Download Manager

Version 0.15 Feb 21st, 2014

Most recent spec available at – [link to folder in mozilla.box.com]

Questions? Email the author or firefoxos–ux@mozilla.com

Version history

0.1	Sept 20, 13	Tiffanie Shakespeare	Creation and initial wireframes
0.2	Sept 27, 13	Tiffanie Shakespeare	Updates based on feedback from Peter and Adam
0.3	Sept 30, 13	Tiffanie Shakespeare	Updates based on Francis's feedback and review meeting. Massive changes to Flow pages – ordering, section names, and information related to widget behaviours. Detail pages untouched thus far.
0.4	Oct 1, 13	Francis Djabri	Further updates to flows and download list. Removed banners.
0.5	Oct 7, 13	Francis Djabri	Settings drawer introduced. Download widget and Download list details added. Errors added.
0.6	Oct 8, 13	Francis Djabri	Updates made to download widget details
0.7	Oct 9, 13	Francis Djabri	Updates to download widget details and error states based on feedback during review on Oct 9, 2013.
0.8	Oct 16, 13	Francis Djabri	Added MVP proposal. Added retry button to Download List stopped and failed states.
0.9	Oct 19, 13	Francis Djabri	Updated MVP proposal with simplified DM widgets. Added an alternative proposal that has multiple download widgets.
0.10	Oct 23, 13	Francis Djabri	Updated following review – MVP without Settings Drawer proposed.

Version history

0.11	Oct 29, 13	Francis Djabri	Updated following email discussion. Clear all use case removed. Editing use case updated to follow the Messaging edit pattern. ``
0.12	Nov 5, 13	Francis Djabri	Updated to correct inconsistencies in the spec.
0.13	Nov 8, 13	Francis Djabri	Updated to remove progress bar and stop button from Download in progress notification.
0.14	Nov 20, 13	Francis Djabri	Updated to include "Close" button for download list and empty download list.
0.15	Feb 21, 14	Francis Djabri	Fixes bug #s: 970818, 948960, 951281, 967413, 970225, 951281.

User stories / references

Bug 906255 – [User Story] View File Download Progress

As a user, I want to be able to view the status of downloads currently in progress so that I can know when my file will be finished downloading.

Acceptance Criteria:
1. I am able to visually see when a download is in progress.
2. I am able to see the total file size of the file being downloaded.
3. I am able to see the filename.
4. I am able to see how much of the file has been downloaded so far (expressed as an absolute or percentage) while in progress.
5. When a download completes, I am made aware of the completion event.

Bug 906256 – [User Story] Cancel In-Progress Download

As a user, I want to be able to cancel downloads that have started so that I can stop downloads that I no longer want.

Acceptance Criteria:
1. While a download is in progress, if I chose to cancel the download, the download ceases.
2. After cancelling a download, the download progress is no longer shown.

User stories / references

Bug 906257 – [User Story] Download Manager: View List of Downloads

As a user, I want to be able view a list of my downloaded files so that I can quickly find files that I previously downloaded.

Acceptance Criteria:

1. I can view a list of every downloaded file on my device.
2. Each download lists the file name, file size and the date/time of the download.
3. The list of downloads is sorted by download date/time in descending order.

Bug 906265 – [User Story] Download Manager: Open Download

As a user, I want to be able to open downloaded files with supported MIME types so that I can use the file.

Acceptance Criteria:

1. If only one application is registered to handle a particular MIME type, choosing to open a file with that MIME type will cause it to open in the registered application.
2. If more than one application is registered to handle a particular MIME type, choosing to open a file with that MIME type will ask the user to choose which application the file should be opened in.
3. If no applications are registered to handle a particular MIME type, choosing to open a file with that MIME type will present an error message.

User stories / references

Bug 906263 – [User Story] Download Manager: Delete Download

As a user, I want to be able to delete downloaded files in order to remove files I no longer want to free up device memory.

Acceptance Criteria:
1. If I choose to delete a single file, the file is removed from memory.
2. If I choose to delete all files, I am asked to confirm deletion.
3. If I confirm deletion of all files (as in 2), all downloaded files are removed from memory.
4. If I cancel deletion of all files (as in 2), nothing happens.

Bug 940886 – [Download Manager] Download list view design when there is no downloads

We would need to know how the download list view should be shown when there is no downloads.

PM Feedback – September 27th – v0.1

Peter

Concerns about discoverability of Settings Drawer – a mitigation could be similar to Android, put an icon in notifications. Would like to see how user testing goes.

Now, re: download manager, particularly:
So, just to be clear, right now the proposal is to have a widget which is a button to access the list view AND a widget which has one or more entries for what is currently downloading, correct? If so, I propose hiding the active download widget if there are no active downloads (or notifications which haven't been dismissed). **Tif:** Yes, that is the proposal and is outlined as such in this updated version.

I like the idea of clearing out stopped downloads after some time period. Thoughts on the ideal period? **Tif:** Proposed 24 hours.

I'm not sure if we can have an icon in the banner **Tif:** As outlined in building blocks, both icon and button can be in banners.
https://developer.mozilla.org/en-US/docs/Web/Apps/Design/Building_Blocks#Status

Slide 15/16/17 – detailed error messages
I suggest starting with a generic error message for the MVP. We can add these as improvements to the backlog. **Tif:** marked more detailed errors for future release.

Slide 18
I pinged the Marketplace team to see if launching MP filtered with apps that have an activity for the MIME type is possible. I suggest dropping this from the MVP and we'll add it to the backlog. **Tif:** dropped Marketplace functionality for now.

PM Feedback – September 27th – v0.1

Adam

1) Download widget: I'm wondering if "no files downloading" is useful to the user. It could be a little confusing if used as an entry point to the download list. **Tif:** this will be replaced with the "history" widget.

1) Stopping downloads: What does "Stopped" mean in this context? Cancelled or paused? If the former, why do we want to keep it in the list? Should we have provisions for pausing a download? **Tif:** Stopped means cancelled. For the MVP, we won't have the ability to resume, thus no pause. In the future, we will add this in, but it is server dependent; not all servers can handle resume.

2) Download History: when there is no current download activity the user can click through into the download history. How is this done when there is a download in progress? **Tif:** The history widget is always available, it will just get pushed down a bit when there are downloads in-progress.

3) Download history: we should probably have a discussion about this; I'm not a proponent of limits in general but I completely understand the UX impact of that. **Tif:** History limit is TBD then.

4) Download History: Can we delete items from the history? **Tif:** Definitely not for MVP, but in general I would say no, this is a transactional history like your credit card statement, than a file manager.

5) Icon and Banners: I think a completed icon would help users understand that a dl has completed. **Tif:** Agreed and added.

6) Icon and Banners: If there is an error, the user should have a way of easily seeing what the error was (a more button – or just tap on the notification) **Tif:** Agreed and added.

7) Connection Lost: In the case of dropping out of wifi do we want to cancel the DL outright or give the user the option to restart on wireless? Is it even possible to restart in the middle of a file?

8) Power failure: I think we should show the error notification, I've certainly met people who had a hard time understanding that turning off their phone would stop a download. Yes, really.

9) In general we may want to think about a generic error message for the MVP. **Tif:** I put these specific connection error message on the back burner so we can finalize those later. I think the generic error will work fine, perhaps with a little tweaking.

10) unsupported types: we may want to have provisions to keep files of unsupported types. If we have the DL lists we could delete the file from there. Perhaps a 'keep' option with the warning. This probably isn't part of the MVP. **Tif:** I'm a little fuzzy on this comment, but I think the proposal does cover this comment.

11) SD Card issues: this may be beneficial to have these as system wide errors as issues with the SD card could impact several applications. **Tif:** Agreed, I'm removing those error to the appendix. If needed, I can flush them out and provide to the correct team.

UX Feedback – September 29th – v0.1

Francis

Settings Drawer should automatically be launched when a download is initiated. This would help with discoverability.

Tapping should consistently open the download list and we need to unify different download widget states. Once the download list is opened, the download widget gets update to the "No files are downloading" state.

Management, like stopping/deleting, is down from the download list.

How do you delete from the history list? **Tif:** You don't, this is a list of what has occurred not file management.

Widgets should be more consist, suggest using an icon with the title Downloads for all widgets. The second line would then contain the additional information.

Banners are generally only shown for 3 seconds, if we autolaunch the settings drawer, I don't think we need to have an 'open' button. **Tif:**
We should keep the 'open' button in the banner for the occasions when the user isn't actively looking at the download progress. It's a nice shortcut that doesn't negatively impact the UI.

Review Meeting – September 30th – v0.2

Francis, Tif, Stephany, Adam, David, Rob

Make sure to add in the ability to both tap and swipe to open Settings Drawer.

For the access point in Notifications, proposal #3 was the preferred solution, however, the icon should be on the right side to match where the user taps/swipes. Some sort of tutorial after the first time was liked, but final UI is TBD (system-wide theme).

When downloading a file, show a partial Settings Drawer with only the download widget. Tapping or scroll outside closes the drawer.

"In-progress" should be added to History list along with cancelling functionality.

We should combine multiple widgets into a single widget but provide enough information to be useful to the user. Widget will be totally redesigned.

Open issues

Should the download list play the part of a file manager? Risk of too much complexity
by mixing file management and download list functions. E.g., delete vs clear.
Recommend to keep the download list simple and offload file management functions
to dedicated file manager applications.

Download Manager for 1.3

Without the Settings Drawer in place for 1.3, the Download Manager relies on Notifications to alert the user of download events and as a means of accessing the download list.

In addition, the user can access the Download List from the Settings app.

See the Errors section for error handling.

Starting and Stopping Downloads

1. User Downloads a File

As soon as download is started, a banner is shown to inform the user that a download has started.
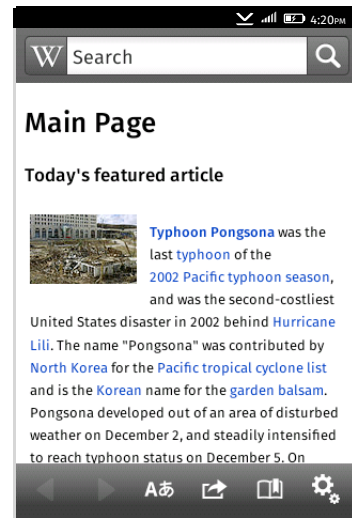
2. Banner dismissed

If the user does nothing, the notification banner automatically dismisses.

