

# Software Requirements Specifications

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## 1.0 Product Overview and Summary

ConnActiv is a social network meant to connect people who participate in physical activities. Its goal is to allow users to meet other people in an area based on a mutual interest in sports, running, hiking, etc. Users will be able to subscribe to different activities based on their interest (e.g. a running “activity”). Each activity feeds into its own public stream containing posts that mention or “tag” the activity, as well as any other relevant updates. The stream is able to be seen in a user’s “Home” view if he or she is subscribed to the particular activity. This public stream is intended for users to post what activity they are doing and when. This allows other users to join them if the original user allows invitations to his or her posts.

For example, Jon posts the following message on the site’s “Running” section: “Hey, going out for a run in Oakland at 9AM.” If Jon has allowed it, Stacy may ask to join Jon in running that day.

Finally, users may give other users recommendations after they have done an activity together. This gives other users an opportunity to see if the user in question would be a suitable activity partner; however, because this could potentially lead to cyber bullying in the form of malicious reviews users are limited to one review per activity with the person in question.

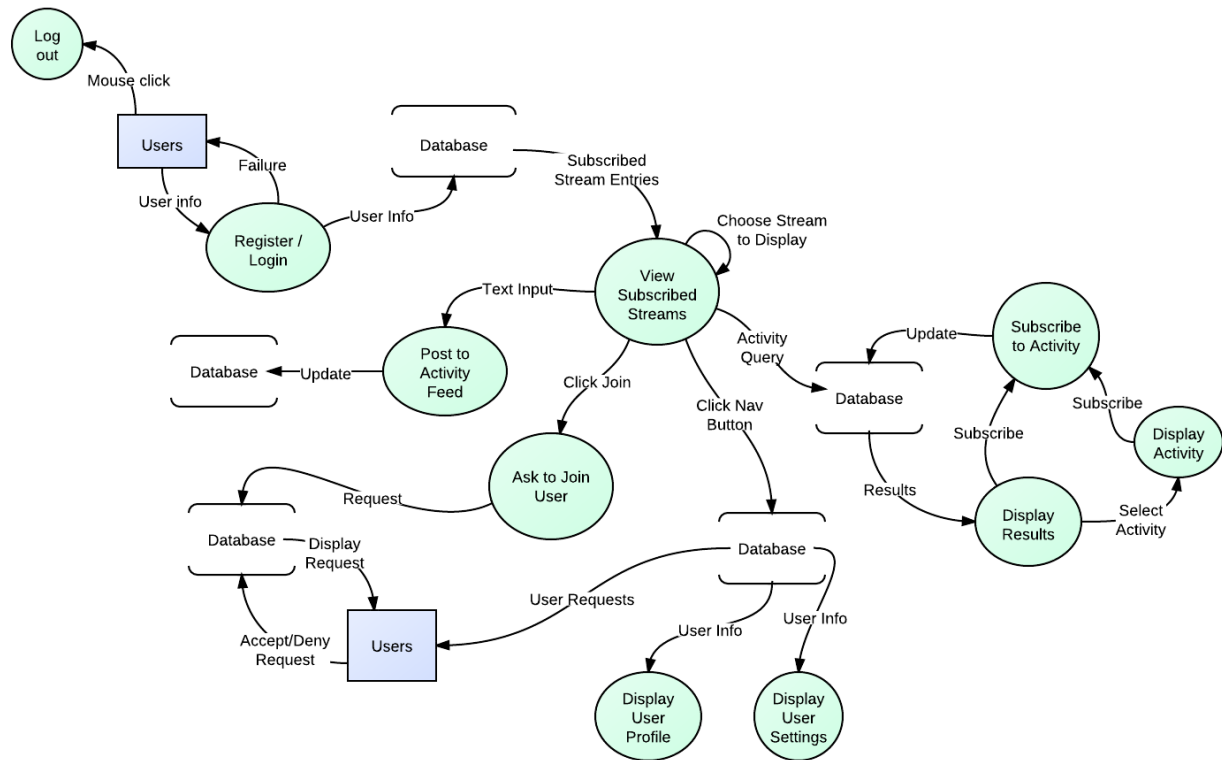
## 2.0 Information Description

### 2.1 User Interface

See 'User Interface' section in binder.

