

Dexter

(Final Year Project)

(Based on MVC Architecture)

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USER TABLE

NAME	NULL?	TYPE	DESC	DEFAULT
<u>USER ID</u>	NOT NULL	NUMBER	SELF GENERATED KEY	
USER NAME	NOT NULL	VARCHAR2	unique	
PASSWORD	NOT NULL	VARCHAR2		
PROFILE PICTURE		BLOB	size has to be decided	Dexter Logo
FIRST NAME		VARCHAR2		
LAST NAME		VARCHAR2		
EMAIL	NOT NULL	VARCHAR2		
LOCATION		VARCHAR2		
COUNTRY		VARCHAR2		
GENDER		BOOLEAN	True if male	
DATE OF BIRTH		DATE		
DATE JOINED	NOT NULL	DATE		
ACTIVITY VISIBLE TO	NOT NULL	NUMBER	only me(1), friends(2), everyone (3)	Everyone
DEFAULT CATEGORYID	NOT NULL	NUMBER	Foreign key	ALL
IF VALID	NOT NULL	BOOLEAN	used to soft delete a row	True

ADMIN TABLE

NAME	NULL?	TYPE	DESC	DEFAULT	CONSTRAINTS
<u>ADMIN ID</u>	NOT NULL	NUMBER			
USER ID	NOT NULL	NUMBER	FOREIGN KEY (USER TABLE)		

VISIBILITY VALIDATION TABLE

NAME	NULL?	TYPE	DESC	DEFAULT	CONSTRAINTS
<u>VISIBILITY VALIDATION ID</u>	NOT NULL	NUMBER			
VISIBILITY NAME	NOT NULL	VARCHAR2			
DATE ADDED	NOT NULL	DATE			
ADMIN ID	NOT NULL	NUMBER	FOREIGN KEY		
IF VALID	NOT NULL	BOOLEAN			

IM SERVICE TABLE (ADMIN ADDS IM SERVICE NAMES)

NAME	NULL?	TYPE	DESC	DEFAULT	CONSTRAINT
<u>IM SERVICE ID</u>	NOT NULL	NUMBER	SELF GENERATED KEY		
SERVICE NAME	NOT NULL	VARCHAR2(100)	gmail/yahoo/msn etc		
ADMIN ID	NOT NULL	NUMBER	FOREIGN KEY		
IF VALID	NOT NULL	BOOLEAN	used to soft delete a row	True	

USER LINK TABLE (LINKS TO USER'S WEBSITE, BLOGS AND SOCIAL SITE PROFILES)

NAME	NULL?	TYPE	DESC	DEFAULT	CONSTRAINT
<u>USER LINK ID</u>	NOT NULL	NUMBER	SELF GENERATED KEY		
USER ID	NOT NULL	NUMBER	FOREIGN KEY		
LINK DESCRIPTION	NOT NULL	VARCHAR2(500)			
LINK	NOT NULL	VARCHAR2(4000)			
IF VALID	NOT NULL	BOOLEAN	used to soft delete a row	True	

USER PREFERENCE TABLE

NAME	NULL?	TYPE	DESC	DEFAULT	CONSTRAINTS
<u>USER PREFERENCE ID</u>	NOT NULL	NUMBER			
USER ID	NOT NULL	NUMBER	FOREIGN KEY		
DEFAULT COMMENT SORT	NOT NULL	BOOLEAN	Oldest/Newest first	Oldest first(TRUE)	
COMMENT THRESHOLD	NOT NULL	NUMBER	-10/-5/0/5/10 votes or more	5	
COMMENT PAGE SIZE	NOT NULL	NUMBER	25/50/75/100 comments per page	20	
COMMENT REPLY COLLAPSED	NOT NULL	BOOLEAN		True	
IF VALID	NOT NULL	BOOLEAN	used to soft delete a row		

CATEGORY TABLE (ADMIN) [SELF REFERENCING TABLE](#)

NAME	NULL?	TYPE	DESC	DEFAULT	CONSTRAINT
<u>CATEGORY ID</u>	NOT NULL	NUMBER	SELF GENERATED KEY		
PARENT CATEGORY ID		NUMBER	FOREIGN KEY	NULL	
CATEGORY NAME	NOT NULL	VARCHAR2(50)			
DATE ADDED	NOT NULL	DATE			
ADMIN ID	NOT NULL	NUMBER	FOREIGN KEY		
IF VALID	NOT NULL	BOOLEAN	used to soft delete a row	True	