3. Download complete
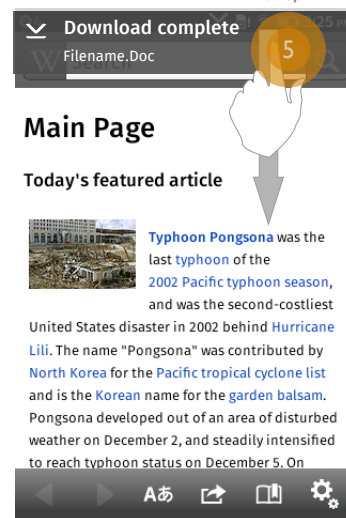
If the download completes, a download complete notification is received and replaces the download in-progress notification if it is still there. The download icon stops animating and is replaced by the download complete icon. A banner is shown to inform the user that the download is complete.

4. Utility tray
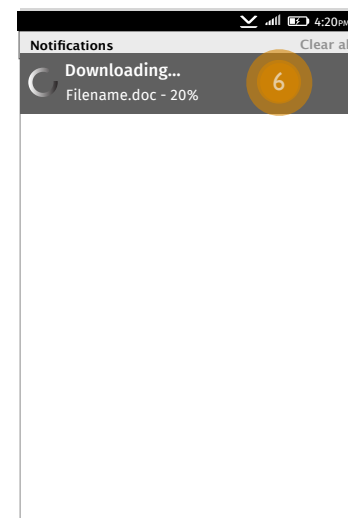
If a download is in progress, the download notification shows ongoing download progress. Tapping on the notification opens the Download list and clears the notification.
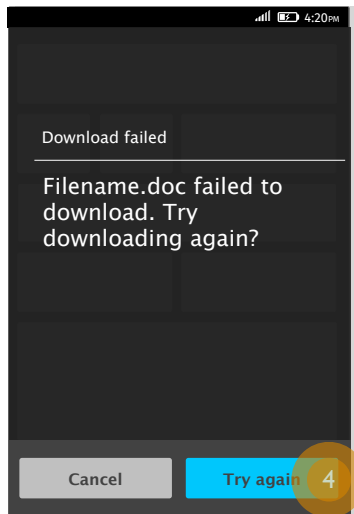
5. Utility tray
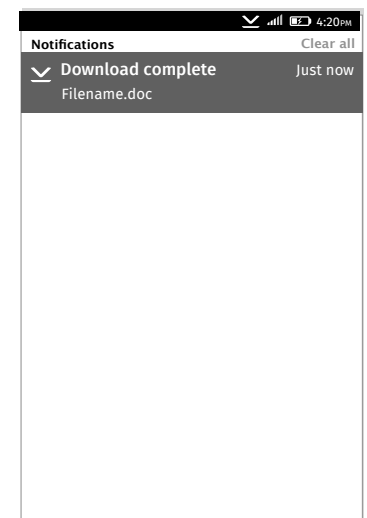
Tapping on the notification attempts to open the file – see the UX flow "Opening Files".

Starting and Stopping Downloads
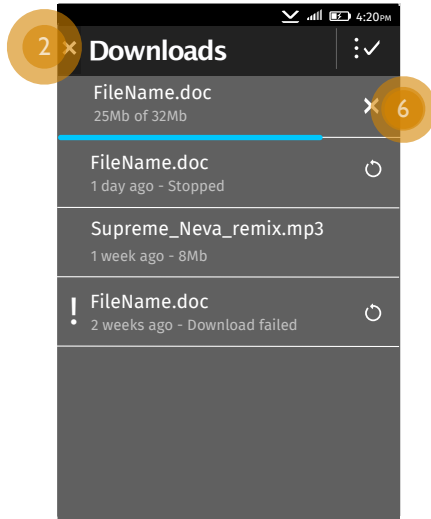
6. Download list

A stop button is shown for in-progress downloads in the download list. The user taps on the "stop" button to stop the download.

6. Confirmation
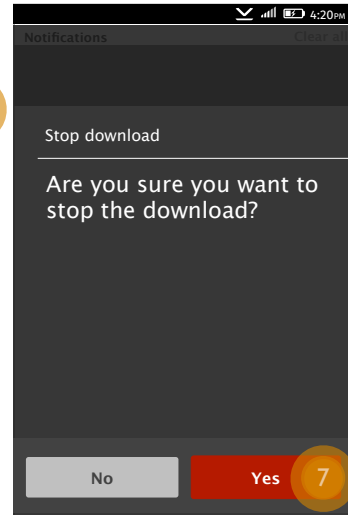
A confirmation dialog is shown to confirm if the user wishes to stop the download.

7. Download stopped
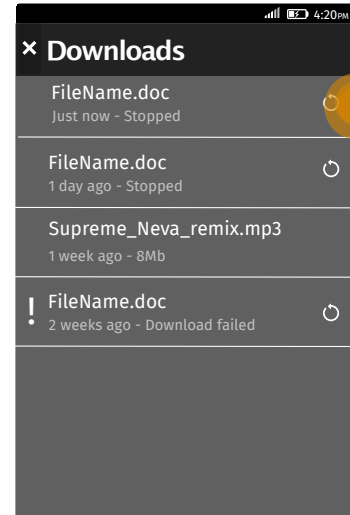
If the download is stopped, the Status bar downloading icon is dismissed and the download list item is shown in the stopped state. The download-in-progress notification is removed from the notifications tray.

The user can restart downloads by tapping on the restart button.

8. Download completes
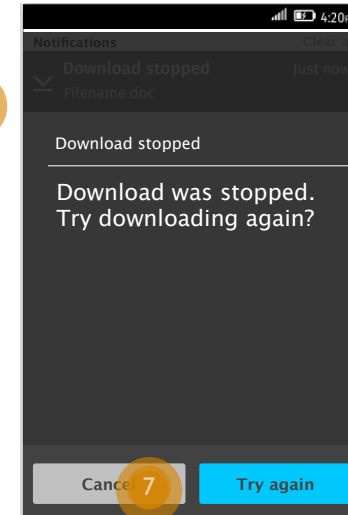
Tapping the retry button prompts the user if they want to download again. If the user accepts, the download is retried – if possible, resuming at the point from which it was stopped.

Tapping cancel closes the prompt.

9. Download stopped
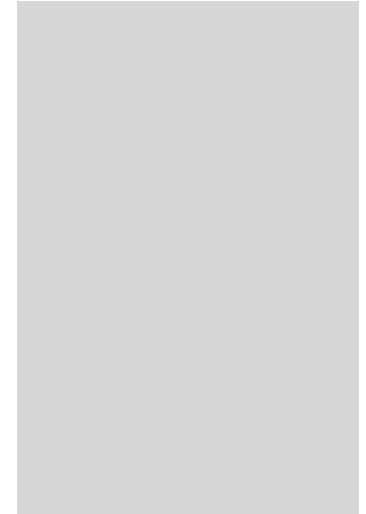
Download Failure – Generic
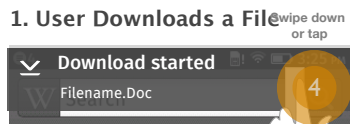
1. User Downloads a File

Swipe down or tap

Download started
Filename.Doc

4

Main Page

Today's featured article

Typhoon Pongsona was the last typhoon of the 2002 Pacific typhoon season, and was the second-costliest United States disaster in 2002 behind Hurricane Lili. The name "Pongsona" was contributed by North Korea for the Pacific tropical cyclone list and is the Korean name for the garden balsam. Pongsona developed out of an area of disturbed weather on December 2, and steadily intensified to reach typhoon status on December 5. On

As soon as download is started, a notification is received to inform the user that a download has started.

2. Banner dismissed

4:20PM

Search
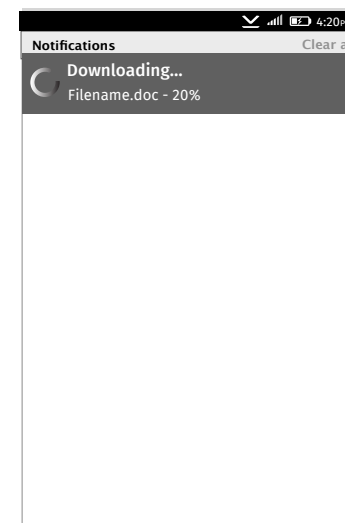
Main Page

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If the user does nothing, the notification banner automatically dismisses.
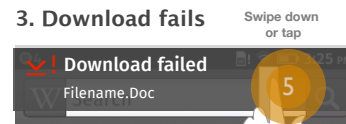
3. Download fails

Swipe down or tap

Download failed
Filename.Doc

5

Main Page

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Typhoon Pongsona was the last typhoon of the 2002 Pacific typhoon season, and was the second-costliest United States disaster in 2002 behind Hurricane Lili. The name "Pongsona" was contributed by North Korea for the Pacific tropical cyclone list and is the Korean name for the garden balsam. Pongsona developed out of an area of disturbed weather on December 2, and steadily intensified to reach typhoon status on December 5. On
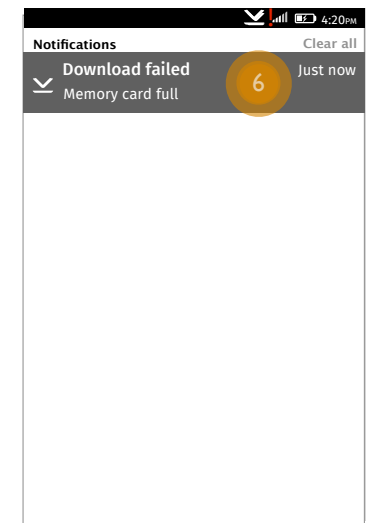
If the download fails, the download notification is replaced by a download failed notification. The download icon stops animating and is replaced by the download failed icon.

4. Utility tray

4:20PM

Notifications   Clear all

Downloading...
Filename.doc - 20%

If a download is in progress, the download notification show ongoing download progress. Tapping on the notification opens the Download list.

5. Utility tray

4:20PM

Notifications   Clear all

Download failed   Just now
Filename.doc

6

If the download fails, the download notification is replaced by a download failed notification.

Download Failure – Generic

6. Download error

all ▭▭ 4:20PM

Download failed

Filename.doc failed to download. Try downloading again?

Cancel   Try again   4

Tapping the download failed notification prompts the user if they want to download again. If the user accepts, the download is retried – if possible, resuming at the point from which it failed.