### 2.2 High-level Data Flow Diagram

See next page.



## 2.3 Data Structure Representation

### User

Attribute	Data Type	Description
<b>USER_ID</b>	INTEGER NOT NULL PK	
<b>FIRST_NAME</b>	STRING	
<b>LAST_NAME</b>	STRING	
<b>STREET</b>	STRING	
<b>CITY</b>	STRING	
<b>STATE</b>	CHAR(2)	
<b>ZIP</b>	INTEGER	
<b>PHONE</b>	CHAR(12)	
<b>INTERESTS</b>	CLOB	
<b>PROFILE_PIC</b>	STRING	
<b>EMAIL</b>	STRING	
<b>DOB</b>	DATE	
<b>GENDER</b>	CHAR(1)	

### Networks

Attribute	Data Type	Descriptions
<b>NETWORK_ID</b>	INTEGER NOT NULL PK	
<b>AREA</b>	STRING	--CITY,LOCALE
<b>ACTIVITY</b>	INTEGER	--FK INTO ACTIVITIES

### User\_Networks

Attribute	Data Type	Descriptions
<b>USER_ID</b>	INTEGER NOT NULL	
<b>NETWORK_ID</b>	INTEGER_ID	

### Activities

Attribute	Data Type	Descriptions
<b>ACTIVITY_ID</b>	INTEGER NOT NULL PK	
<b>ACTIVITY_NAME</b>	STRING NOT NULL UNIQUE	
<b>DESCRIPTION</b>	CLOB	

### User\_Activities

Attribute	Data Type	Descriptions
<b>USER_ID</b>	INTEGER NOT NULL PK	--USER_ID and ACTIVITY_ID = pk
<b>ACTIVITY_ID</b>	INTEGER NOT NULL	
<b>LOW_LEVEL</b>	INTEGER NOT NULL	
<b>HIGH_LEVEL</b>	INTEGER NOT NULL	
<b>PREFERRED</b>	INTEGER NOT NULL	
<b>OWN_LEVEL</b>	INTEGER NOT NULL	

### Favorites

Attribute	Data Type	Descriptions
<b>USER_ID</b>	INTEGER NOT NULL	
<b>NETWORK_ID</b>	INTEGER NOT NULL	

### Connactions

Attribute	Data Type	Descriptions
<b>CONNECTION_ID</b>	INTEGER NOT NULL PK	AUTO_INCREMENT
<b>POST_TIME</b>	DATE	
<b>USER_ID</b>	INT	
<b>LOCATION</b>	STRING	
<b>START_TIME</b>	DATE	
<b>MESSAGE</b>	STRING	
<b>END_TIME</b>	DATE	
<b>UNIQUE_NETWORK_ID</b>	INTEGER	
<b>IS_PRIVATE</b>	INTEGER	

### Connaction\_Attending

Attribute	Data Type	Descriptions
<b>CONNECTION_ID</b>	INTEGER NOT NULL	--CONNECTION_ID and USER_ID = pk
<b>USER_ID</b>	INTEGER NOT NULL	

### Reviews

Attribute	Data Type	Descriptions
<b>USER_ID</b>	INTEGER	

<b>FROM_USER</b>	INTEGER
<b>IS_ANONYMOUS</b>	INTEGER
<b>CONNACTION_ID</b>	INTEGER UNIQUE FK- ONLY ONE REVIEW PER CONNACTION
<b>IS_POSITIVE</b>	INTEGER
<b>REVIEW_DATE</b>	DATE
<b>REVIEW</b>	CLOB

### Requests

Attribute	Data Type	Descriptions
<b>FROM_USER</b>	INTEGER NOT NULL	
<b>TO_USER</b>	INTEGER NOT NULL	
<b>CONNACTION_ID</b>	INTEGER	
<b>MESSAGE</b>	CLOB	
<b>APPROVED</b>	INTEGER	
<b>DATE</b>	DATE	
<b>HIDDEN_FOR_FROM</b>	INTEGER	
<b>HIDDEN_FOR_TO</b>	INTEGER	

### Friends

Attribute	Data Type	Descriptions
<b>USER_ID</b>	INTEGER NOT NULL	
<b>FRIEND_ID</b>	INTEGER NOT NULL	

