

Use Cases

1. *createNewDocument
2. openDocument
3. *draw
4. *type
5. exportToPDF
6. takePicture

1. Use Case: createNewDocument

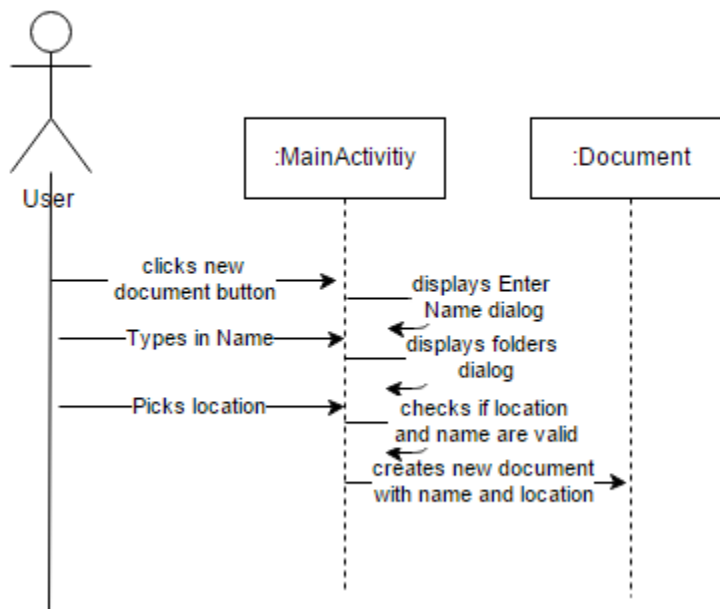
Precondition: The *user* has selected the 'Create a Document Button' on the main menu.

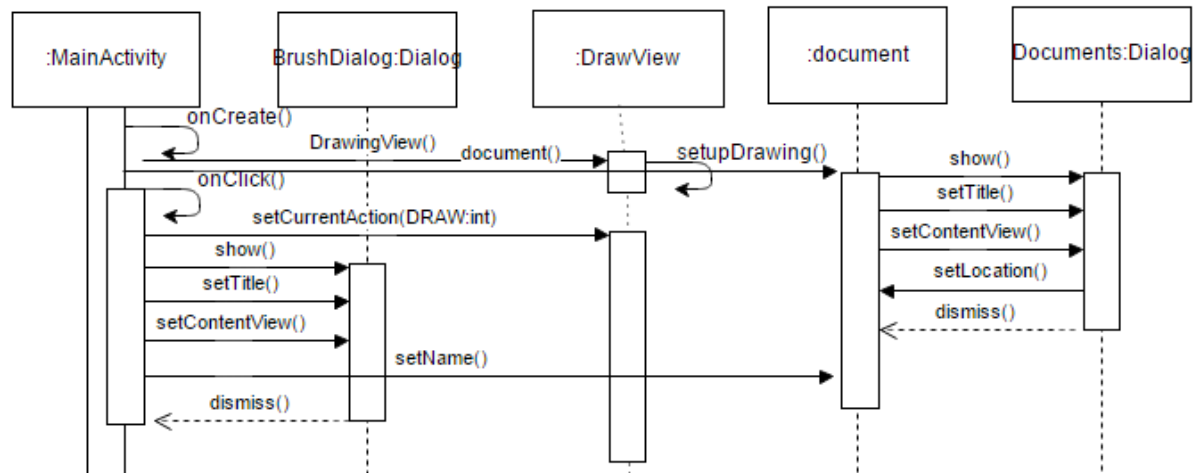
Main flow of events: The use case starts when is prompted a name and save location for the newly created document. The *user* will type in the name of the document and then select a destination folder or create a folder for it to be placed in. The app will then display a blank page for the user.

Exceptional flow of events: The *user* enters in a name for a document that is the same name as a document already located in the destination folder. The app will then show an error and not let the *user* continue until they enter in a unique name for the document.

Exceptional flow of events: The *user* wants to create a folder for a document that has the same name as a folder that already exists. The app will then show an error and not let the user continue until they enter in a unique name for the folder.

Postcondition: The app has created a new document with a unique title inside a unique folder.





2. Use Case: openDocument

Precondition: The *User* has previously created a document and saved it in a folder.

Main flow of events: The use case starts when the user clicks an 'Open Existing Document' button.

The app will present the *user* with titles of any documents or folder titles of created folders. The *user* can navigate in and out of folders till he/she finds the intended document and selects it.

The use case ends after the document has been selected and appears on the screen.

3. Use Case: draw

Precondition: The *user* has a document open in the app.