Tapping cancel closes the error message and clears the notification.

Download Failure – Not enough memory on SD card

1. User Downloads a File *Swipe down or tap*

As soon as download is started, a notification is received to inform the user that a download has started.

2. Banner dismissed

If the user does nothing, the notification banner automatically dismisses.

3. Download fails *Swipe down or tap*

If the download fails, the download notification is replaced by a download failed notification. The download icon stops animating and is replaced by the download failed icon.

4. Utility tray

If a download is in progress, the download notification show ongoing download progress. Tapping on the notification opens the Download list.

5. Utility tray

If the download fails, the download notification is replaced by a download failed notification.

Download Failure – Not enough memory on SD card
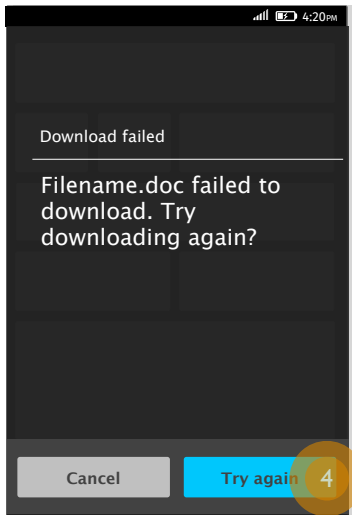
6. Download error

Tapping the download failed
notification prompts the user if
they want to download again. If
the user accepts, the download
is retried – if possible, resuming
at the point from which it failed.

Tapping cancel closes the error
message and clears the
notification.

Opening files
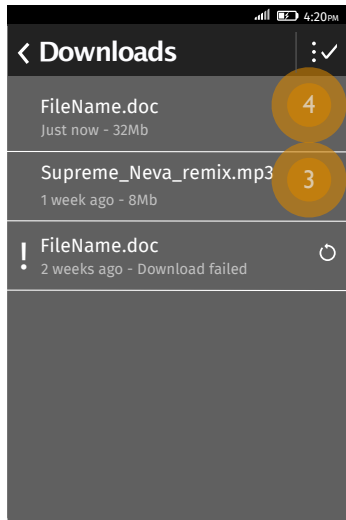
1. Download list

A user can open files by tapping on completed downloads in the download list, or by tapping on a download complete notification.

2. Notification
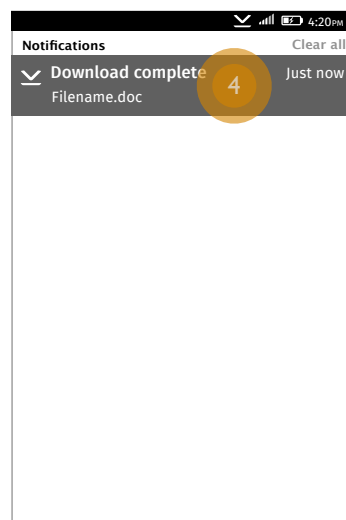
3. Open file
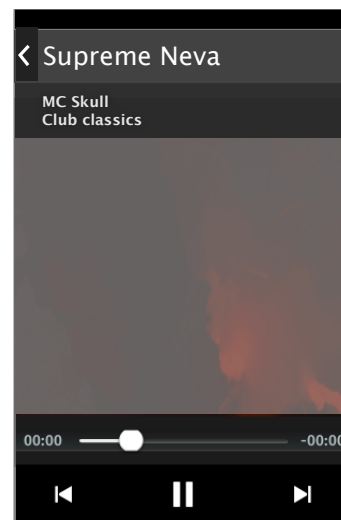
If there is a default application or only one application that can handle the file type, launch the app and open the file.

If the file was opened from the notification tray, clear the download complete notification.

4. Open file activity picker
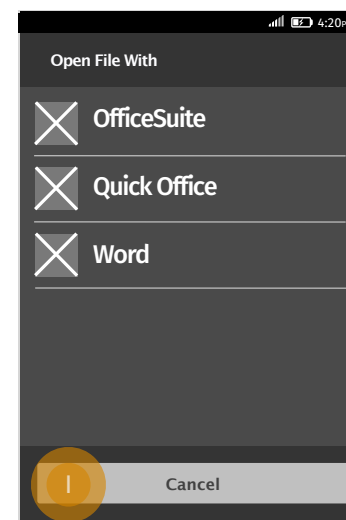
Otherwise, the user can choose which app to open the file.

Canceling returns to what the user was previously doing. If the file was opened from the notification tray, the notification should not be cleared yet as the file was not successfully opened.

Downloading Multiple Files
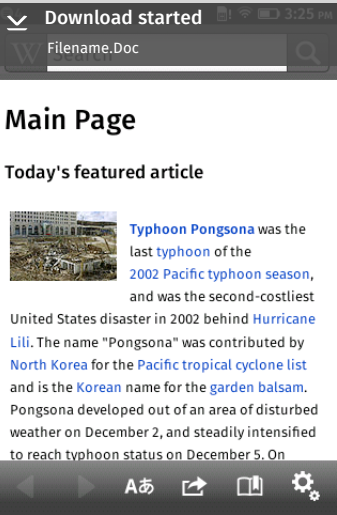
1. User Downloads a File

As soon as download is started, a notification is received to inform the user that a download has started. A downloading status bar indicator is shown.

2. Notification dismissed
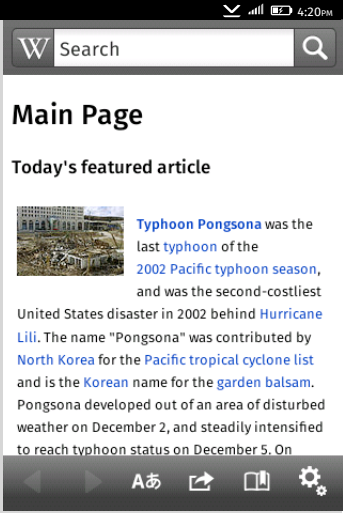
If the user does nothing, the notification banner automatically dismisses.

3. Download complete

Swipe down or tap

If the user initiates a new download, a new notification is received to inform the user that a download has started.

4. Utility tray
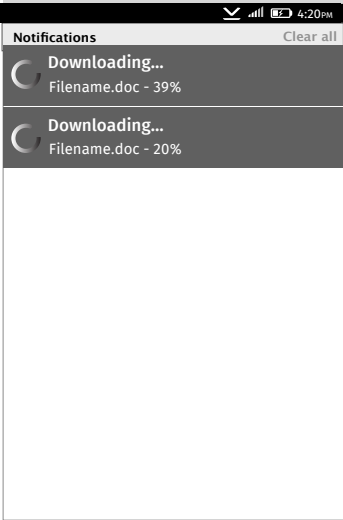
The notifications tray shows a separate notification for each download.

Tapping on the notification opens the download list.

Accessing the Download List

1. Settings

Settings

Device

Device information
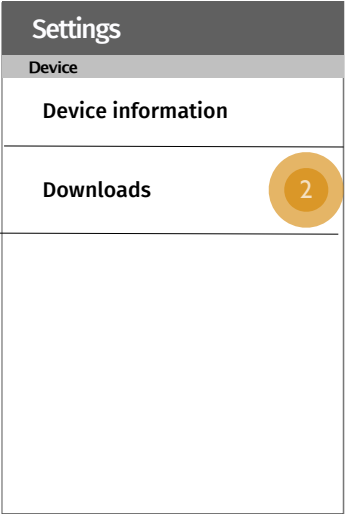
Downloads   2

User can access download list at any time as a top level setting from the Settings app.

2. Download list

‹ **Downloads**   ⋮✓

FileName.doc   ✕
4.1 of 7Mb

FileName.doc   ✕
25Mb of 32Mb

Supreme_Neva_remix.mp3
1 week ago - 8Mb

! FileName.doc
2 weeks ago - Download failed
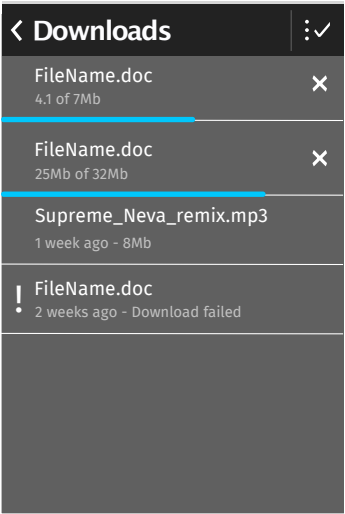
The download list is displayed.
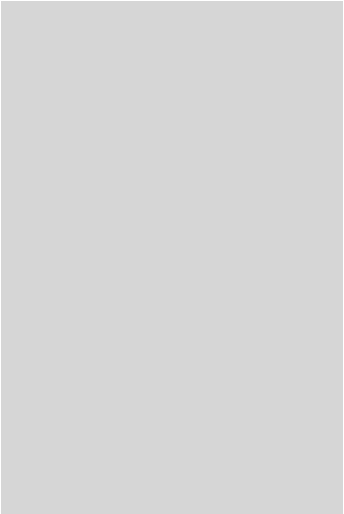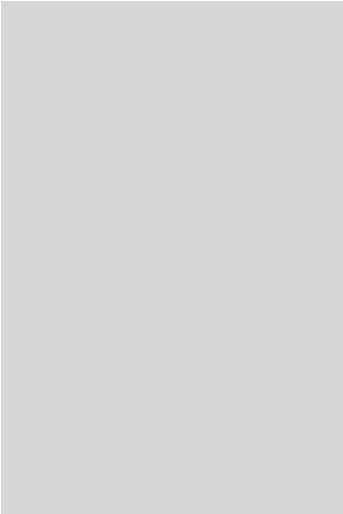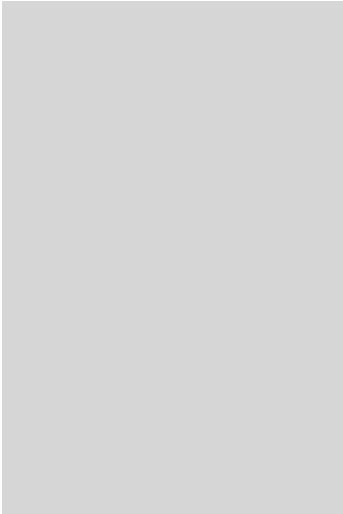
Deleting files – single file deletion
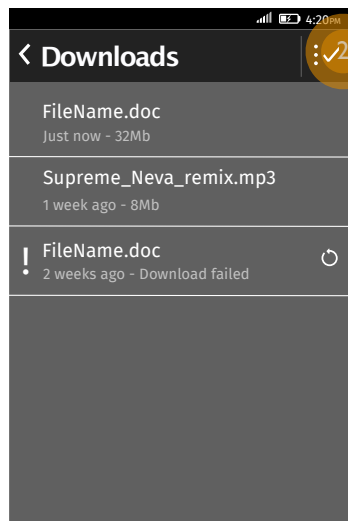
1. Download list