### Messages

Attribute	Data Type	Descriptions
<b>FROM_USER</b>	INTEGER NOT NULL	
<b>TO_USER</b>	INTEGER NOT NULL	
<b>SUBJECT</b>	STRING	
<b>BODY</b>	CLOB	
<b>DATE</b>	DATE	



## Events

Attribute	Data Type	Descriptions
EVENT_ID	INTEGER NOT NULL	
USER_ID	INTEGER	
NAME	STRING	
UNIQUE_NETWORK_ID	INTEGER	
MESSAGE	STRING	
START	DATE	
END	DATE	
LOCATION	STRING	
RECURRENCE	STRING	
APPROVED	INTEGER	
REQUEST_DATE	DATE	

## Event\_Attendees

Attribute	Data Type	Descriptions
EVENT_ID	INTEGER NOT NULL	
USER_ID	INTEGER NOT NULL	

## 2.4 Data Elements Dictionary

Elements	Description
USER_ID	Unique User ID
FIRST_NAME	User first name
LAST_NAME	User last name
STREET	User street address
CITY	User city
STATE	User state
ZIP	User zip
PHONE	User phone number
INTERESTS	Where the user's interests will be stored
PROFILE_PIC	Integer into pictures table
NETWORK_ID	Integer uniquely identifying the network

<b>AREA</b>	Network area locale
<b>ACTIVITY_ID</b>	ID Number into activity table
<b>ACTIVITY_NAME</b>	Name of an activity
<b>DESCRIPTION</b>	Description of the activity
<b>LOW_LEVEL</b>	Low skill level that a user will accept
<b>HIGH_LEVEL</b>	High skill level that a user will accept
<b>CONNECTION_ID</b>	Unique ID number identifying a connection
<b>LOCATION</b>	Location that a connection will take place
<b>START_TIME</b>	Date/Time that a connection will start
<b>END_TIME</b>	Date/Time that a connection will end
<b>TH_U/D</b>	Thumbs up or down on a recommendation
<b>REVIEW_DATE</b>	Date the recommendation was submitted
<b>REVIEW</b>	Comments on the recommendations
<b>COMMENT_ID</b>	Unique ID that maps to comments table
<b>FROM_USER</b>	User ID that sent comment/request
<b>TO_USER</b>	User ID that receives comment/request
<b>MESSAGE</b>	Message that is included with requests
<b>FRIEND_ID</b>	User ID of a user's friends
<b>SUBJECT</b>	Subject of a message
<b>BODY</b>	Body of a message
<b>DATE</b>	Date message was sent
<b>SECURITY_TYPE</b>	Level of security a user wishes to have on their profile
<b>PICTURE_ID</b>	Unique ID given to a picture a user uploads
<b>PICTURE_LINK</b>	File path to the picture
<b>COMMENT</b>	Text that is the comment a user leaves
<b>COMMENT_DATE</b>	Date a comment was left
<b>SUBSCRIPTION_ID</b>	Unique ID that identifies a user's subscription
<b>RECURRENCE</b>	Date interval an event may recur at

## 3.0 Functional Description

### 3.1 Functions

#### IC Card

IC Name: unsubscribe

Description: Unsubscribe the user from an activity

Interaction Pattern:



By Myself with Interaction

Time Critical Condition: None

Name of Other IC: Database

Message to Other IC: delete activity id from subscription list

Other IC's Task: delete activity id from subscription list

Card 1 of 1 (If necessary please use several IC cards to describe an IC)

#### IC Card

IC Name: post\_activity

Description: User types a String status update. Tags the post based on location/network, activity so that it shows up in appropriate news feeds. Options to make private/public. Options to accept/preview default values for the items tagged or override by specifying o

Interaction Pattern:



By Myself with Interaction

Time Critical Condition: None

Name of Other IC: Database

Message to Other IC: write info

Other IC's Task: write info received

Card 1 of 1 (If necessary please use several IC cards to describe an IC)

#### IC Card

IC Name: ask\_to\_join

Description: Upon seeing an activity in his news feed that is marked as "open," a user can join the event--ie ask to tag along/respond to the status. If the poster of the status accepts the tag along request (is this a good name for it? Perhaps should be discussed),

Interaction Pattern:



Quiet State

Time Critical Condition: None

Name of Other IC: Database

Message to Other IC: Write request

Other IC's Task: Write request

Card 1 of 1 (If necessary please use several IC cards to describe an IC)

## IC Card

IC Name: add\_to\_favorites

Description: A user subscribed to a person/activity/network/group also has the option to "favorite" it.  
Favorited items will show up in a more visible location (ie sidebar) for the user.

