Group 5

First Chance Saloon

Dating Website

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Introduction

This project will be to produce an online dating agency. The basic functionality will allow users to register and describe themselves, as well as browse other users and perform various searches (e.g. list all men over 25 who listed swimming as a hobby).

High Level functionality

This website will support multiple users who are seeking a relationship. They will have two roles:

- Person initiating a contact
- Person receiving a request for a contact

The system will facilitate the communications between these two roles. The system will also support an administrator role whose function is to act as a mediator between users and will have the power to block or bar users. The system will monitor communications between users and automatically block messages that include inappropriate content.

Users will register their email address along with some personal details when setting up a new account. Once this is complete they will have access to do the following:

- Receive recommendations for people who match their profile
- Complete searches of the database to find people
- Communicate with other users
- Maintain account by updating profile, contact details or password
- Report inappropriate behaviour

For our website design we have chosen to take a minimalist approach in the number of questions being asked of the user. Based on our research we have concluded that physical attractiveness plays a major part in initial encounters (Swami & Furnham, 2008). The website will be limited geographically to Ireland.

User Stories

US001	User Profile	Priority	High
As A	User	Estimate	Medium
I would like	To be able to register a	user profile which include	es a description of
	myself and indicating m	y preferences for a partn	er
Because	I am seeking a relations	hip with another person	
Acceptance Criteria	 I can record the 	following details:	
	o Name		
	o Email		
	o Date of	birth	
	o Gender		
	 Preferred Partner gender 		
	o Password		
	 Location (nearest City) 		
	 Seeking 	Age Group	
	 Distance Will Travel 		
	o Relation	nship Type	
	o Photo		
	 I have the option of recording the following: 		
	Interests/Hobbies		
	o Bio		
	 User can only create a profile if they are over the age of 18 		
	 Passwords are ranked in order of secureness 		
	Only one profile	e per email address supp	orted

US002	Profile Matching List	Priority	High
As A	User	Estimate	High
I would like	To be able to search for	specific criteria	
Because	I would like to be able to	o complete broad searche	es for potential partners
Acceptance Criteria	hobbies or inter I can find poten The results are p	searches based on gender rests tial matches based on crit presented in photographi y interest in the listed pho	teria above c format

US003	Profile Matching List	Priority	High
As A	User	Estimate	High
I would like	To be able to see people	e who are matched to my	profile.
Because	I would like to see top p	otential partner	
Acceptance Criteria	partners Location is inclued I can view more contact I can mark a poor If I select a Good again This list is prese	ofile I can see a list of manded in the ranking with a details of a match and from tential match as "like, mand the down of the control of th	high weighting om there initiate lybe, goodbye".

US004	Initiate Request	Priority	High
As A	User	Estimate	Medium
I would like	Initiate chat with a pers	on	
Because	I would like to be able to request a chat with a potential match		
Acceptance Criteria	I can establish two-way conversation with another user		
	I can see chat history		

US005	Receive Request	Priority	High
As A	User	Estimate	Low
I would like	To be able to see a list of requests from other users		
Because	I need to see potential partners who are interested in meeting me		
Acceptance Criteria	List of requests are visible and I can view their profile		

US006	Moderation	Priority	Medium
As A	System Administrator	Estimate	Low
I would like	To be able to oversee communications between users and block illegal or explicit content.		
Because	The web site has a duty of care to their users		
Acceptance Criteria	 A black list of words is maintained Content containing black listed words is automatically blocked The request will expire after a number of days Option to report inappropriate content is available to users Option to ban users from using the site 		