A user deletes downloads by firstly tapping the edit button.
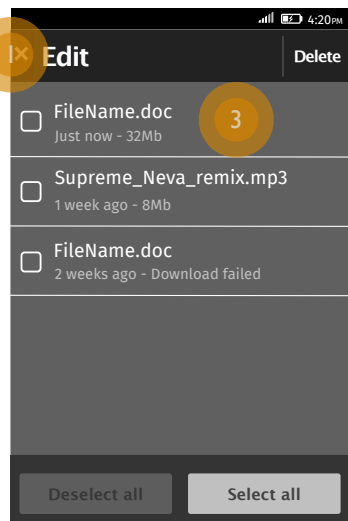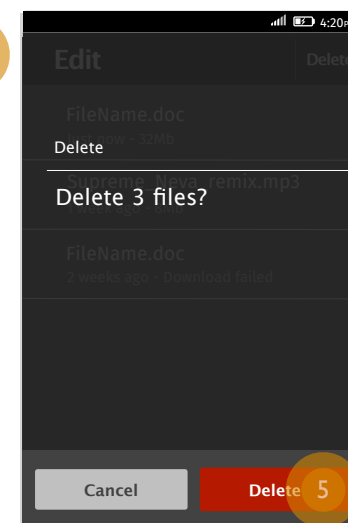
2. Edit mode

The download list enters edit mode. The editing top and bottom chrome slide in, as per the Messaging app. In the edit mode, the user can select which messages to delete either by tapping on list items or by using the Select all/Deselect all buttons that appear. The user should be able to tap anywhere within the list item to select/deselect it. The selection pattern follows the Messaging app.
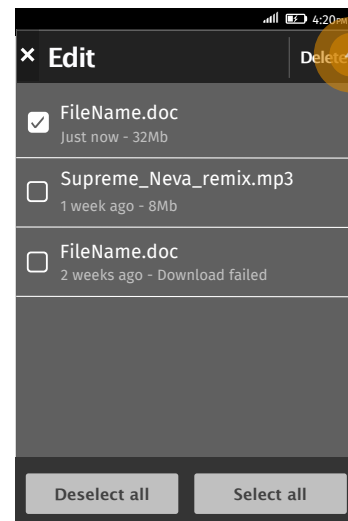
3. Edit mode

The user taps the Delete button to delete selected files.
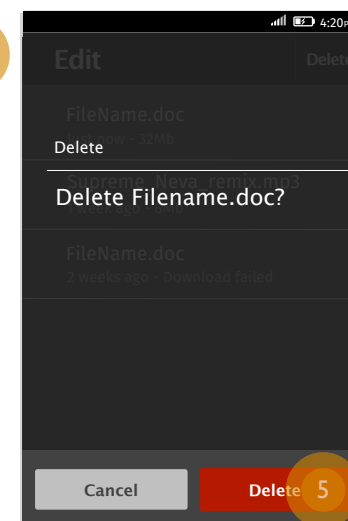
4. Confirmation

A confirmation dialog is shown to confirm the user's intention to delete the file.

5. Download list
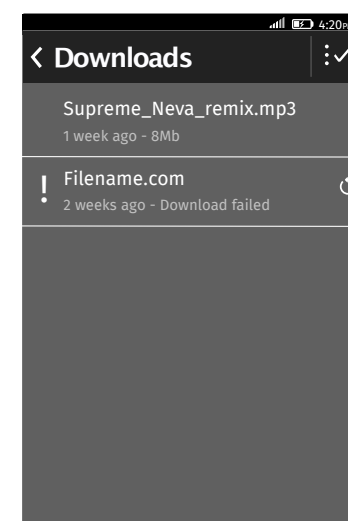
The Edit mode is dismissed and the user is returned to the Download List.

Deleting file – multiple file deletion
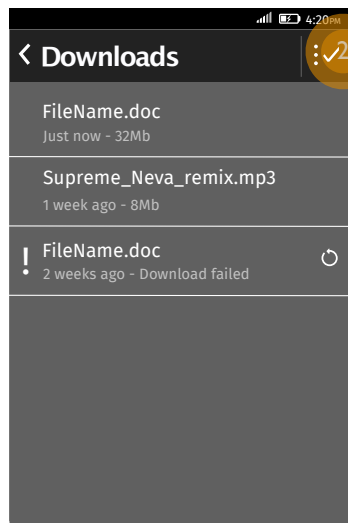
1. Download list

A user deletes downloads by firstly tapping the edit button.
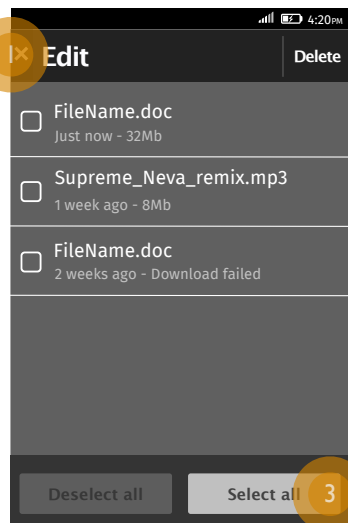
2. Edit mode

The download list enters edit mode. The editing top and bottom chrome slide in, as per the Messaging app.
In the edit mode, the user can select which messages to delete either by tapping on list items or by using the Select all/Deselect all buttons that appear. The selection pattern follows the Messaging app.
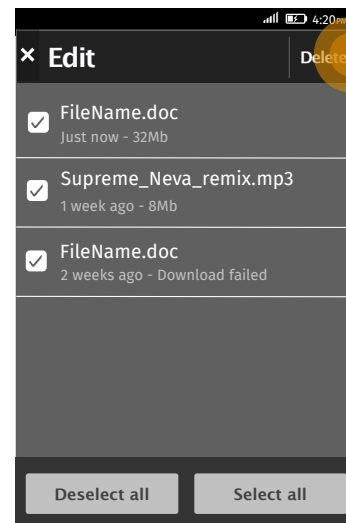
3. Edit mode

The user taps the Delete button to delete selected files.

4. Confirmation

A confirmation dialog is shown to confirm the user's intention to delete the file. The dialog should contain the title "Delete" and the text "Delete <n> files?" where n is the number of files selected for deletion.

5. Download list
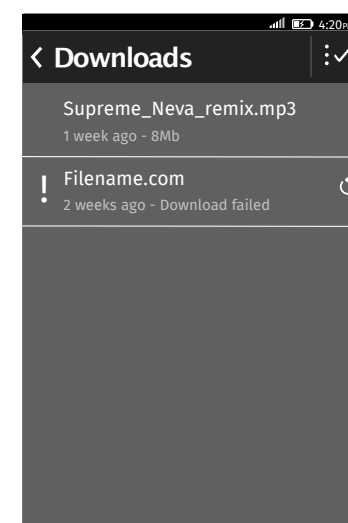
The Edit mode is dismissed and the user is returned to the Download List.

Set as ringtone

1. Download list
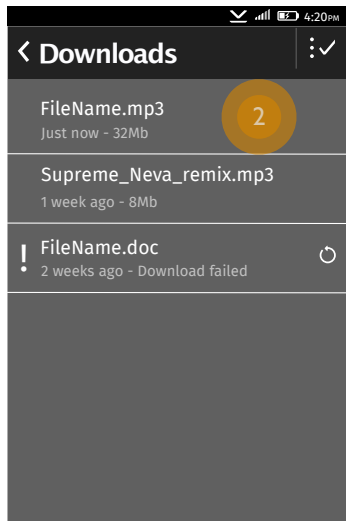
User taps on a file that can be set as a ringtone.

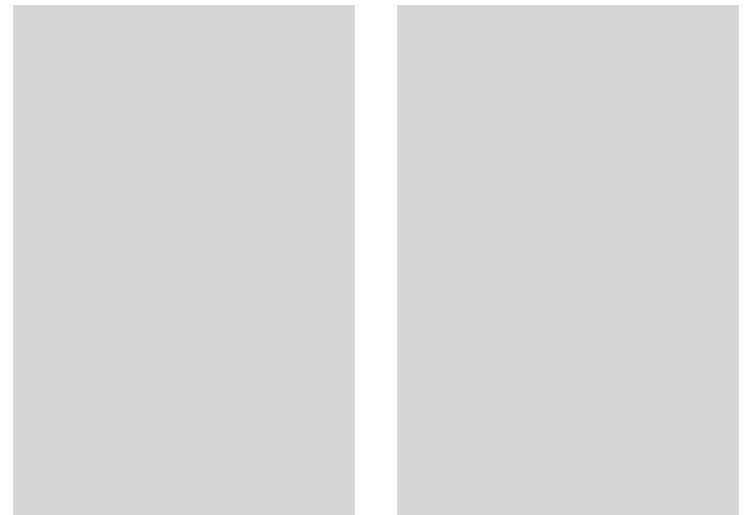**2. Set as ringtone action menu**
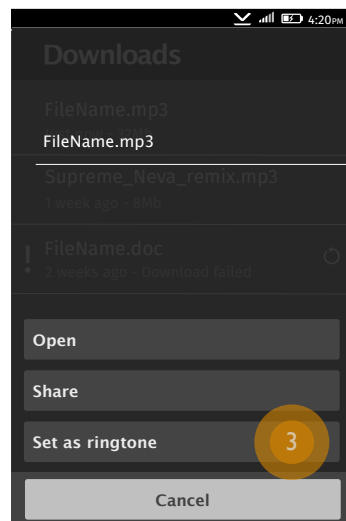
Action menu gives the user the option to set as ringtone, share, or open the file.