Interaction Pattern:



By Myself with Interaction

Time Critical Condition: None

Name of Other IC: Database

Message to Other IC: Add person/activity/network/group to a favorites table.

Other IC's Task: Write person/activity/network/group to a favorites table.

Card 1 of 1 (If necessary please use several IC cards to describe an IC)

## IC Card

IC Name: subscribe

Description: If a user comes across the profile of a person/activity/network/group page and he wants to have the person/activity/network/group's posts/updates appear in his news feed, the user can subscribe to the feed of that person/activity/network/group by clicking

Interaction Pattern:



By Myself with Interaction

Time Critical Condition: None

Name of Other IC: Database

Message to Other IC: write activity id to subscription list

Other IC's Task: write activity id to subscription list

Card 1 of 1 (If necessary please use several IC cards to describe an IC)

## IC Card

IC Name: register\_user

Description: Take user-inputted username (String) and password (String) and check against entries in the database. Side note: Ideally, for security, the passwords will need to be salted (can be backburned).

Interaction Pattern:



By Myself with Interaction

Time Critical Condition: None

Name of Other IC: Database

Message to Other IC: Store username, encrypted password

Other IC's Task: Store info

Card 1 of 1 (If necessary please use several IC cards to describe an IC)

## IC Card

IC Name: search

Description: Ability to search for member profiles

Interaction Pattern:



By Myself no Interaction

Time Critical Condition: none

Name of Other IC: none

Message to Other IC: none

Other IC's Task: none

Card 1 of 1 (If necessary please use several IC cards to describe an IC)

## IC Card

IC Name: news\_feed

Description: Displays the news feed information

Interaction Pattern:



By Myself no Interaction

Time Critical Condition: none

Name of Other IC: none

Message to Other IC: none

Other IC's Task: none

Card 1 of 1 (If necessary please use several IC cards to describe an IC)

## IC Card

IC Name: secure\_login

Description: Allow users to securely log in to profile

Interaction Pattern:



By Myself no Interaction

Time Critical Condition: none

Name of Other IC: User Profile

Message to Other IC: Requests login information

Other IC's Task: Return information

Card 1 of 1 (If necessary please use several IC cards to describe an IC)

### IC Card

IC Name: user\_profile1

Description: A profile that keeps all of the important information for a user  
Interaction Pattern:



Mixed

Time Critical Condition: none  
Name of Other IC: market  
Message to Other IC: Return requested data  
Other IC's Task: Processes requested data  
Card 1 of 3 (If necessary please use several IC cards to describe an IC)

### IC Card

IC Name: user\_profile2

Description: A profile that keeps all of the important information for a user  
Interaction Pattern:



By Myself no Interaction

Time Critical Condition: none  
Name of Other IC: secure\_login  
Message to Other IC: Return requested data  
Other IC's Task: Processes requested data  
Card 2 of 3 (If necessary please use several IC cards to describe an IC)

### IC Card

IC Name: user\_profile3

Description: A profile that keeps all of the important information for a user  
Interaction Pattern:



By Others no Interaction

Time Critical Condition: none  
Name of Other IC: privatize\_profile  
Message to Other IC: none  
Other IC's Task: none  
Card 3 of 3 (If necessary please use several IC cards to describe an IC)

### IC Card

IC Name: recommend

Description: A user can review a person/group one time per activity completed together (security measure against spam attacks). Thumbs up/thumbs down option on person/group profile with the option to add additional details

Interaction Pattern:



By Myself with Interaction

Time Critical Condition: None

Name of Other IC: Database

Message to Other IC: put recommendation into database

Other IC's Task: record recommendation

Card 1 of 1 (If necessary please use several IC cards to describe an IC)

### IC Card

IC Name: view\_recommendations

Description: View recommendations made by the user

Interaction Pattern:



Quiet State

Time Critical Condition: None

Name of Other IC: Database

Message to Other IC: Get recommendations

Other IC's Task: Retrieve recommendations

Card 1 of 1 (If necessary please use several IC cards to describe an IC)

## 3.2 Processing Narrative

Function Name	Details
<b>login</b>	Allow the user to sign into his/her existing account by inputting a string for his/her username and the corresponding password string, hidden as a series of asterisks or dots, and then submitting the information. The user input is passed into the database and checked first to determine if the username is an existing entry (if not, returns false) and then checks if the inputted password matches the stored password for the user. Upon failure, the user is asked to retry his/her credentials. Upon success, the user is logged in and granted access to

	his/her Home page.
<b>logout</b>	Allows the user to exit his/her current session.
<b>sign_up</b>	<p>Allows an individual to register for an account. First, the user submits his/her preferred username (string), which is then sent to the Users table in the database to check for uniqueness. On failure, the user is notified that the username is already taken and asked to select another one. On success, the user is prompted to choose a password that is between six and fifteen characters in length and includes at least one numeric character. The user is also then prompted for additional details:</p> <ul style="list-style-type: none"> <li>• <i>Primary email address</i> (string) – This will be used to confirm the registration as the final step.</li> <li>• <i>Real name</i> (string) - The user can choose to use this as his/her public display name within the site or to use his/her selected username, but the real name must remain in the database as a security measure. The user's real name is revealed to connactions (those individuals with whom he/she meets up for activities) to add a measure of security.</li> <li>• <i>Primary network</i> (string) – The user can select this from dropdown menu of existing networks (populated from the database), with the option to add a network if his/hers is not in the list. The user can choose whether or not to display this information publicly.</li> <li>• <i>Gender</i> (character ["m" or "f"]) – The user can choose whether</li> </ul>



or not to display this information publicly.

Once a user has supplied all the information up to this point, he/she is considered “registered,” although supplementary information is required to make status updates and collect news feeds. The user may complete these details when he/she first registers or may elect to return to fill in supplemental details later, but for ease of use (ie. in order to enable default values to appear in status updates), the user must supply the following for *each activity* he/she wishes to post about:

- *My skill level – low* (int) – The lower bound of the range for the user’s best approximation of his/her own abilities for the activity in question.
- *My skill level – high* (int) – The upper bound of the range for the user’s best approximation of his/her own abilities for the activity in question.
- *Preferred skill level – low* (int) – The lower bound of the range of skill levels the user prefers to interact with.
- *Preferred skill level – high* (int) – The upper bound of the range of skill levels the user prefers to interact with.
- *Accepted skill level – low* (int) – The lower bound of the range

of skill levels the user will accept interacting with.

- *Accepted skill level – high* (int) – The upper bound of the range of skill levels the user will accept interacting with.

Once these details are filled in for an activity, when the user goes to create a post involving it, the values for skill levels are autocompleted by default, although the user may elect to override them for any instance.

#### **subscribe**

Allows a user to receive all updates and activity posts from any activity, network, or group he/she chooses. The user then will see these updates in his/her Home news feed.

#### **unsubscribe**

Allows a user to stop receiving updates and activity posts from any activity, network, or group to which he/she was previously subscribed.

#### **approve**

A user can review a person or group *one time* per activity completed together. (The limit is a security measure against malicious spam attacks.) At a minimum, a user may recommend the connection in the form of a thumbs up, which then simply increments the corresponding user/group's recommendations (int) in the database. Thumbs up/down are displayed on the user's profile directly underneath the profile picture so that it is clearly visible. At a more detailed level, a user wishing to recommend a connection has the option to provide information beyond a simple thumbs up/down—a user can input a supplemental description or critique that is then attached to the connection in the database. The reviewing user has the option to post the critique anonymously.

#### **disapprove**

Similar to the *approve* function, a user may disapprove of the connection in the form of a thumbs down, which then simply

increments the corresponding user/group's disapprovals (int) in the database. Thumbs up/down are displayed on the user's profile directly underneath the profile picture so that it is clearly visible. The reviewing user may provide supplemental details/criticisms and he/she has the option to remain anonymous.