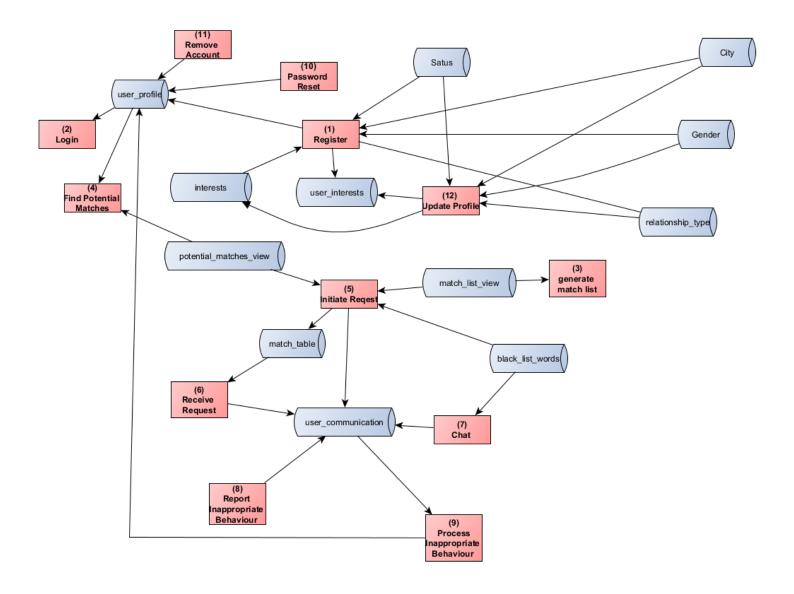
US007	Moderation	Priority	High
As A	System Administrator	Estimate	Low
I would like	Receive and process a notification of inappropriate behaviour from a user		
Because	The web site has a duty of care to their users		
Acceptance Criteria	 Users can be temporarily blocked from logging into the system for a period of time User can be blocked from communicating with another specific 		
	 user User can be permanently blocked from using the system 		

US008	Account destruction	Priority	Medium
As A	User	Estimate	Low
I would like	To be able to request that my account is removed from the system		
Because	GDPR compliance		
Acceptance Criteria	 User details including all communications from that user are removed from the system 		

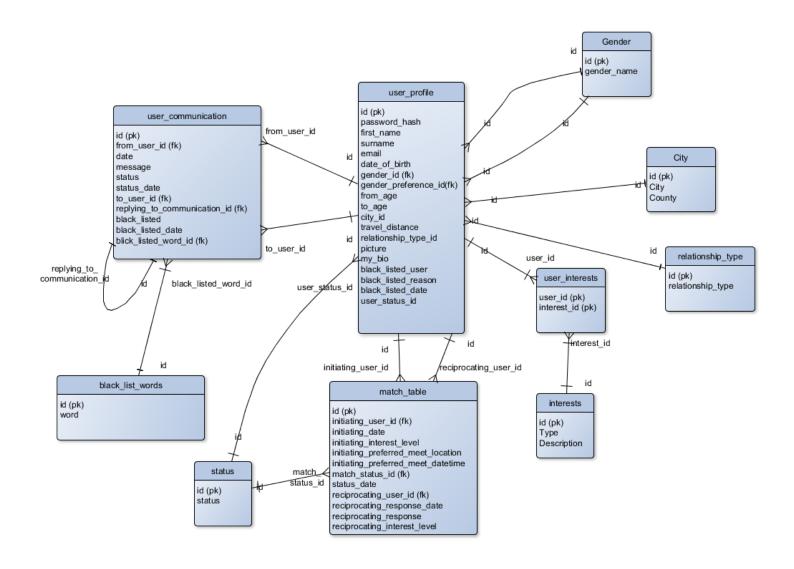
US009	Password reset	Priority	High
As A	User	Estimate	Low
I would like	To be able to reset my p	assword	
Because	I forgot my password		
Acceptance Criteria	Other users cannot reset my password		
	•		

US0010	Security	Priority	High
As A	System administrator	Estimate	Medium
I would like	To have security built in	to the website to prevent	Denial of Service (Dos)
	and other forms of mali	cious code from being sto	red in the database
Because	I want to ensure availab	ility of the website to our	users
Acceptance Criteria	SQL Injection attacks are blocked		
	Malicious code is prevented from being added to the database		
	 Users cannot initiate any form on the site without first having a profile 		
	 Users must compossible using the 	imunicate using the HTTP he UL site)	S protocol (if this is

Data Flow Diagram



Entity Relationship Diagram



Welcome To First Chance Saloon Login Register

Figure 1 - Welcome Page

Login D	etails	
email address	text	
Password	*****	
	Forgot Password	
		Log In

Figure 2- Login

Password Rese	et
New Password	:
Confirm Password *********	
	Change

Figure 3 - Password Reset

Register		
email Address	text	
Password	text	
		Next

Figure 4 - Register

Name	John Doe			
Date of Birth	1/1/2000	v		
Gender	Male	▼		
Preferred Partner Gende	r Female	▼		
City	Limerick	▼		
Seeking Age Profile (18	- 65)			
Distane I will travel	111 >			
Relationship Type (C) C	asual, Love, Friendship, Relationshi	p		
C	+ 🖸			
Casual Love	Friendship Rel	ationship	Next	Delete