3. Ringtone preview
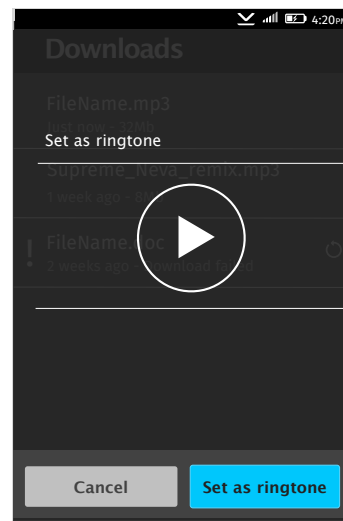
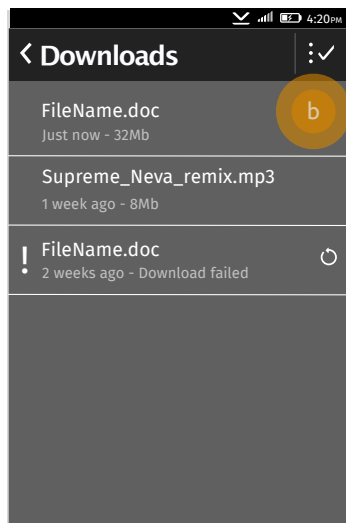User can preview the file, or opt to set the file as a ringtone.

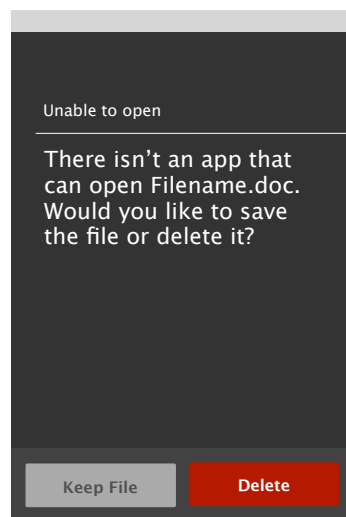# Errors

Errors – Unsupported File Type

E4a. Settings Drawer
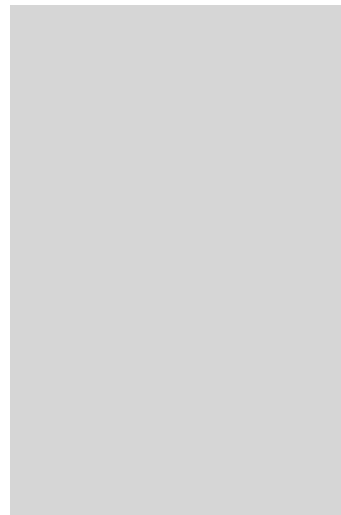

E4b. Error Message

E4c. Confirmation

E4d. Widget Removed

Trying to open a file type that isn't supported, shows an error message.

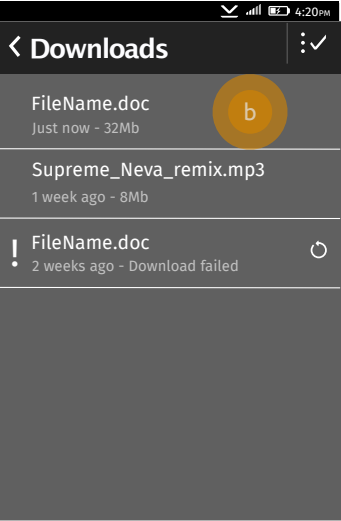The user has two options to proceed:
– delete the file
– do nothing
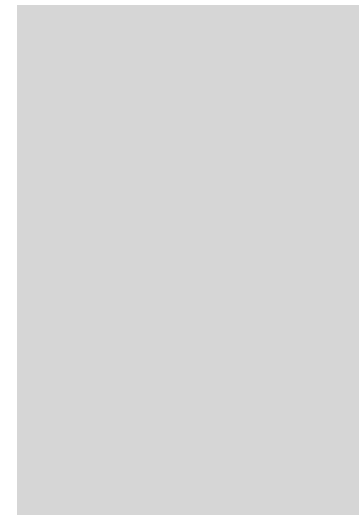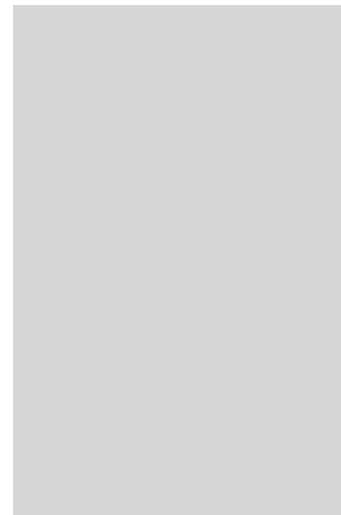
Errors – File Not Found

updated v 0.1

E5a. Settings Drawer

When a user tries to open a file that cannot be found on the SD card, show an error message.
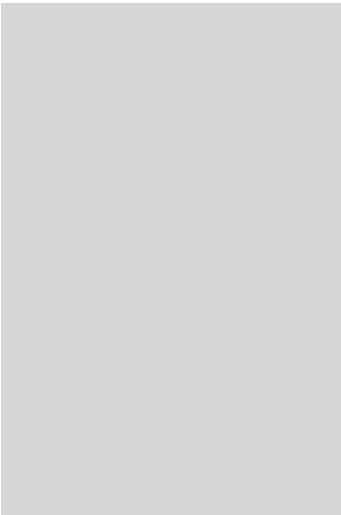
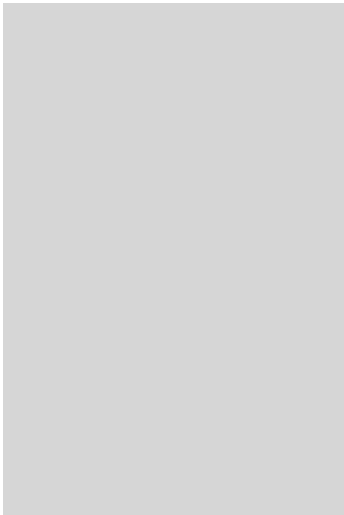**E5b. Error Message**

Tapping OK returns to the Settings Drawer.
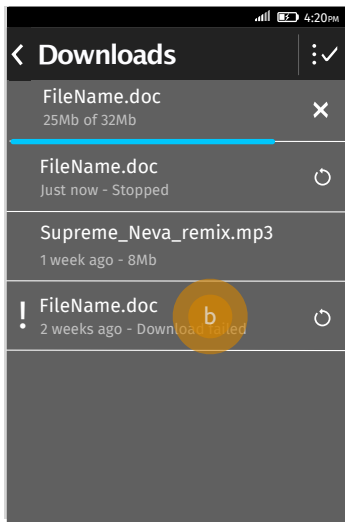
E5d. Widget Removed

4. [View name]

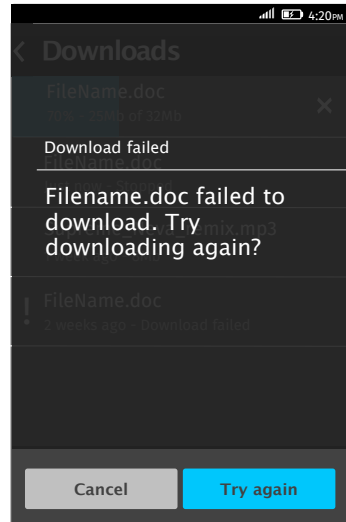**5. [View name]**

[Insert description here]

Errors – Download failed

E6a. Download List

E6b. Error details

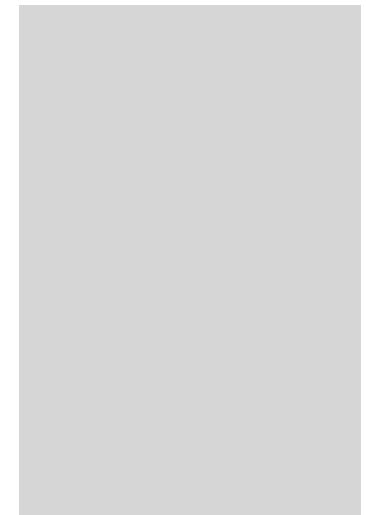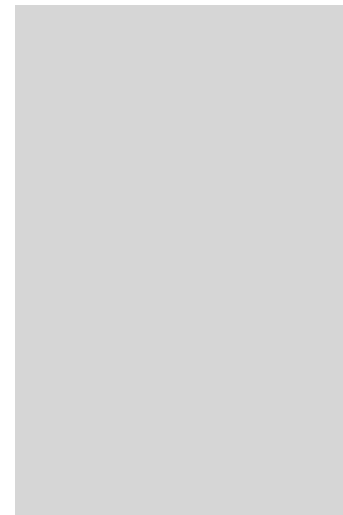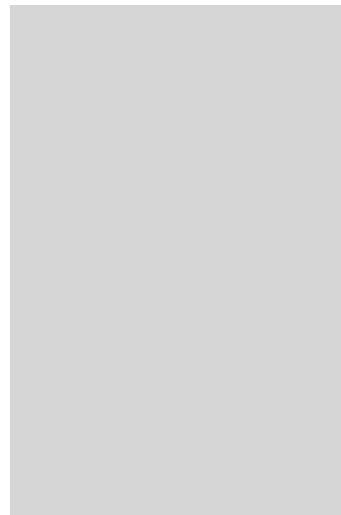When a user tries to open a file that failed to download, show an error message.
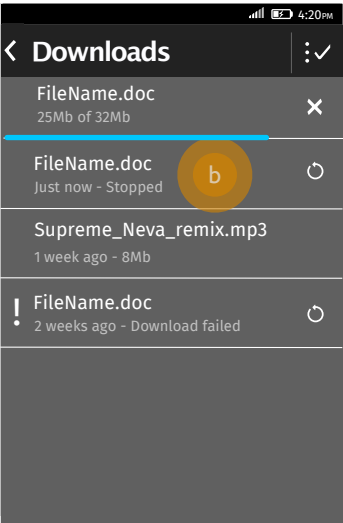
Displays error message providing further details of the error. Would there be an option to try downloading again in some cases?

