High Level Design

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Model 1 Responsibilities:

- URL Shortener
- Image filtering
- Sponsored item insertion
    - Images
    - Comments

Stories to base off of:

11. MEMBER POSTS A SHORTENED URL/LINK

14. MEMBER POSTS A PHOTO

15. MEMBER INSERTS SPONSORED ITEM INTO PHOTO

16. MEMBER REMOVES/REVERSES FILTER/SPONSORED ITEM

21. ADMIN ADDS SPONSORED CONTENT

22. ADMIN COMMENTS ON USER'S STATUS

23. ADMIN ADDS/REVERSES/REMOVES FILTER FROM A USER'S PHOTO

URL - Story 11

Image Sponsors - Story 14, 15, 16, 21, 23

Status Sponsors - Story 22

URL Class - Story 11

URL

static get_short_url(long_url) {return short_url} // matches long_url with short_url by querying db, if it doesn't exist it uses *create_short_url()* to create it
 	
static create_short_url(long_url) {return short_url} //creates and stores short_url from long_url using a hash function if it doesn't already exist by using *check_short_url()*
 	
static check_short_url(short_url){return boolean} //checks if short_url is in use
 	
static get_long_url(short_url) {return long_url} //matches short_url with long_url by querying db, if it doesn't exist return nil

Image Filtering Handler Class - Stories 14, 15, 16, 21, 23

Image Filtering Handler Class
original_image post_id modified_image item // sponsored item done_by_admin // boolean filters_list // list of tuples which include each filter's name, id, and filter_preview_url sponsored_items_list // a list of tuples, where each tuple contains a sponsored item's name, id, and image URL

get_filters_list(){ // return filters_list }
 	
get_sponsored_items_list(){ // return sponsored_items_list }
 	
call_filter(originial_image, filter_id, *args){ // passes the return of filter_id's respective class' filter method}
 	
remove_filters(){ // If there exists an original photo of what the current original_image is a filtered version of, return original photo, otherwise return original_image}

Image Filter Interface - Stories 14, 15, 16, 21, 23

Image Filter Interface
String filter_name String filter_preview_url //this conveys the filter's effect
filter(original_image, *args){ //returns the filtered image}

Ex: Swirl Implements Image Filter

Swirl Implements Image Filter
String filter_name String filter_preview_url
filter(original_image){ //returns a 'swirled' image}

Ex: Sponsored Item Insert Implements Image Filter

Sponsored Item Insert Implements Image Filter
String filter_name String filter_preview_url
filter(original_image){ //returns a 'swirled' image}

Comment Edit Class - Suggested Story

Comment Edit Class
comment_id comment edit

get_comment(comment_id){// returns comment at comment_id}
 	
get_edit(){// returns a string that the Admin would like to add to comment}
 	
edit_comment(edit){// returns an edited comment with value that indicates that the original poster should not be shown this comment}