CATEGORY MUST HAVE A FIELD CALLED 'ALL'

CHANNEL TABLE (ADMIN) [SELF REFERENCING TABLE](#)

NAME	NULL?	TYPE	DESC	DEFAULT	CONSTRAINT
<u>CHANNELID</u>	NOT NULL	NUMBER	SELF GENERATED KEY		
PARENT CHANNEL ID		NUMBER	FOREIGN KEY	NULL	
CHANNEL NAME	NOT NULL	VARCHAR2(50)			
DATE ADDED	NOT NULL	DATE			
ADMIN ID	NOT NULL	NUMBER	FOREIGN KEY		
IF VALID	NOT NULL	BOOLEAN	used to soft delete a row	True	

USER CHOSEN CATEGORY TABLE

NAME	NULL?	TYPE	DESC	DEFAULT	CONSTRAINT
<u>USER CHOSEN CATEGORY ID</u>	NOT NULL	NUMBER	SELF GENERATED KEY		
USER ID	NOT NULL	NUMBER	FOREIGN KEY		
CATEGORY ID	NOT NULL	NUMBER	FOREIGN KEY		
IF VALID	NOT NULL	BOOLEAN	used to soft delete a row	True	

USER IM DETAIL TABLE

NAME	NULL?	TYPE	DESC	DEFAULT	CONSTRAINT
<u>USER IM ID</u>	NOT NULL	NUMBER	SELF GENERATED KEY		
USER ID	NOT NULL	NUMBER	FOREIGN KEY		
IM SERVICE ID	NOT NULL	NUMBER	FOREIGN KEY		
IM ACCOUNT NAME	NOT NULL	VARCHAR2(500)			
IF VALID	NOT NULL	BOOLEAN	used to soft delete a row	True	

FRIENDS TABLE

NAME	NULL?	TYPE	DESC	DEFAULT	CONSTRAINT
<u>FRIEND REQUEST ID</u>	NOT NULL	NUMBER	SELF GENERATED KEY		
USER NAME FROM	NOT NULL	NUMBER	FOREIGN KEY		
USER NAME TO	NOT NULL	NUMBER	FOREIGN KEY		
IF FRIEND	NOT NULL	BOOLEAN	True if user 2 accepts user1 invitation else if postponed then false	False	
IF VALID	NOT NULL	BOOLEAN	used to soft delete a row	True	

TABLE LEVEL CONSTRAINT

USER NAME FROM NOT EQUAL TO USER NAME TO

SHOUTS TABLE

NAME	NULL?	TYPE	DESC	DEFAULT	CONSTRAINTS
<u>SHOUT ID</u>	NOT NULL	NUMBER	SELF GENERATED KEY		
USER NAME FROM	NOT NULL	NUMBER	FOREIGN KEY		
USER NAME TO	NOT NULL	NUMBER	FOREIGN KEY		
SHOUT	NOT NULL	VARCHAR2(4000)			
TIME	NOT NULL	TIMESTAMP			

IF VALID	NOT NULL	BOOLEAN	used to soft delete a row	True	
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BLOCKED SHOUTS TABLE

It contains info regarding user who have been blocked by other users from sending them shouts.

A Person blocked cannot send friend request to the person who blocked him

"no shouts" from a to b, i.e. a is blocked) ,

NAME	NULL?	TYPE	DESC	DEFAULT	CONSTRAINTS
<u>BLOCKED SHOUTS ID</u>	NOT NULL	NUMBER	SELF GENERATED KEY		
USER NAME FROM	NOT NULL	NUMBER	FOREIGN KEY		
USER NAME TO	NOT NULL	NUMBER	FOREIGN KEY		
IF VALID	NOT NULL	BOOLEAN	used to soft delete a row		