Errors – Download stopped
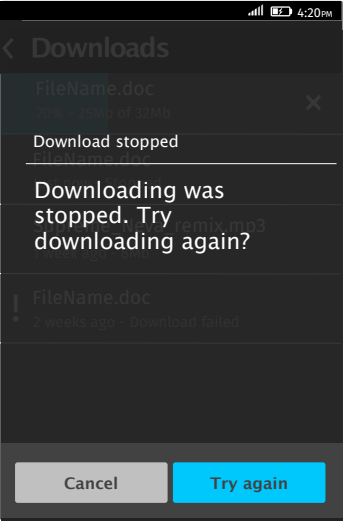
E7a. Download List
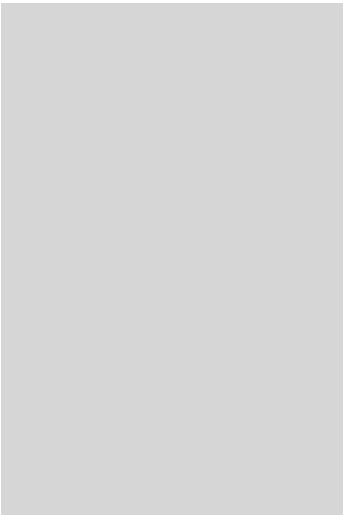

E7b. Error details
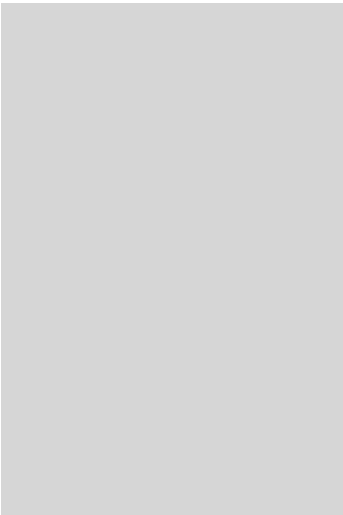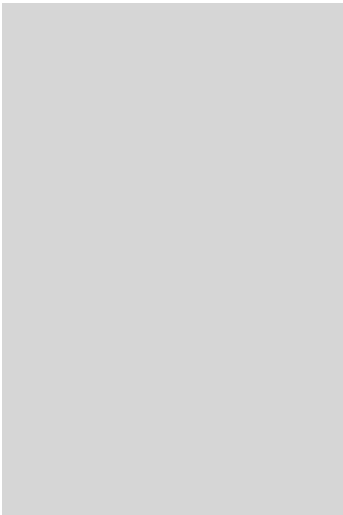

When a user tries to open a file that had been stopped, show an error message.

Displays error message providing further details of the error and an option to try downloading again.

Errors – General File Open Error

updated v 0.1

E8a. Settings Drawer

‹ **Downloads**   ⋮ ✓

FileName.doc
Just now - 32Mb   **b**

Supreme_Neva_remix.mp3
1 week ago - 8Mb

! FileName.doc   ↻
• 2 weeks ago - Download failed
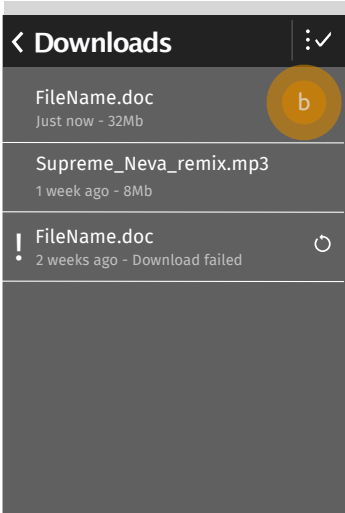
When a user tries to open a file
and there is a general error not
otherwise covered, show an
error message.

E8b. Generic error

Unable to open

There is a problem
opening Filename.doc

Would you like to save
the file or delete it?

| Keep File | Delete **c** |
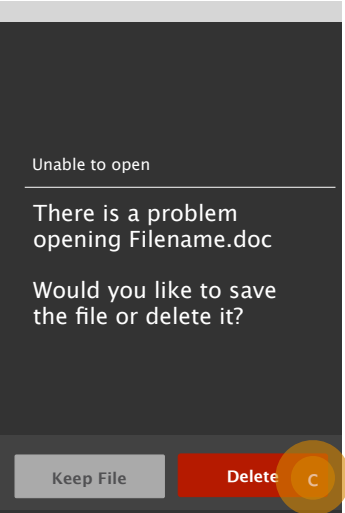
The user has two options to
proceed:
– delete the file
– do nothing

E8c. Confirmation

Confirmation

Delete Filename.doc?

| Cancel | **Delete** |
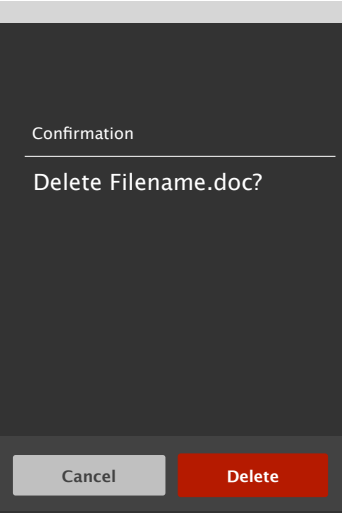
Before deleting the file, confirm
the action with the user.

5. [View name]
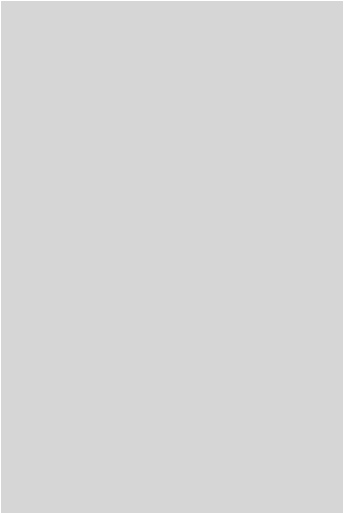
[Insert description here]

Download Notification and View details

Notification Details

Possible Notification States

A

Downloading...
Filename.doc - 20%

B

Download complete   Just now
Filename.doc

C

Download failed   Just now
Filename.doc

A **Download in Progress**
Contains:
1: Animating spinner component.
2: Text Line 1: "Downloading..."
3: Text Line 2: "<filename.ext> <separator> <n><%> ",
where:
– "<filename.ext>" is the name and extension of the file
being downloaded. If the filename is too long and does not
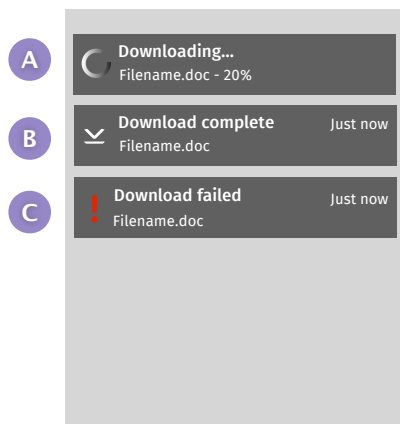fit within the space, the filename should truncate with an
ellipsis but the extension should still be shown
– n is the percentage that the download in progress has
been downloaded.
All text after <filename.ext> should only be shown if the
system is aware of progress of the download.

Upon Tap
Opens the Download List.

B **Download complete**
Contains:
1: Download icon.
2: Text Line 1: the text "Download complete"
3: Text Line 2: "<filename.ext>", where "<filename.ext>"
is the name and extension of the file being downloaded. If
the filename is too long and does not fit within the space,
the filename should truncate with an ellipsis but the
extension should still be shown
4: A timestamp showing when the download completed.
Upon Tap
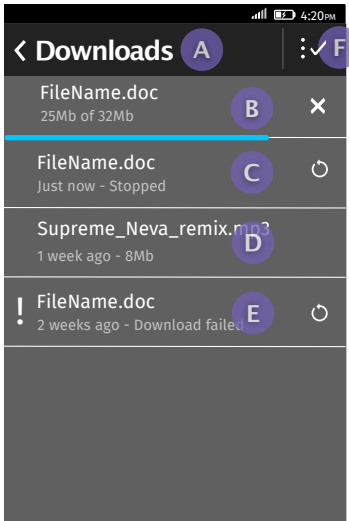Attempts to open the file.

C **Download failed**
As per Download complete notification, except:
– a Download failed icon is shown instead of a
Download icon.
– Text line 1: the text "Download failed"
– timestamp shows time at which download failed.
Upon Tap
Prompts the user if the wish to retry the download.

Download List

‹ Downloads A ⋮✓ F

FileName.doc	B ✕
25Mb of 32Mb	
FileName.doc	C ↻
Just now - Stopped	
Supreme_Neva_remix.mp3	D
1 week ago - 8Mb	
! FileName.doc	E ↻
• 2 weeks ago - Download failed	

A **Title**
Title text: "Downloads"

B **Download in progress**
Shown when a download is in progress. Contains a progress bar that fills across the list item as the download progresses. Contains:

1. Text Line 1: ""<filename.ext>", where "filename.ext>" is the name and extension of the file being downloaded. If the filename is too long and does not fit within the space, the filename should truncate with an ellipsis but the extension should still be shown.
2. Text Line 2: "<y> <size> of <z> <size>" where <y> is the amount downloaded so far and <z> is the total size of all current downloads.
<size> – **as per Download in progress notification**
3. Stop icon. Upon tap, stops the download.

C **Download stopped**
As per **Download in progress** except:

No progress bar.
Text Line 2: "<timestamp> <separator> Stopped" where <timestamp> is the time at which the download was stopped.
Contains a retry button– upon tap, retry the download.

Upon Tap
Displays an error message – see Errors section.

D **Download completed**
As per **Download in progress** except:

No progress bar.
Text Line 2: "<timestamp> <separator> <x> <size>" where <time> is the time at which the download was completed, <x> is the total size of the download.
<size> should be Kb if the total size is less than 1Mb and Mb otherwise. If Mb are shown, then <x> should be shown to the nearest decimal.

Upon Tap
Attempts to open file.

E **Download failed**
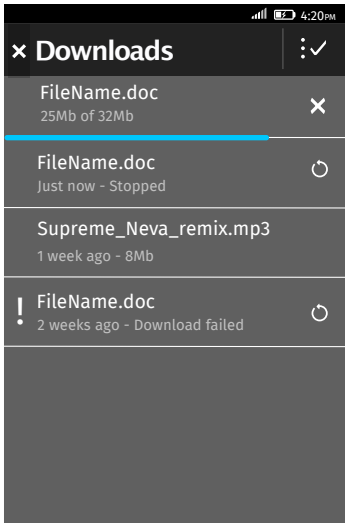As per **Download in progress** except:

No progress bar.
Error icon shown in list.
Text Line 2: "<timestamp> <separator> Download failed" where <time> is the time at which the download failed.
Contains a retry button– upon tap, retry the download.