Figure 5 – My Profile Page One

Profile Picture	100 × 100			
Interests /Hobbies ☑ Sport ☑ Music ☐ Outdo	oors			
Short Bio				
				Save

Figure 6 – My Profile Page Two

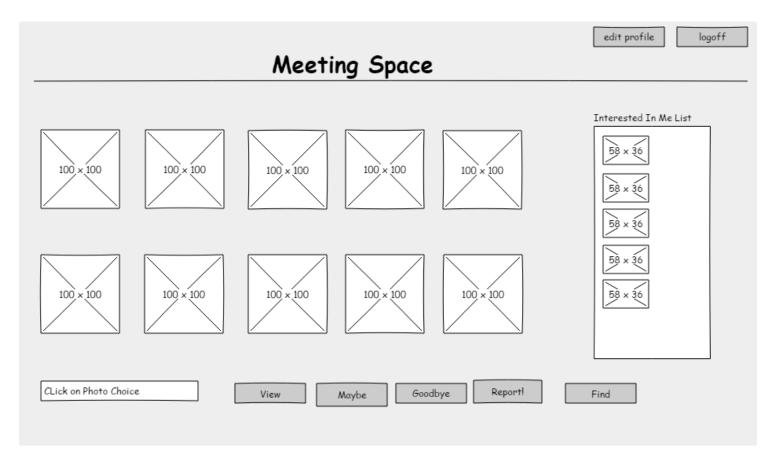


Figure 7 - Meeting Space

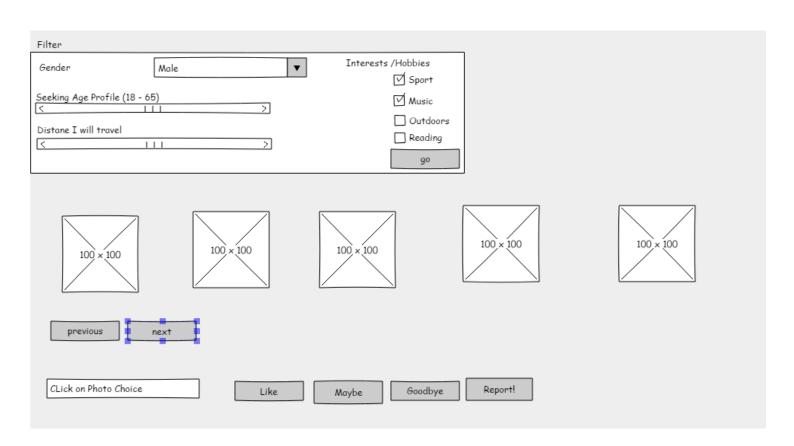


Figure 8 - Search

180 x 151 Age gap	Short BIo
Interests /Hobbies Sport Music Outdoors Reading Last Activity Date/Time	
Like Maybe Goodbye Re	eport!

Figure 9 - View Match Profile

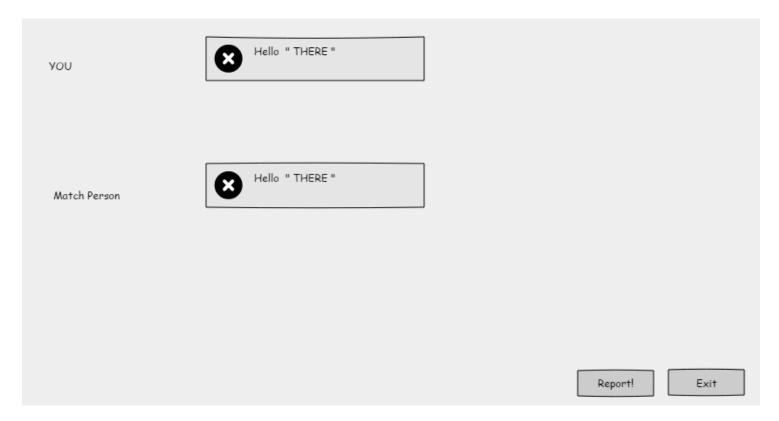


Figure 10 - Chat Line

Database Tables

Table 1 user_profile

Field	Туре	Primary	Foreign
id	int	Yes	
password_hash	Varchar(200)		
first_name	Varchar(50)		
surname	Varchar(100)		
email	Varchar(100)		
date_of_birth	date		
gender_id	bool		yes
gender_preference_id	Varchar(20)		yes
From_age	int		
To_age	int		
City_id	int		
county	Varchar(100)		
Travel_distance	int		
Relationship_type_id	int		
picture	blob		
my_bio	Varchar(1000)		
Black_listed_user	bool		
Black_listed_reason	Varchar(100)		
Black_listed_date	date		
User_status_id	int		