A user may type an activity or status post (string) to be displayed on his/her profile. The post will also be visible in the news feeds of his/her subscribers. The user may tag the post based on the location or *network* it concerns so that it displays in the appropriate subscriber news feeds. Additionally, the user may *tag* the post based on the activity involved. When he/she tags a particular activity, the skill levels he/she specified during registration for the activity will appear in the status, although these may be overridden for any instance (or edited under Settings). A user also can make the post *private* or *public* so that it is limited to particular audiences (Connections, Buddies, or Networks).

#### **post\_an\_activity**

The user may also specify that the post is a *recurring* activity or even a *lesson*. Finally, a user may mark the post as "open" or "closed." (Open activity posts mean that the user is looking for or is accepting partners/joiners.)

Example of an activity post:

*Clark Kent: "Anyone want to play squash tomorrow at 9pm at the Pete?"*

*Location: The Pete (Pittsburgh)*

*I am a level 5-6 looking for levels 4-8, accepting levels 4-9.*

*This activity is open!*

<b>ask_to_join</b>	<p>Upon viewing a desirable activity in his/her news feed that is marked “open,” a user may ask to join the activity by responding to the status. The poster of the status has the option to accept the join request; if he/she does accept, the users then become “connected” and have “connaction” (more than “limited” but less than “buddy”) access to each other’s profiles and can message one another to discuss and finalize the details of the meet-up.</p>
<b>view_news_feed</b>	<p>Based on the people/networks/groups to which he/she subscribes, the most recent activity updates are drawn from relevant databases and are displayed in his/her Home section. All subscription updates are grouped into the “All” tab and then are also individually sorted in corresponding tabs.</p>
<b>add_to_favorites</b>	<p>A user who subscribes to a person/network/group also has the option to favorite it. Favorited items will show up in a more visible location on the user’s Home page and Profile – directly under the user’s profile image and name in the sidebar.</p>
<b>view_calendar</b>	<p>A user can view a calendar that features dated activities for all of his/her subscriptions. It is sortable for each tag so the user may select and deselect what types of events are displays</p>

### 3.3 Design Constraints

Function Name	Details
<b>login</b>	Requires string input for both username and password. Before passing to the database, both inputs are stripped and tested to prevent SQL injections.
<b>logout</b>	No design constraints
<b>sign_up</b>	<p>The username and password must be strings, with the password being between six and fifteen characters in length and containing at least one numeric character. Username and password must not contain special characters other than underscores.</p> <p>Requirements for other necessary details:</p> <ul style="list-style-type: none"> <li>• <i>Primary email address</i> (string) – Must be valid; must contain @ symbol and '.' symbol.</li> <li>• <i>Real name</i> (string) – Must not contain special characters.</li> <li>• <i>Primary network</i> (string) – If not already in the database, the user must input his/her preferred network. Must not contain special characters.</li> <li>• <i>Gender</i> – Must be a single character ["m" or "f"].</li> </ul> <p>Requirements for other supplemental details:</p> <ul style="list-style-type: none"> <li>• <i>My skill level – low</i> (int) – Must be an integer.</li> </ul>

- *My skill level – high* (int) – Must be an integer than is  $\geq$  the lower skill level.
- *Preferred skill level – low* (int) – Must be an integer.
- *Preferred skill level – high* (int) – Must be an integer than is  $\geq$  the lower skill level.
- *Accepted skill level – low* (int) – Must be an integer.
- *Accepted skill level – high* (int) – Must be an integer than is  $\geq$  the lower skill level.

#### **subscribe**

A user cannot subscribe to him/herself. A user cannot subscribe to anything to which he/she is already subscribed.

#### **unsubscribe**

A user cannot unsubscribe from any person/group/network to which he/she is not already subscribed.

#### **approve**

A user can review a person/group exactly *one time* per activity completed together. They must have participated in an activity together.

#### **disapprove**

A user can review a person/group exactly *one time* per activity completed together. They must have participated in an activity together.

#### **post\_an\_activity**

Requires string input

#### **ask\_to\_join**

Requires that the corresponding activity is “open” to joiners.

#### **view\_news\_feed**

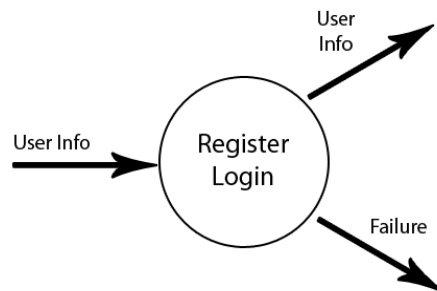
No design constraints.