Upon Tap
Displays an error message – see Errors section.

F **Edit button**
upon tap: enters edit mode
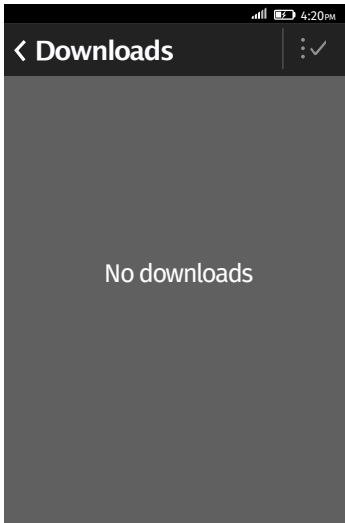
Download List (invoked from Notification)

When the Download List is invoked from a notification (not from the Settings app), a "Close" button should be displayed in place of the "Back" button. The "Back" button should be reserved for within-app navigation.

Download List (empty)

‹ **Downloads**

No downloads

If the Download list is empty, show the text "No downloads" in the view. The Edit button should be dimmed.

Deferred/Not In Scope Work

Errors – Connection Lost

E1a. Banner

Connection lost - download stopped.
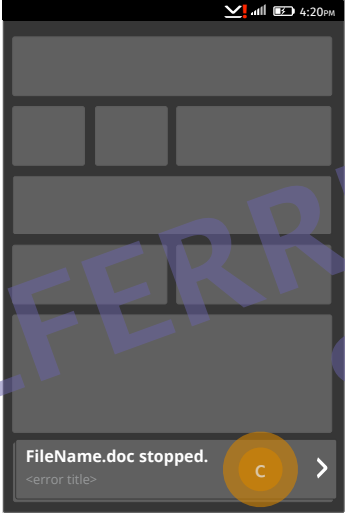
Download has been interrupted due to lack of connectivity and is unable to continue. (e.g. airplane mode, Wi-Fi turned off, loss of signal, etc)

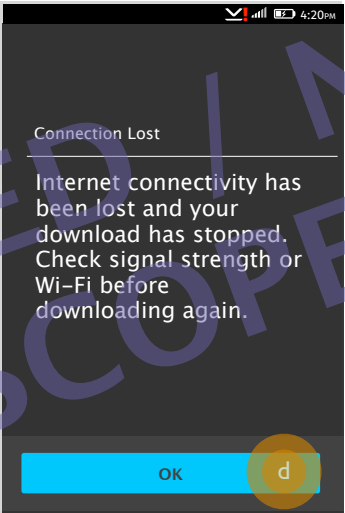A banner is shown and the downloading icon is updated.

E1b. Widget Updated

FileName.doc stopped.
<error title>

c

The widget is updated to show the download has stopped.

<error title> is the same as the Error Message title.

Tapping shows more information about what caused the error.
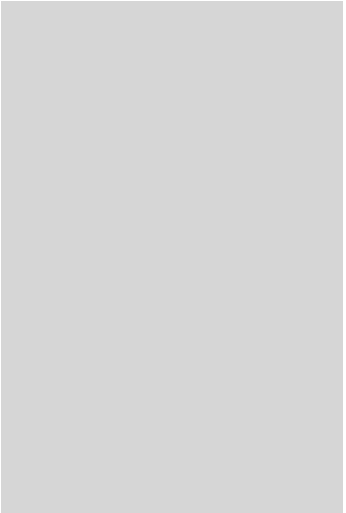
E1c. Error Message

Connection Lost

Internet connectivity has been lost and your download has stopped. Check signal strength or Wi-Fi before downloading again.

OK   d

Tapping OK returns to Settings Drawer.

E1d. Widget Removed
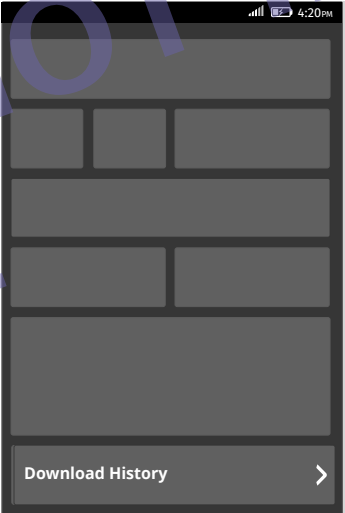
Download History

The widget is removed and the error icon is removed from the status bar. History is now above the fold.

5. [View name]

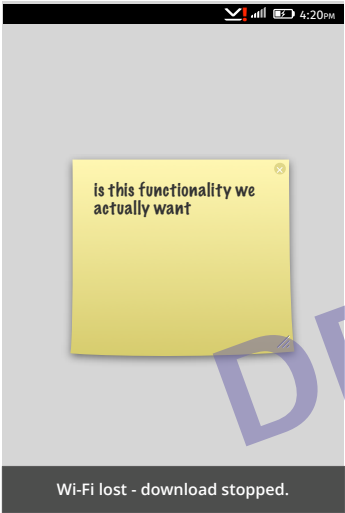[Insert description here]

Errors – Left Wi-Fi Hotspot

E2a. Banner

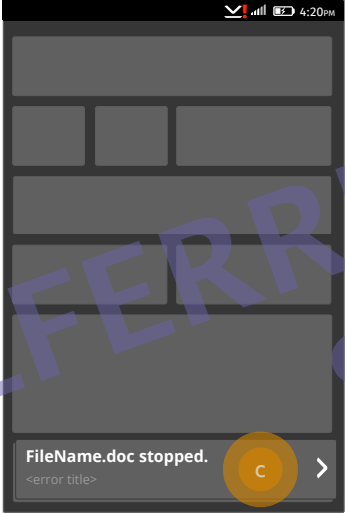is this functionality we actually want

Wi-Fi lost - download stopped.

When the user leaves wi-fi, the download should stop to prevent usage of data.

A banner is shown and the downloading icon is updated.

E2b. Widget Updated

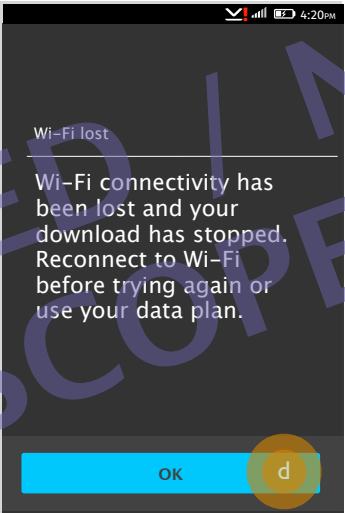FileName.doc stopped.
<error title>

The widget is updated to show the download has stopped.

<error title> is the same as the Error Message title.

Tapping shows more information about what caused the error.

E2c. Error Message

Wi-Fi lost

Wi-Fi connectivity has been lost and your download has stopped. Reconnect to Wi-Fi before trying again or use your data plan.

OK

Tapping OK returns to Settings Drawer.

E2d. Widget Removed
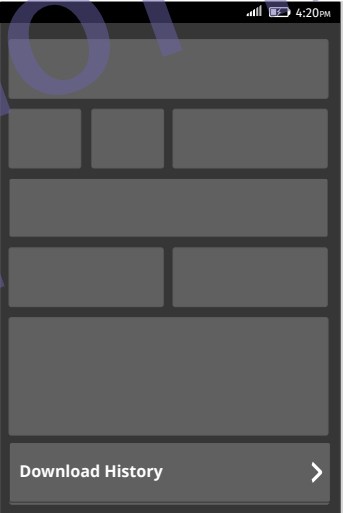
Download History

The widget is removed and the error icon is removed from the status bar. History is now above the fold.

5. [View name]

[Insert description here]

Errors – Power Loss

E3a. Settings Drawer

E3b. Phone Off

E3c. Restart Phone

E3d. Updated Widget

E3e. Error Message

FileName.doc downloading...
75% - 25 MB of 30 MB

is a banner overkill? is it obvious that the download got stopped b/c the phone turned off?

FileName.doc stopped.
<error title>

Sudden power loss

The download has been stopped due to a sudden power loss to the phone. Check the battery level and try downloading again.

OK

Files are downloading when the phone loses power. (e.g. dead battery, power off, etc)

Phone is powered off.

Upon restart of phone, <something happens>

The widget is updated to show the download has stopped.

<error title> is the same as the Error Message title.

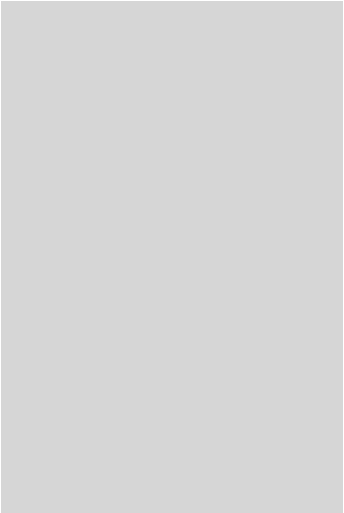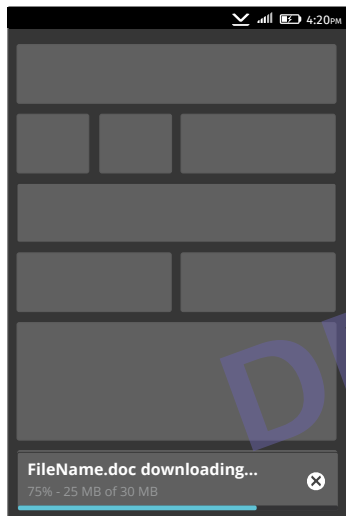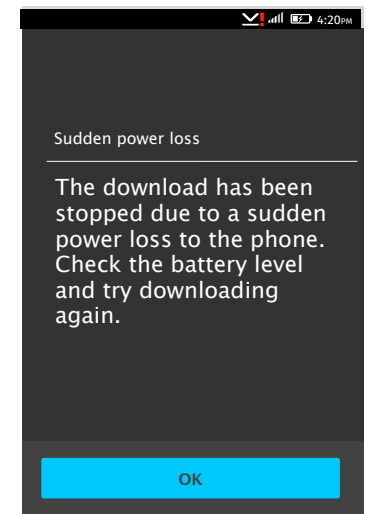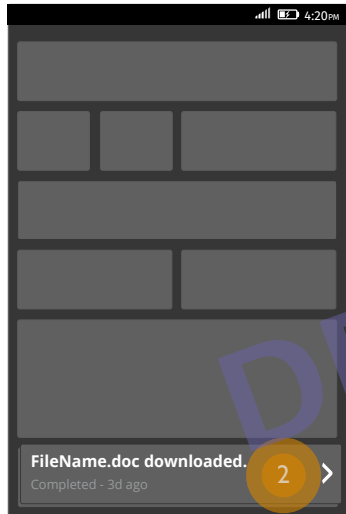Tapping shows more information about what caused the error.

