

CS442 Mobile Application Development Team 5 Phase 2

Report 3

1. The features we have finished coding

- (1) Server app.
- (2) Touch pad and keyboard that support click, touch, slide and input on android app.
- (3) Double-click and right click functionality on android app.
- (4) Network function: work under WIFI and Bluetooth.
- (5) Setting function: change the background of the touch pad and hide keyboard.
- (6) PPT control function

2. The features that are still under debugging

- (1) Power point control function.

3. The work in next week

- (1) Complete PPT control function debugging.

4. Phase 2 progress

By end of November 15th, we have finished coding for almost features. The previous PPT control function design is much more complex and we generated another design for this function and it is now look neat, works properly and it could meet basic PPT control requirement for user.

The test cases for some of the components for this project are updated last week by team members. We made a standard format for test case such as it should include test case name, test procedure, expecting result, actual result and comment. All of unit test cases will be updated by next week. Integration test cases will follow this rule.

The apk file on github is executable. Please refer to it.

Touchpad and Special Keys Test Cases

Test case name	Test Procedure	Expecting result	Pass/Fail	Comment
Touchpad	(1) To start application. (2) Enter IP address (3) Press connect button on client app.	The Application should display the touchpad and textview on the screen.	Pass	
Gesture	(1) Setup connection between client app and server app. (2) Gesture on touchpad.	The application should run as wireless mouse and		
Right click	(1) Setup connection between client and app server app. (2) Use touch pad to place cursor on surface of your desktop. (3) Press right click button on client app.	Pop up the window.	Pass	In pop up window you can see view, refresh etc options.
Double Click	(1) Setup connection between client and app server app. (2) Use touch pad to move mouse to select a browser such chrome on your desktop. (3) Press Double Click button on client app.	The chrome browser will be opening and show full screen on laptop.	Pass	Double click is used when you want to open folder from your wireless mouse application.
Enter text	(1) Setup	Keyboard open.	Pass	This function

	connection between client and app server app. (2) Press on enter text which is above touchpad.			basically used for writing purpose .For Example in notepad
Shift key	(1) Setup connection between client app and server app. (2) Press Shift button on client app.	In documentation shift+write any letter from keyboard.It will make letter capital.	Pass	
Ctrl key	(1) Setup connection between client app and server app. (2) Press Ctrl button on client app.	When Ctrl pressed with conjunction other keys perform special operation.	Pass	Ex.Ctrl+C perform copy.
Alt key	(1) Setup connection between client app and server app. (2) Press Alt button on client app.	Alternet the function of other pressed keys.	Pass	
Spec key	(1) Setup connection between client app and server app. (2) Press Spec Keys button on client app.	Open new screen on device where different special keys are listed.	Pass	In special keys all the keys are covered of keyboard. And for different application special keys behave differently.
Esc key	(1) Setup connection between client app and server app. (2) Use touch pad	It will close image.	Pass	

	<p>to move mouse to select a image on your desktop. (3) Press Double Click button on client app to open image. (4) Press Spec Keys button on client app. (5) In Specs Keys press Esc button on client app.</p>			
Prnt Scr key	<p>(1) Setup connection between client app and server app. (2) Press Spec Keys button on client app. (3) In Specs Keys press Prnt Scr button on client app.</p>	It takes the print of the whole screen.	Pass	
Delete key	<p>(1) Setup connection between client app and server app. (2) Use touch pad to move mouse to select a word file. (3) Press Double Click button on client app to open word file. (4) Press Spec Keys button on client app. (5) In Specs Keys press Delete button on</p>	In word file it will delete the selected items.	Pass	

	client app.			
F1 key	<p>(1) Setup connection between client app and server app.</p> <p>(2) Use touch pad to move mouse to select a excel file.</p> <p>(3) Press Double Click button on client app to open excel file.</p> <p>(4) Press Spec Keys button on client app.</p> <p>(5) In Specs Keys press F1 button on client app.</p>	It opens help and support windows.	Pass	
F2 key	<p>(1) Setup connection between client app and server app.</p> <p>(2) Use touch pad to move mouse to select a excel file.</p> <p>(3) Press Double Click button on client app to open excel file.</p> <p>(4) Press Spec Keys button on client app.</p> <p>(5) In Specs Keys press F2 button on client app</p>	Using F2 with shift then it adds or edit the cell function.	Pass	
F3 key	(1) Setup connection between client app and server	It will display paste name dialog box.	Pass	

	<p>app.</p> <p>(2) Use touch pad to move mouse to select a excel file.</p> <p>(3) Press Double Click button on client app to open excel file.</p> <p>(4) Press Spec Keys button on client app.</p> <p>(5) In Specs Keys press F3 button on client app.</p>			
F4 key	<p>(1) Setup connection between client app and server app.</p> <p>(2) Use touch pad to move mouse to select a excel file.</p> <p>(3) Press Double Click button on client app to open excel file.</p> <p>(4) Press Spec Keys button on client app.</p> <p>(5) In Specs Keys press F4 button on client app.</p>	<p>Repeat the last command or action if possible and Ctrl+F4 combination closes the selected workbook window.</p>	Pass	
F5 key	<p>(1) Setup connection between client app and server app.</p> <p>(2) Use touch pad to move mouse to select a excel file.</p> <p>(3) Press Double</p>	<p>F5 using with Ctrl- restores the selected size of the selected workbook windows.</p>	Pass	