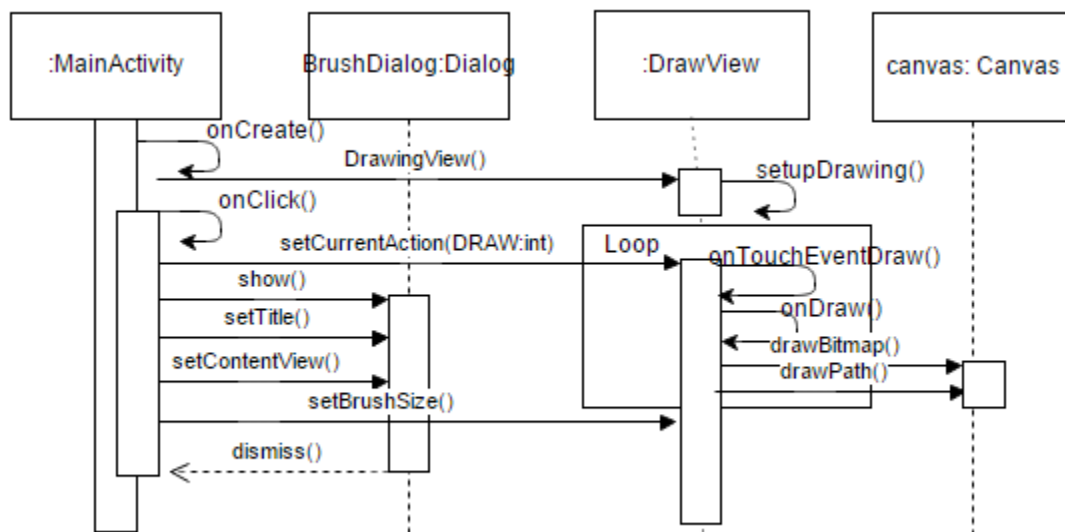
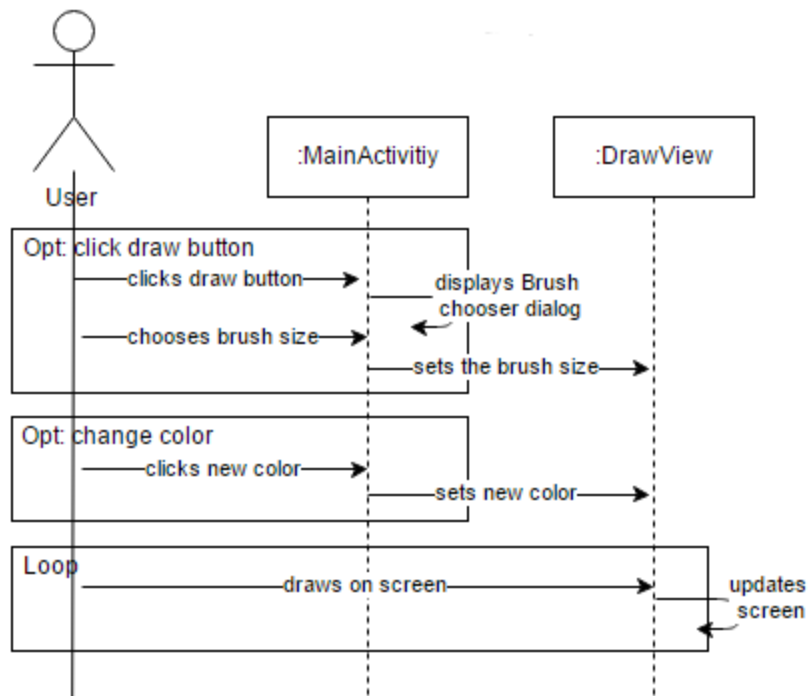
Main flow of events: The use case starts when the *user* selects the draw button on the right of the screen activating the *draw* function. The button will display a small menu option to the side of it with different sizes the *user* can choose from. Once the user selects the size, the *selectDrawSize* function is activated. Then the *user* clicks on the color wheel button that activates the *changeColor* function and selects a color from the colors listed. The *user* then uses their finger or stylus and draws or handwrites notes. The use case is over when the user selects another button such as text.

Exceptional flow of events: The *user* does not select a size or color at the beginning of the draw function, the draw function is initialized to a default size or color.

Exceptional flow of events: The *user* has multiple fingers or items touching the screen at the same time. The app will accept only the first touch and not accept anything else until nothing is touching the screen anymore.

Exceptional flow of events: If the user draws something on the screen they would like to erase, they can select the eraser button to the right of the screen and then erase. Once the user is done they can either re-click the eraser button off or click the draw button again.

Postcondition: The app will stay in the draw function until another function is activated.