Tapping OK returns to Settings Drawer and removes the widget.

DEFERRED / NOT IN SCOPE

Errors – Unsupported File Type

E4a. Settings Drawer

FileName.doc downloaded.
Completed - 3d ago

Trying to open a file type that isn't supported, shows an error message.

E4b. Error Message

Unable to open file

There isn't an app that can open your file. Go to Marketplace to download an app or delete file..

Go to marketplace
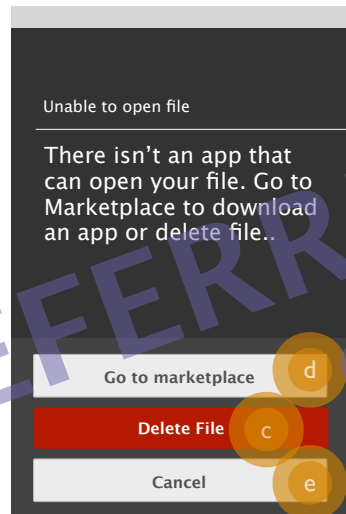
Delete File

Cancel

The user has three options to proceed:
– delete the file
– go to the market
– do nothing

E4c. Confirmation

Confirmation

Delete this file?
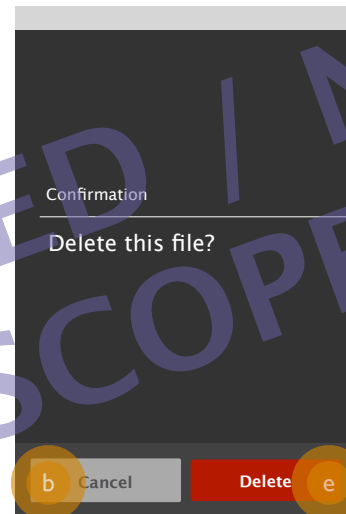
Cancel

Delete

Before deleting the file, confirm the action with the user.

E4d. Market

where in the market do we go?
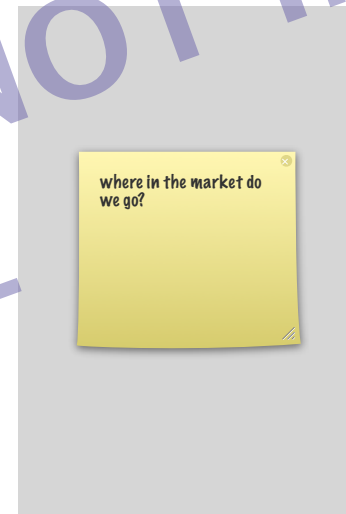
[Insert description here]

E4e. Widget Removed
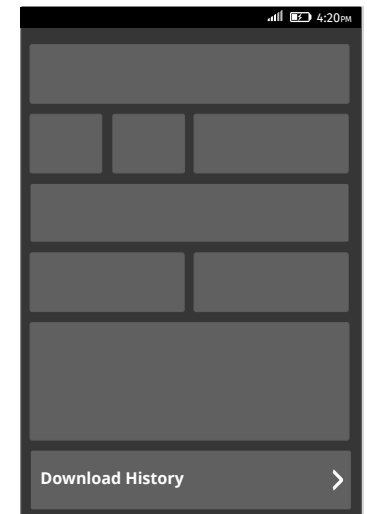
Download History
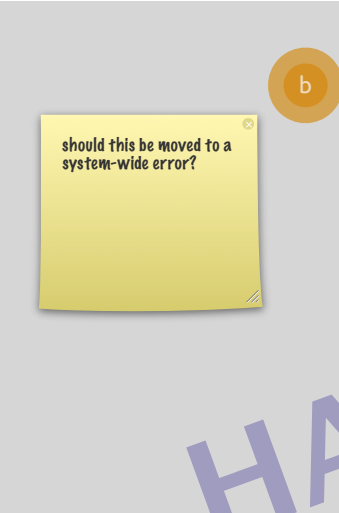
Cancelling returns to the Settings Drawer. The completed widget is removed, history is now above the fold.
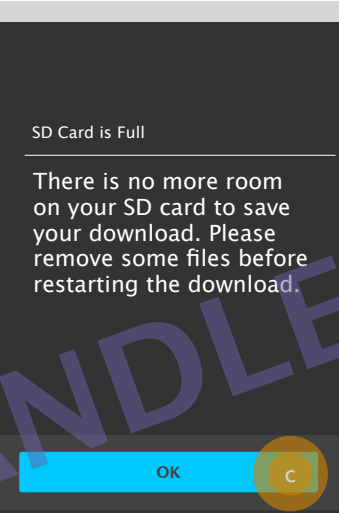
Errors – SD Card Full

E5a. Notification

should this be moved to a system-wide error?

b

Download has stopped/doesn't start because there isn't enough space on the SD card to save the file.

E5b. Error Message

SD Card is Full

There is no more room on your SD card to save your download. Please remove some files before restarting the download.

OK

c

Tapping OK <does something>

E5c. View Name

[Insert description here]

4. [View name]

[Insert description here]

5. [View name]

[Insert description here]

HANDLED BY SYSTEM
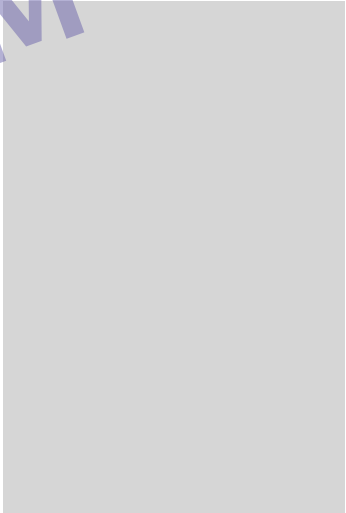
Errors – SD Card in Unavailable

E7a. Notification

should this be moved to a system-wide error?
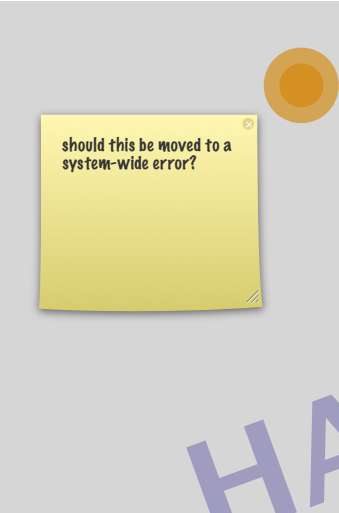
Downloads are in-progress when the SD card becomes unavailable (e.g. plugged into computer)

E7b. SD Card in Use

SD card in use

Unplug the phone to use this app.

Downloads have been paused.

When the phone is plugged into the computer (or SD card is otherwise being used), display this message.

User must unplug the phone before the app becomes available and they can continue the downloads.
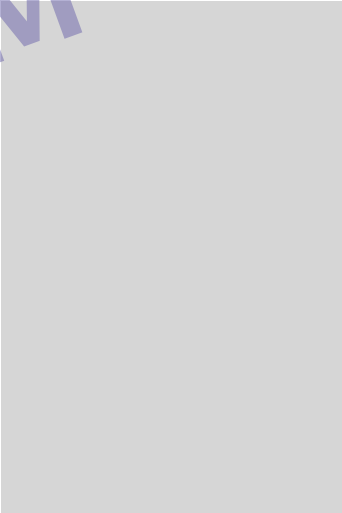
E7c. Updated Queue

When user unplugs the phone, the app returns to normal. The queue shows that the file has been paused. The user can try to restart the download.

E7d. Updated Notification

If the notification still exists, it should be updated to reflect the change in SD card availability.

5. [View name]

[Insert description here]

HANDLED BY SYSTEM

Errors – SD Card Missing

E7a. Notification

should this be moved to a system-wide error?

Downloads are in-progress when the SD card becomes unavailable (e.g. removed)

E7b. SD Card

SD card missing

An SD card is required to use this app.

Downloads have been paused.

When the SD card has been removed from the device, display this message.

User must re-insert SD card before the app becomes available and they can continue the downloads.

E7c. Updated Queue

When user inserts an SD card, the app returns to normal. The queue shows that the file has been paused. The user can try to restart the download.

E7d. Updated Notification

If the notification still exists, it should be updated to reflect the change in SD card availability.
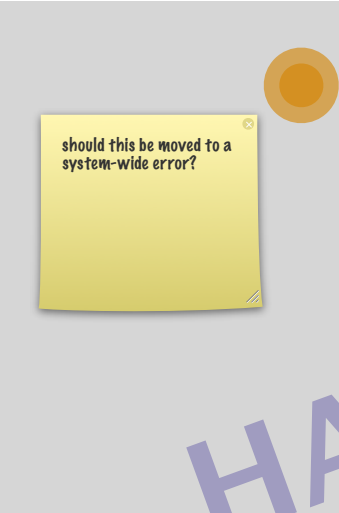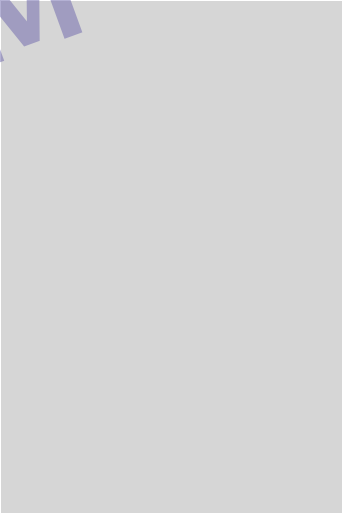
5. [View name]

[Insert description here]

HANDLED BY SYSTEM

Slide title

[Use the appendix to include background information, feature proposals, deferred features or other information that does not need to be part of the main document.]

[For deferred features, UX proposals and items that are not part of the current project scope, flag the views as "DEFERRED" or "NOT IN SCOPE" using the provided overlay.]

DEFERRED / NOT IN SCOPE

UX PROPOSAL

DRAFT

Thanks!

from your friends at Mozilla UX!