	<p>Click button on client app to open excel file.</p> <p>(4) Press Spec Keys button on client app.</p> <p>(5) In Specs Keys press F5 button on client app.</p>			
F6 key	<p>(1) Setup connection between client app and server app.</p> <p>(2) Use touch pad to move mouse to select a excel file.</p> <p>(3) Press Double Click button on client app to open excel file.</p> <p>(4) Press Spec Keys button on client app.</p> <p>(5) In Specs Keys press F6 button on client app.</p>	Moves to the next pane in worksheet if window is splitted.	Pass	
F7 key	<p>(1) Setup connection between client app and server app.</p> <p>(2) Use touch pad to move mouse to select a excel file.</p> <p>(3) Press Double Click button on client app to open excel file.</p> <p>(4) Press Spec Keys button on client app.</p>	Spell check.	Pass	

	(5) In Specs Keys press F7 button on client app.			
F8 key	(1) Setup connection between client app and server app. (2) Use touch pad to move mouse to select a excel file. (3) Press Double Click button on client app to open excel file. (4) Press Spec Keys button on client app. (5) In Specs Keys press F8 button on client app	F8 using with Ctrl it will perform size command when a workbook is not maximized.	Pass	
F9 key	(1) Setup connection between client app and server app. (2) Use touch pad to move mouse to select a excel file. (3) Press Double Click button on client app to open excel file. (4) Press Spec Keys button on client app. (5) In Specs Keys press F9 button on client app.	Minimize workbook windows to icon.	Fail	
F10 key	(1) Setup connection	Using F10 with shift displays	Pass	

	<p>between client app and server app.</p> <p>(2) Use touch pad to move mouse to select a excel file.</p> <p>(3) Press Double Click button on client app to open excel file.</p> <p>(4) Press Spec Keys button on client app.</p> <p>(5) In Specs Keys press F10 button on client app.</p>	shortcut menu for selected item.		
F11 key	<p>(1) Setup connection between client app and server app.</p> <p>(2) Use touch pad to move mouse to select a paint.</p> <p>(3) Press Double Click button on client app to open paint.</p> <p>(4) Press Spec Keys button on client app.</p> <p>(5) In Specs Keys press F11 button on client app.</p>	Make window full screen.If it is already in fullscreen mode then exit from full screen.	Pass	
F12 key	<p>(1) Setup connection between client app and server app.</p> <p>(2) Use touch pad to move mouse to</p>	Dialog box pop up and ask for file save or don't save?	Pass	

	<p>select a excel file.</p> <p>(3) Press Double Click button on client app to open excel file.</p> <p>(4) Press Spec Keys button on client app.</p> <p>(5) In Specs Keys press F12 button on client app</p>			
Direction key	<p>(1) Open a word document that has two or three paragraphs on computer</p> <p>(2) Set up connection between client app and server app</p> <p>(3) Set cursor on word doc, then press special key to enter according screen.</p> <p>(4) Click up, left, down, and right key.</p>	The cursor will move to up position, left position, down position, and right position.	pass	
Tab key	<p>(1) Open a word document that has two or three paragraphs on computer</p> <p>(2) Set up connection between client app and server app</p> <p>(3) Set cursor on word doc, then press special key to enter according screen.</p> <p>(4) Click tab key.</p>	The cursor will move across the page.	pass	Depends on different operation environment
Home key	<p>(1) Open a word document that has two or three paragraphs on computer</p>	The cursor will move to the beginning of the line.	pass	Depends on different operation environment, like non editable

	<p>(2) Set up connection between client app and server app</p> <p>(3) Set cursor at the end of one line in word doc, then press special key to enter according screen.</p> <p>(4) Click home key.</p>			environment, the cursor will move to first icon of the page
Page up key and Page down key	<p>(1) Open a word document that has two or three paragraphs on computer</p> <p>(2) Set up connection between client app and server app</p> <p>(3) Set cursor at the first line in word doc, then press special key to enter according screen.</p> <p>(4) Click PgUp key and PgDn KEY.</p>	The cursor will scroll up and down in the document.	pass	The scroll distance depends on different application.
End key	<p>(1) Open a word document that has two or three paragraphs on computer</p> <p>(2) Set up connection between client app and server app</p> <p>(3) Set cursor at the beginning of one line in word doc, then press special key to enter according screen.</p> <p>(4) Click End key.</p>	The cursor will move to the end of the line.	pass	Depends on different operation environment, like non editable environment, the cursor will scroll to end of the page

Both feature 4 and feature 5 have been completed. They have been tested and the functionality appears satisfactory. The color change button was implemented to change the background color of the trackpad when pressed. And the keyboard button was implemented to hide the android soft keyboard when pressed.

Test Cases for background color change functionality

	Action	Expected	pass/fail
1	open application	color of trackpad is initially red	pass
2	press color change button	color of trackpad should change	pass
3	close and reopen application	color of trackpad should be the same as color before application was closed	pass
4	press color change button repeatedly	color should change rapidly and application should not crash	pass
5	touch trackpad and other buttons	the functionality of the trackpad left mouse and right mouse clickers should not be impacted	pass

Test Cases for hiding keyboard functionality

	Action	Expected	pass/fail
1	touch edit text window	soft keyboard should appear as normal	pass
2	press keyboard close button	soft keyboard should hide	pass
3	touch edit text window again	soft keyboard should appear as normal	pass