#### **add\_to\_favorites**

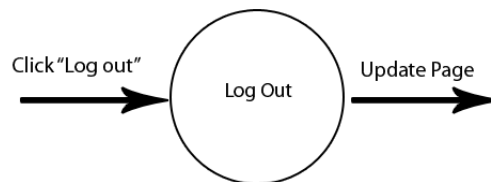
Requires that the user be subscribed to the person/network/group he/she wishes to favorite.

**view\_calendar** No design constraints.

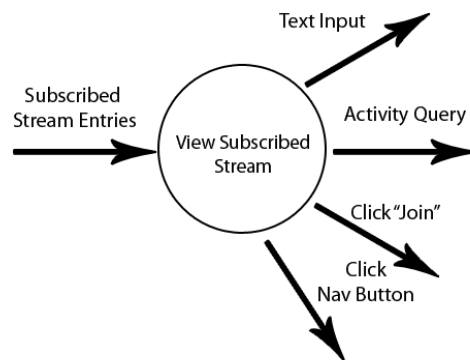
### 3.4 Detailed Data Flow Diagrams



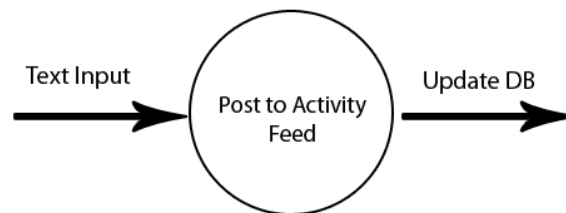
Register / Login



Log out



View Subscribed Stream



Post to Activity Feed

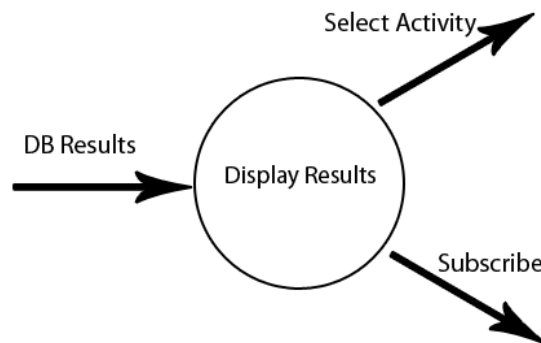


Ask to Join User

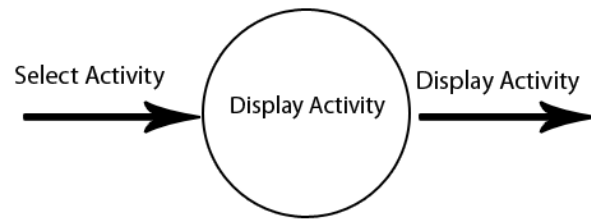




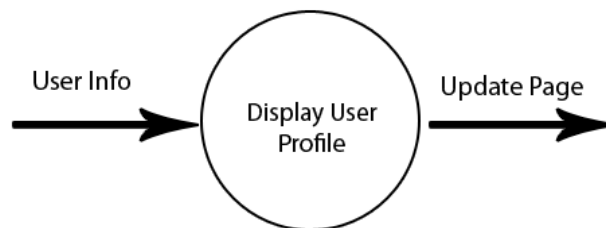
Subscribe to Activity



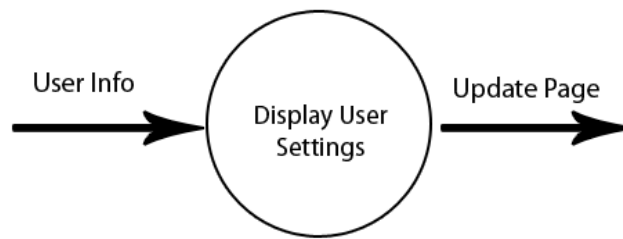
Display Results



Display Activity



Display User Profile



### Display User Settings

## 4.0 Performance Requirements

- Considering each user will have many entries in each supporting table, database storage will be our main performance hurdle. The amount of space that we have for database storage will dictate the number of users that our system can handle.
- The processing speed of our server will dictate the number of concurrent users that we can handle at any given time.
- Our system should initially be able to handle up to 1,000 user profiles and subsequent table entries according to the user's site interaction in the database with up to 100 concurrent users.
- The system should be able to process up to five database queries and display the dynamic page content within five seconds.
- There shouldn't be any issues with storing dynamic information in the database since inserts are rather inexpensive and should happen one at a time.
  - No action or task should take more than five seconds to complete.

