

Twitter Implementation

Functional Specification

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I Overview

This Twitter is a service to allow individuals to communicate with those they are interconnected with via short blasts of text. Twitter allows users to stay updated on the affairs of family, friends, companies, organizations, and celebrities by “following” them.

This specification is not complete. The data structures required for the implementation will be discussed, and decided upon elsewhere and at another time.

II Scenarios

Scenario A: Mike

Mike is a 20 year old college student aspiring to be a DJ. He loves listening to his favorite electronic artists Zedd and Porter Robinson and is always looking for updates on their new songs and tour dates. He decides to sign up for Twitter in order to follow them and other artists so he can get the latest information directly from the source. Just hours after creating his username "DJ Mikey Mike," he sees that Zedd has just Tweeted his new College Tour dates and is coming to one of his friends schools nearby a couple weeks from now. Luckily, he can make a Tweet to all of his followers asking if anyone else is going so they can make plans.

Scenario B: Frank

Frank is a high school student who has not yet gotten into the social networking groove. His friends at school have finally convinced him to try twitter. When he finally makes it home from a long day at school he first has to finish up any homework that he was unable to finish during class that day. Once that annoyance has been completed he sits down at his computer and searches the internet for the "twitter" that his friends have been talking about. Once he finds the website he locates the create account area and gives himself the user name of Frankie17, the number jersey he always tries to get at the start of each season. Once he has his account made he searches for the accounts of his friends so that he can follow what they are saying, one by one he finds all of them and selects the follow button. Now that he has followed his friends he decides to make his very first post so that once his friends follow him they will have something to read. he locates the create post button and types out a simple message, "well i have finally joined the world of twitter, hello all". With all of this now completed he leaves his computer and moves over to the television, and spends the rest of his evening watching tv.

Scenario C: Joe

Joe is the head of the marketing department for a newly opened bar. The owner of the bar has recently had a meeting with the marketing department and has informed them he wanted them to come up with new ideas to market their bar. During the meeting Joe came up with the idea that they should start a Twitter for the bar. He suggested that they could promote the bar through the Twitter account. The owner liked the idea and suggested that Joe creates the account and informs his department on how they plan on using the Twitter. The next day Joe had

a meeting with his department to discuss how they plan on using the Twitter. They decided that they would tweet about all the special events that the bar will hold. For example, they might tweet that they will be having karaoke Thursdays. Also, they will use the twitter to inform their customers about the different bands that will be playing on different nights. Also, he will hold contests on the Twitter. For example they will have their followers tweet at them their favorite drink, that they currently don't serve and the one that is retweeted the most will then be served at the bar. Also, they will have similar contests for different themed nights. Joe told the owner of all the ways that will use the Twitter and the owner agreed that all of his ideas as excellent and will definitely help to promote the bar.