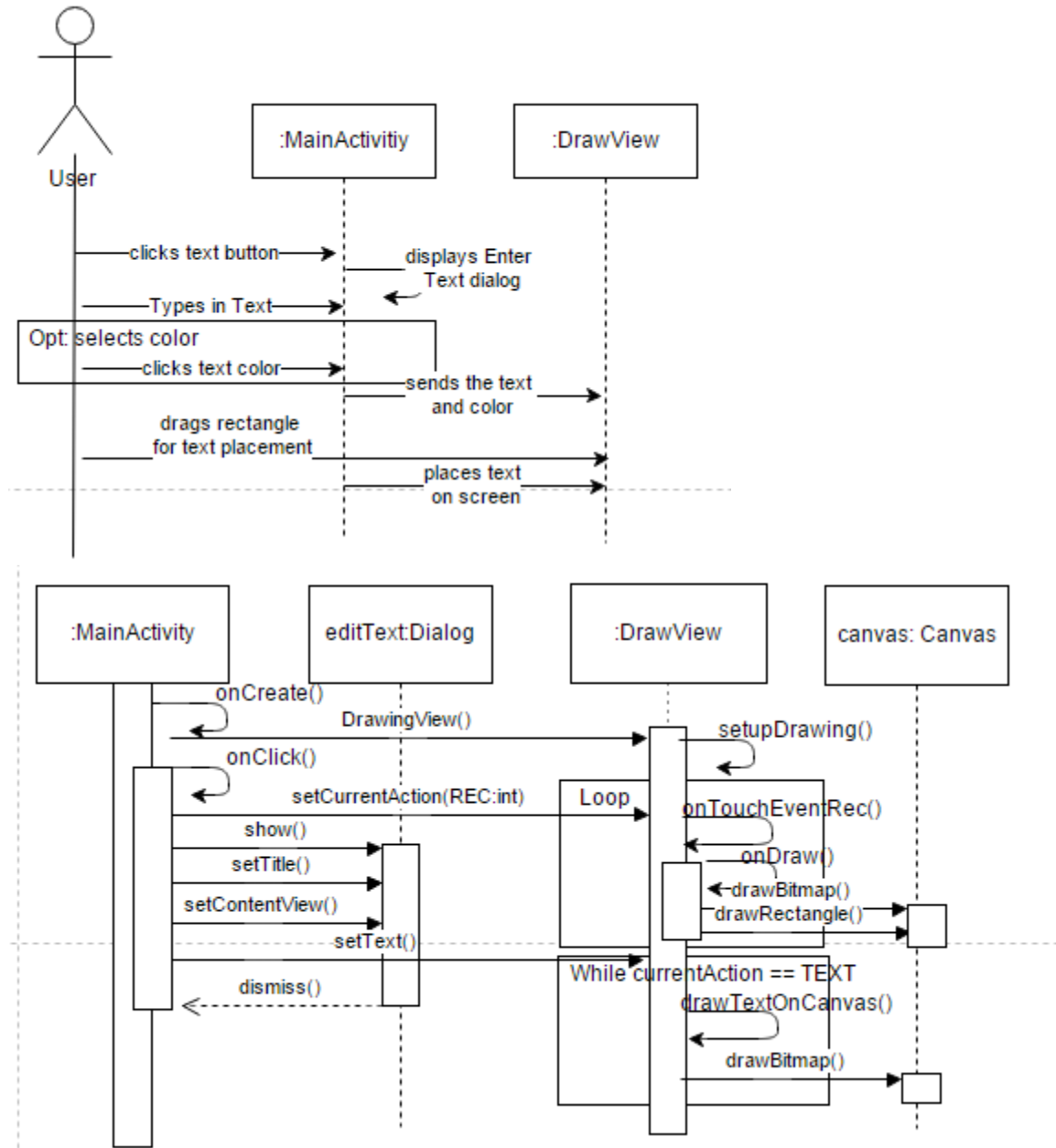
4. Use Case: Type

Precondition: The *user* has a document open in the app.

Main flow of events: The use case starts once the *user* has clicked on the type button. Once the type button is activated the app will open the *type* function. The *user* will then click on screen where they would like the type and begin typing using a keyboard or built in keyboard. The *user* will click the font button and select a different font activating the *changeFont* function. In the same menu the

user will select a size for the font and activate the *changeFontSize* function. The use case ends when the *user* selects the draw button or closes the document.

Exceptional flow of events: If the user doesn't click the screen where he/she wants to type, nothing will happen until the user does.



5. Use Case: ExportToPDF

Precondition: The *user* has a document open in the app and the main menu open. The user also has a tablet that is connected to a printer or a cloud account.

Main flow of events: The use case starts once the user clicks on the Export to PDF button. After the user clicks the Export to PDF button, a selection of options will appear. The user can either save to device, send to cloud, or print. If the user selects save to device, a *SaveToDevice* function will

activate and allow the user to save the PDF somewhere on their tablet. If the user clicks send to cloud, the PDF will be automatically sent to their cloud account set up with the *SendToCloud* function. If the user selects the print button, a *SendToPrinter* function will activate and print the PDF from the printer connected to the device.

Exceptional flow of events: If the selection that the user selects fails, the user will be prompted to try again.

Postcondition: The user is returned to the current document after all functions have closed.

6. User Case: TakeAPicture

Precondition: The *user* has a document open in the app.

Main flow of events: The use case starts once the *user* clicks on the Take a Picture button. Once the button is clicked, the *TakeAPicture* function is activated. The camera utility will activate and the *user* will be able to take a picture with their devices picture. Once the picture is taken, the picture will appear on the document highlighted and the *user* will be able to rescale or move the picture with their fingers.

Exceptional flow of events: If the picture did not appear on the document after the taking a picture, the *user* will have to retake the picture or select it from their library.

Postcondition: The *user* is returned to their previous state on the document.