BANNED USER TABLE

Users banned by admin

NAME	NULL?	TYPE	DESC	DEFAULT	CONSTRAINTS
<u>BANNED USER ID</u>	NOT NULL	NUMBER	SELF GENERATED KEY		
USER ID BANNED	NOT NULL	NUMBER	FOREIGN KEY		
ADMIN NAME	NOT NULL	VARCHAR2(250)	FOREIGN KEY		
DATE BANNED	NOT NULL	DATE	DATE ON WHICH BANNED		
IF VALID	NOT NULL	BOOLEAN	used to soft delete a row		

URL TABLE

NAME	NULL?	TYPE	DESC	DEFAULT	CONSTRAINT
<u>URLID</u>	NOT NULL	NUMBER	SELF GENERATED KEY		
UNESCAPEDURL	NOT NULL	VARCHAR2			

USER ID	NOT NULL	VARCHAR2	FOREIGN KEY		
CATEGORY ID	NOT NULL	NUMBER	FOREIGN KEY		
VOTE UP	NOT NULL	NUMBER		1	
VOTE DOWN	NOT NULL	NUMBER		0	
URL ICON		BLOB			
NO OF REPORTS	NOT NULL	NUMBER		0	
SUBMISSION DATE	NOT NULL	DATE			
IF VALID	NOT NULL	BOOLEAN	used to soft delete a row	True	

ACTIVITY TABLE

NAME	NULL?	TYPE	DESC	DEFAULT	CONSTRAINT
<u>ACTIVITY ID</u>	NOT NULL	NUMBER	SELF GENERATED KEY		
USER ID	NOT NULL	NUMBER	FOREIGN KEY		
URL ID	NOT NULL	NUMBER	FOREIGN KEY		
IF VOTED UP	NOT NULL	BOOLEAN			
ACTIVITY_TIME	NOT NULL	TIMESTAMP			
IF VALID	NOT NULL	BOOLEAN	used to soft delete a row	True	

KEYWORD URL TABLE

NAME	NULL?	TYPE	DESC	DEFAULT	CONSTRAINT
<u>KEYWORD URL ID</u>	NOT NULL	NUMBER	SELF GENERATED KEY		
URL ID	NOT NULL	NUMBER	FOREIGN KEY		
KEYWORD	NOT NULL	VARCHAR2(100)			
VOTE UP	NOT NULL	NUMBER			
VOTE DOWN	NOT NULL	NUMBER			
IF VALID	NOT NULL	BOOLEAN	used to soft delete a row	True	

URL DETAIL TABLE

NAME	NULL?	TYPE	DESC	DEFAULT	CONSTRAINT
<u>URL DETAIL ID</u>	NOT NULL	NUMBER			

<u>URL ID</u>	NOT NULL	NUMBER	FOREIGN KEY		
CACHEURL					
CONTENT					
TITLE					
TITLE NO FORMATTING					
VISIBLEURL					
IF VALID	NOT NULL	BOOLEAN	USED TO SOFT DELETE A ROW	TRUE	

FAVORITE TABLE

NAME	NULL?	TYPE	DESC	DEFAULT	CONSTRAINT
<u>FAVORITE ID</u>	NOT NULL	NUMBER	SELF GENERATED KEY		
USER ID	NOT NULL	NUMBER	FOREIGN KEY		
URL ID	NOT NULL	NUMBER	FOREIGN KEY		
LABEL		VARCHAR2 (1000)		NULL	
IF VALID	NOT NULL	BOOLEAN	used to soft delete a row	True	

URL REPORT TABLE

NAME	NULL?	TYPE	DESC	DEFAULT	CONSTRAINTS
<u>URL REPORT ID</u>	NOT NULL	NUMBER	SELF GENERATED KEY		
REPORTED URL ID	NOT NULL	NUMBER	FOREIGN KEY		
REPORTED BY	NOT NULL	VARCHAR2(250)	FOREIGN KEY (USER NAME OF USER WHO REPORTS)		
IF VALID	NOT NULL	BOOLEAN			

COMMENT TABLE (Self referencing Table)

NAME	NULL?	TYPE	DESC	DEFAULT	CONSTRAINT
<u>COMMENT ID</u>	NOT NULL	NUMBER			
URL ID	NOT NULL	NUMBER	FOREIGN KEY		
USER ID	NOT NULL	NUMBER	FOREIGN KEY		
PARENT COMMENT ID		NUMBER	FOREIGN KEY		
COMMENT_MADE	NOT NULL	VARCHAR2(4000)			