Table 2 match_table

Field	Туре	Primary	Foreign Key
id	int	yes	
Initiating_user_id	int		yes
Initiation_date	datetime		
Initiation_interest_level	int		
Initiation_prefered_meet_location	Varchar(100)		
Initiating_preferred_meet_datetime	datetime		
Match_status_id	int		yes
Status_date	datetime		
Reciprocating_user_id	int		yes
Reciprocating_response_date	datetime		
Reciprocating_response	Varchar(2000)		
Reciprocating_interest_level	int		

Table 3 user_communication

Field	Туре	Primary	foreign
id	int	Yes	
from_user_id	int		yes
date	datetime		
message	Varchar(150)		
status	Varchar(20)		
Status_date	date		
To_user_id	int		yes
Replying_to_communication_id	int		yes
Black_listed	bool		
Black_listed_date	datetime		
Black_listed_word_id	int		yes

Table 4 black_list_words

Field	Туре	Primary
id	int	yes
word	Varchar(100)	

Table 5 user_interests

Field	Туре	Primary
User_id	int	yes
Interest_id	int	yes

Table 6 interests

Field	Туре	Primary
id	int	yes
type	Varchar(100)	
description	Varchar(200)	

Table 7 Gender Table

Field	Туре	Primary
id	int	yes
Gender_name	Varchar(100)	

Table 8 city Table

Field	Туре	Primary
id	int	yes
city	Varchar(200)	
county	Varchar(200)	

Table 9 Relationship Type

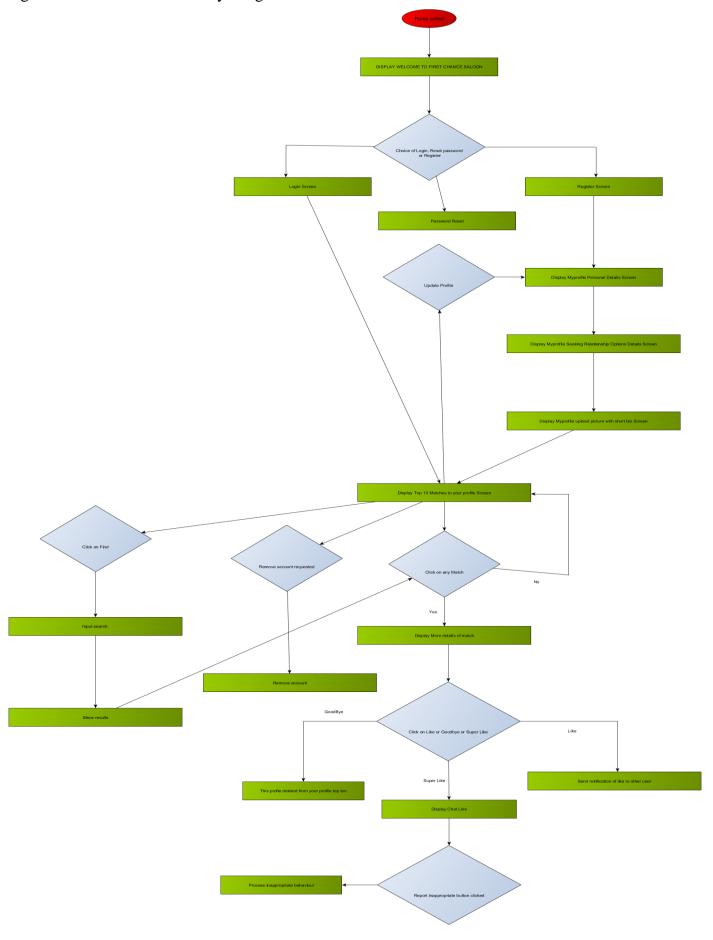
Field	Туре	Primary
id	int	yes
Relationship_type	Varchar(200)	