## 5.0 Exception Conditions

User side:

### Account creation:

Exception	Handling
User enters an existing account name	Inform user the name is taken
Password is less than 6 characters	Inform user the password is too short

### Account logging in:

Exception	Handling
User enters the wrong password	Five chances before a temp lock is issued to prevent account hijacking
User cannot remember password	Email is sent to the registered account with a temporary password

### Activities:

Exception	Handling
User's wants to list an activity not supported	User selects other and fills in a field This can be later added to our system

Server side:

All system handle exceptions will comply with W3's RFC2616 HTTP status code standards. This includes returning a 500 error to the client when a system encounters an undefined exception.

## 6.0 Implementation Priorities

Implementation priorities will follow the schedule outlined in the software plan. The implementation methodology will follow the waterfall model that will allow for a

systematic approach to materializing the designs. In each step, the following step is carefully planned.

Initially, the team will implement the user interface using HTML and CSS followed by the database communication and interaction mechanisms by using PHP for the scripting language and MySQL for databases. If time permits, we will implement an Android application for mobile phones. This will be done as a separate interface after the core of the project is functional.

- Outline of the implementation priorities:
- User Interface Prototype
- User Interface Core Functionality
- PHP Scripts
- Android Application, if time permits
- Deployment

## 7.0 Foreseeable Modifications and Enhancement

### **Modifications/Enhancements – User side**

- **Increase Activities**
  - Activities are currently limited to physical (sport-like) activities, but this could spread to anything.
- **Add Medal Achievements**
  - As users do more activities, they will start to unlock different medals (Gold, Silver, and Bronze).

### **Modifications/Enhancements – System side**

- **Advanced Code: Make site even easier to navigate**
  - Auto complete fields.
  - AJAX – Convert functions to asynchronous ones.
- **Optimize Code: If time permits, ensure code is as efficient as possible**
  - MySQL, PHP, CSS, jQuery, HTML.

## 8.0 Acceptance Criteria

Nightly releases of the software will be verified using unit testing or a similar automated test suite.

List of user interface acceptance tests that will be performed:

- End-user usability surveys with feedback forms
- Usability heuristics tests
- Usability specification compliance
- Unit tests
- Compliance to this specification document

List of the integrity tests that will be performed:

- Unit tests
- Compliance to this specification document

## 9.0 Sources of Information

- GitHub [ <http://github.com> ] – The manual pages located on GitHub for our version control system
- Android SDK [ <http://developer.android.com> ] – Android SDK information for the Android app
- PHP Manual [ <http://php.net/manual/en/index.php> ] – PHP manual pages which will be reference during PHP development
- MySQL Manual [ <http://php.net/manual/en/book.mysql.php> ] – MySQL manual which will be referenced for database interaction

- JSON Manual [ <http://php.net/manual/en/book.json.php> ] – JSON manual which will be referenced for server-client database communication
- PHPMyAdmin [ [http://phpmyadmin.net/home\\_page/index.php](http://phpmyadmin.net/home_page/index.php) ] – Information about the database management system we will be using to create initial database requirements

## 10.0 Revision History

Person	Date Modified	Section	Description
Vince	9/22	1	First draft
Rob	10/3	2.1	First draft
Ray	10/3	3.1	First draft
Dave	10/5	2.3,2.4	First draft
Vince	10/5	2.1	Added Calendar and proofread
Kim	10/5	3.2,3.3	First draft
Vince	10/6	Entire Doc	Assembled all pieces
Ray	10/18	6, 8	First draft
Dave	10/18	5, 9	First draft
Vince	10/19	3.4	First draft
Dave	10/19	4, 9	First draft
Vince	10/19	Entire Doc	Assembled and proofread all pieces
Vince	12/10	Entire Doc	Removed diagrams and fixed database tables to reflect changes