VOTE UP	NOT NULL	NUMBER		1	
VOTE DOWN	NOT NULL	NUMBER		0	
SUBMISSION DATE	NOT NULL	DATE			
NO OF REPORTS	NOT NULL	NUMBER		0	
IF VALID	NOT NULL	BOOLEAN	ONLY MODERATOR AND ADMIN CAN CHANGE THIS VALUE DEFAULT TRUE	True	

COMMENT REPORT TABLE

NAME	NULL?	TYPE	DESC	DEFAULT	CONSTRAINTS
<u>COMMENT REPORT ID</u>	NOT NULL	NUMBER	SELF GENERATED KEY		
REPORTED COMMENT ID	NOT NULL	NUMBER	FOREIGN KEY (COMMENT TABLE)		
REPORTED BY	NOT NULL	VARCHAR2(250)	FOREIGN KEY (USER NAME OF USER WHO REPORTS)		
IF VALID	NOT NULL	BOOLEAN			

MODERATOR TABLE

NAME	NULL?	TYPE	DESC	DEFAULT	CONSTRAINTS
MODERATOR ID	NOT NULL	NUMBER			
USER ID	NOT NULL	NUMBER	FOREIGN KEY		
ADMIN ID	NOT NULL	NUMBER	FOREIGN KEY		
IF VALID	NOT NULL	BOOLEAN	used to soft delete a row	True	

MODERATOR ACTION URL TABLE

NAME	NULL?	TYPE	DESC	DEFAULT	CONSTRAINTS
<u>MOD ACTION URL ID</u>	NOT NULL	NUMBER	SELF GENERATED KEY		
URL ID	NOT NULL	NUMBER	FOREIGN KEY		

ACTION TAKEN		VARCHAR2	DELETED/ CATEGORY CHANGED		
MODERATOR ID	NOT NULL	VARCHAR2(250)	FOREIGN KEY		
IF VALID	NOT NULL	BOOLEAN	used to soft delete a row	True	

TRIGGERS

If(ACTION TAKEN=TRUE) update URL table in corresponding row's IF VALID to false

MODERATOR ACTION COMMENT TABLE

NAME	NULL?	TYPE	DESC	DEFAULT	CONSTRAINTS
<u>MOD ACTION COMMENT ID</u>	NOT NULL	NUMBER	SELF GENERATED KEY		
COMMENT ID	NOT NULL	NUMBER	FOREIGN KEY		
ACTION TAKEN	NOT NULL	BOOLEAN	DELETED/OR NOT		
MODERATOR NAME	NOT NULL	VARCHAR2(250)	FOREIGN KEY		
IFVALID	NOT NULL	BOOLEAN	used to soft delete a row	True	

TRIGGERS

IF(ACTION TAKEN=TRUE) UPDATE COMMENT TABLE'S IF VALID TO FALSE

USER PRIVACY TABLE

NAME	NULL?	TYPE	DESC	DEFAULT	CONSTRAINTS
<u>USER PRIVACY ID</u>	NOT NULL	NUMBER			
USER ID	NOT NULL	NUMBER	FOREIGN KEY		
NAME VISIBILITY	NOT NULL		FOREIGN KEY (VISIBILITY VALIDATION TABLE)	Everyone	
AGE VISIBILITY	NOT NULL		FOREIGN KEY (VISIBILITY VALIDATION TABLE)	Everyone	
GENDER VISIBILITY	NOT NULL		FOREIGN KEY (VISIBILITY VALIDATION TABLE)	Everyone	
LOCATION VISIBILITY	NOT NULL		FOREIGN KEY (VISIBILITY VALIDATION TABLE)	Everyone	
EMAIL VISIBILITY	NOT NULL		FOREIGN KEY (VISIBILITY VALIDATION TABLE)	Everyone	
PROFILE LINKS VISIBILITY	NOT NULL		FOREIGN KEY (VISIBILITY VALIDATION TABLE)	Everyone	
SHOUTS VISIBILITY	NOT NULL		FOREIGN KEY (VISIBILITY VALIDATION TABLE)	Everyone	
IF VALID	NOT NULL	BOOLEAN	used to soft delete a row		