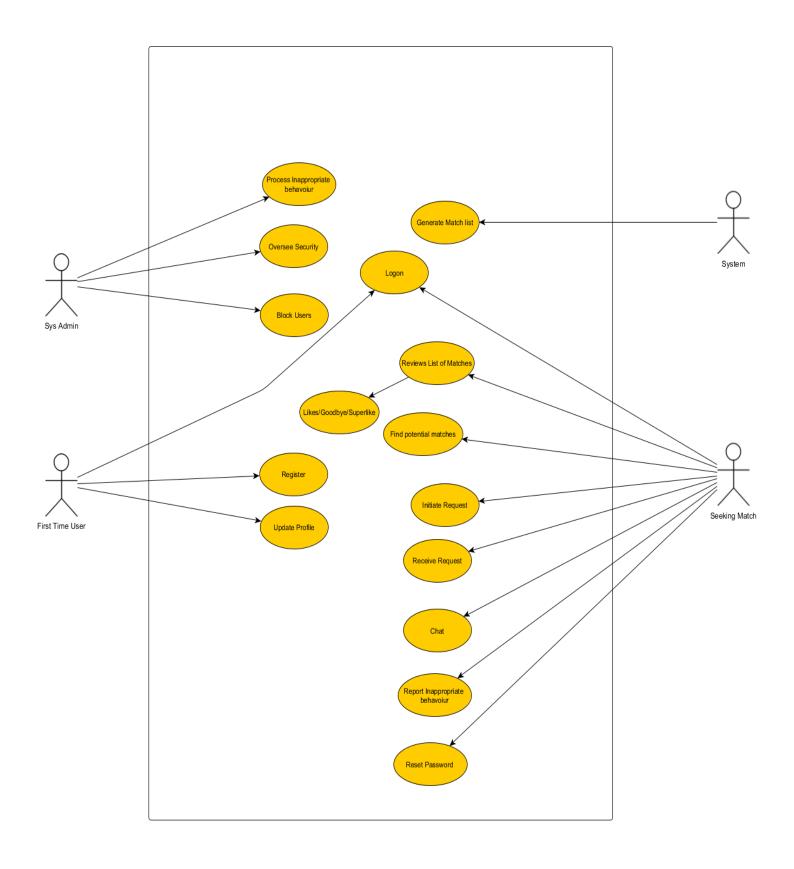
Table 10 Status

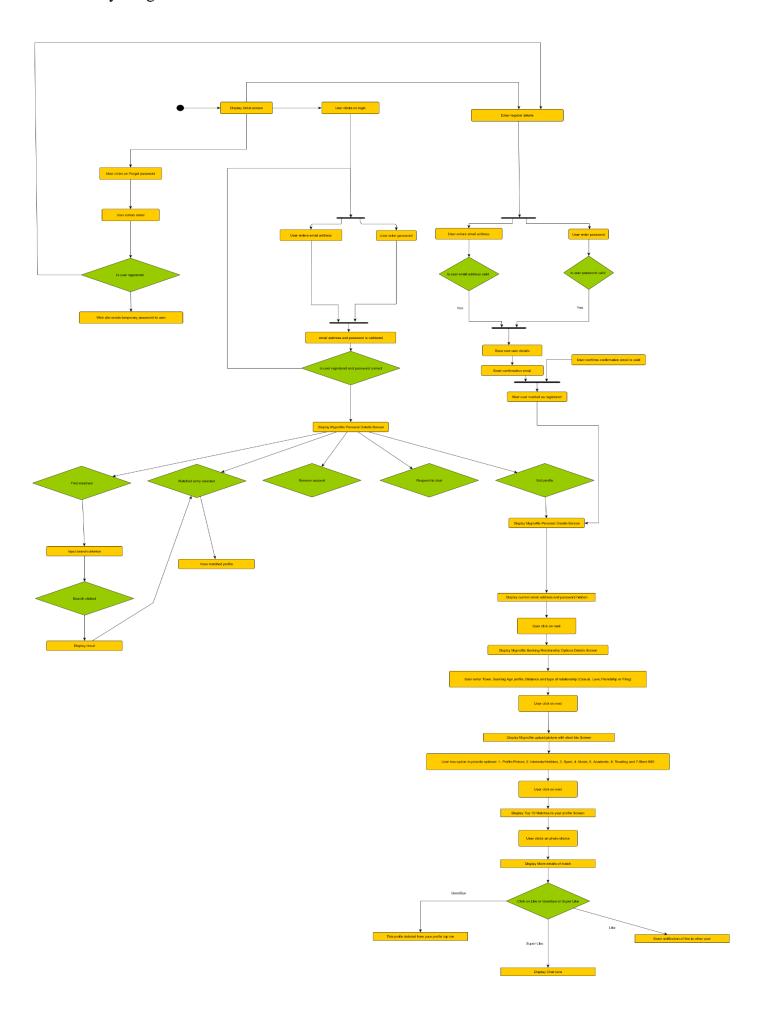
Field	Туре	Primary
id	int	yes
status	Varchar(200)	

