have already sul	bmitted the answers to
	teachers.	
Post-condition:	Students receive the icon	s teachers send to them.
Assumptions:	None	
Remarks:	For every object the teacher adds on the	
	whiteboard, he/she could single click or "long	
	press" it to edit.	
	I think this kind of user ex	xperience is a little bit
	uncomfortable.	