

Tumblr offline



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(Much of this is outdated)

Key values

- Big emphasis on having the app be as functional as possible without a connection
- Really not doing anything too clever here

Navigation

- Never prevent the user from navigating just because they're offline
- Very few "are we online?" checks in general
- An alert is shown when the app is foregrounded if there's no connection
- Screens will just be empty if the data isn't already cached

Displaying API data

- Core Data basically just used as a cache
 - When most recent data is fetched from can API route, delete all older data for that route
 - Perform general cleanup when application terminates
- If offline when user makes a new request, just call the controller back immediately without any new data

Images

- TMCache (open source)
 - Hybrid disk/memory cache (only using the disk part currently)
- Trim to max size on application background
 - Could keep it below limit but wanted to save CPU

POST requests

- OutstandingRequest Core Data entity
 - URL/parameters
 - Retry count/created date
- Provide immediate UI feedback
- Retry whenever the application is foregrounded
- Error reporting/confirmation is currently lacking

TMRequestProxy

- ➔ Delegate of an `NSOperation` subclass representing the actual HTTP request
 - ➔ Handles deleting the persistent object when the request completes or exceeds retries/max. age
- ➔ Can notify UI regarding upload progress
- ➔ This all happens regardless of if the user is online or offline

Push notifications

- Can't unregister from APNS directly
 - Use your own server
 - Use Apple's feedback mechanism to catch uninstalls
- Database wiped when user logs out
 - Logging out while offline = still receive push notifications