Process List:

High level Process List Activity Diagram







Process Tables

Process #	1
Title	To be able to register a user profile
Brief Description	User can create an account
Inputs	 Name Email Date of birth Gender Preferred Partner Gender Password Location (nearest City) Photo I have the option of recording the following: Interests Hobbies Type of relationship Age profile of partner User can only create a profile if they are over the age of 18 Passwords are ranked in order of secureness Only one profile per email address supported
Detailed Description	Add user details to the User_profile Table and user_interests table
Output	An insert into user_profile, user_interest

Process #	2
Title	To be able to update their user profile
Brief Description	User can change their profile details
Inputs	 Name Email Date of birth Gender Preferred Partner Gender Location (nearest City) Photo I have the option of recording the following: Interests Hobbies Type of relationship Age profile of partner User can only create a profile if they are over the age of 18

Detailed Description	 Passwords are ranked in order of secureness Only one profile per email address supported Update user details to the User Table and user_interests
Output	An insert into user_profile, user_interest

Process #	3
Title	Logon
Brief Description	User can Logon to the system
Inputs	 Email address and password
	User enters their email and password, these are checked against the entries in the user_table and if they match then the user is allowed into the system, if not they are presented with a message After 4 logon attempts, they are blocked from using the screen
Output	Match space screen if logon successful

Process#	4
Title	Search for specific criteria
Brief Description	The web site will automatically search and find matching profiles
Inputs	The inputs are the values which the user has stored in user_interests and interest tables.
1	A broad search for potential partners completed based on profile preferences which include gender, age range and interests.
Output	Will generate an entry in the match_table with the users which match criteria.

Process #	5
Title	Users matched to my preferences
Brief Description	To be able to see a list of people who are matched to profile

Inputs	The user's selection from the findings of the matching profiles
Detailed Description	The user can view the list of photographs
Output	Photograph list

Process#	6
Title	Find users
Brief Description	User can enter criteria and get a list of pictures matching this criteria
Inputs	Gender, Age Range, Distance & Hobbies
	Based on the users inputs, the system will return a list of matching pictures and the user can then choose an action such as Like, Maybe, Goodbye or Report.
Output	A list of matching photographs

Process #	7
Title	View Profile
Brief Description	Allows user to view in more detail a potential match
Inputs	User clicks on the View Button
Detail Description	When the button is clicked, the Match screen is presented so that they can view the persons details which include interests, age, bio, etc.
Output	Match screen

Process #	8
Title	Maybe clicked
Brief Description	Allows user to indicate that they may be interested in chatting later
Inputs	User clicks on the maybe button
Detail Description	When the button is clicked, the profile selected is marked to be kept on the top match list
Output	Meeting Space screen

Process #	9
Title	Goodbye button
Brief Description	Allows user to indicate that they are not interested
Inputs	User clicks on the goodbye button
Detail Description	When the button is clicked, the profile selected is marked so that it is never presented to the user again
Output	Meeting Space screen

Process #	10
Title	List of people interested in chatting with me
Brief Description	To be able to see a list of people interested in chatting with me
Inputs	List of photographs
Detailed Description	 When a user initiates a chat, the receiving user can see in their image in a list The user can choose to view their profile and decide what to do next
Output	User has visibility to details of people interested in initiating chat

Process #	11
Title	Handle inappropriate behaviour
	Allow user to notify the system administrator of inappropriate behaviour
Input	Chat message from user
Detailed Description	Receive message from user, review the offending message and if deemed inappropriate notify the offender and if they persist with inappropriate behaviour they are blocked from accessing the system
Output	Offending user notified or blocked

Process #	12
Title	Account Deletion
Brief description	Allow user to delete their account
Inputs	User clicks on the Delete account and confirms deletion
	User details including all communications from that user are removed from the system
Output	Database entries deleted

Process #	13
Title	Password reset

Brief Description	To be able to reset my password
Inputs	User clicks on forgot my password
	Email sent to user with a link to reset the password, if user presses on the link, they are presented with a screen to allow the password change
Output	Password changed

Process #	14
Title	Logoff
Brief Description	User clicks on the Logoff button
Inputs	Button click
Detailed Description	Welcome screen is displayed and the user cannot enter the system again without entering their credentials
Output	Welcome screen

Bibliography

Swami, V., & Furnham, A. (2008). *The psychology of physical attraction*. New York, NY: Routledge/Taylor & Francis Group.