Scenario D: Bob

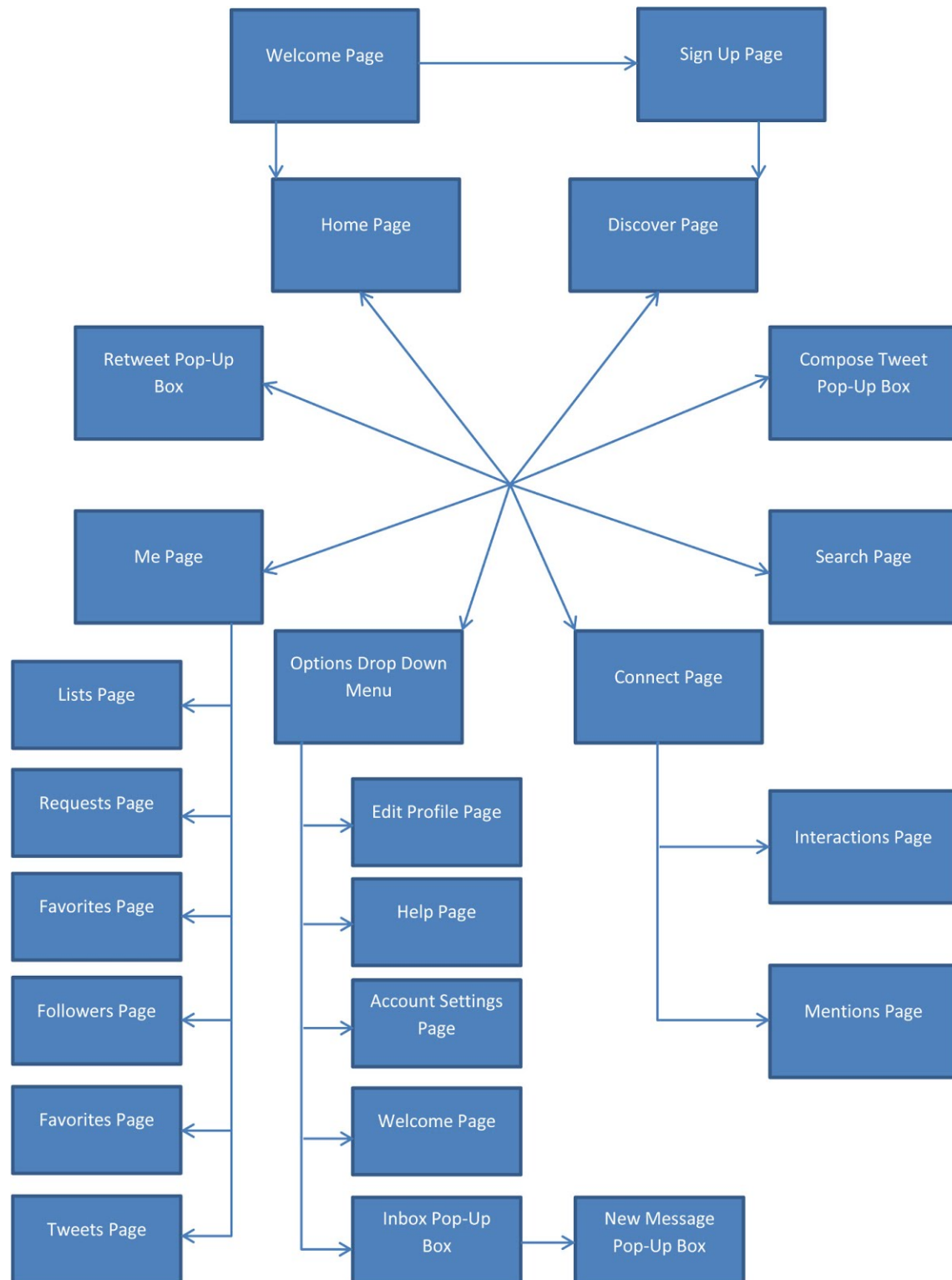
Bob is a hard working businessman for a consulting company that bids for jobs against other companies. In order to be successful at his job, Bob needs to have connections in other companies so that he can bring in more jobs. He travels to many conferences and events to meet new people and remind people that he and his company are actively working on many successful projects. However, he can only be in one place at a time and needs more ways to keep himself in the public eye. So Bob creates a Twitter account which he can give to the people he meets. He uses his Twitter account to stay active in his work community even when he can't make all the events. By actively tweeting with his connections and promoting relative topics, Bob can learn about new bids he might have missed otherwise.

III Non-Goals

This implementation of Twitter will not include the following features:

- A display of currently trending topics
- Recommendations of who to follow
- Location finder
- Tweets sent from a mobile device
- Tweets with video included
- Keyboard shortcuts
- multiple language compatibility

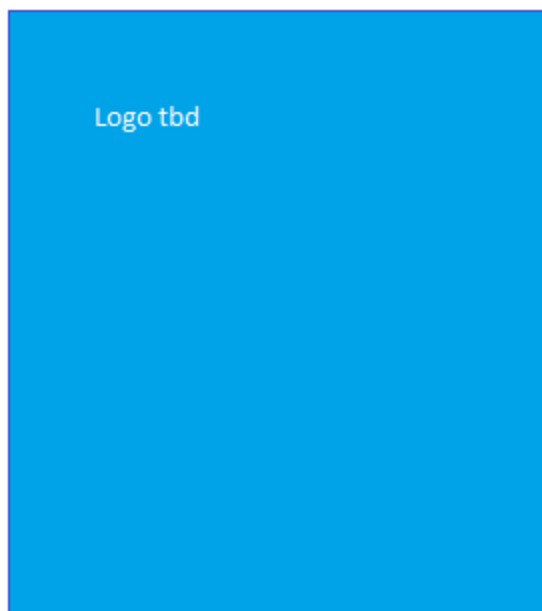
IV Flowchart



V Screen-by-Screen

Welcome Page

This is a very simple and clean looking page. There is a large symbol (the logo for the application) dominating the majority of the page. Over to the right of the logo are two boxes, one for returning users to sign into their accounts and another one for new users to begin the process of creating an account. The sign in box when given the proper values will take you to the homepage, while the new user box when selected will take you to the signup page. All characters in the boxes labeled password will be converted to * to be displayed to the user to protect privacy.



username
password
Sign in

New here?	
Name	
Email	
Password	
Sign up	

Signup page

This page performs a very specific purpose, it allows for the creation of new accounts on the application. It includes form boxes for the users name, email address, password, password confirmation and their desired username, the final aspect of this page is the button at the bottom which will submit the forms and sign up the user. this page must also check that the password entered in both sections match, and must search the database to make sure that the username selected does not already exist elsewhere.

Name:

Email:

Password:

Confirm Password


UserName

Create Account

Home Page

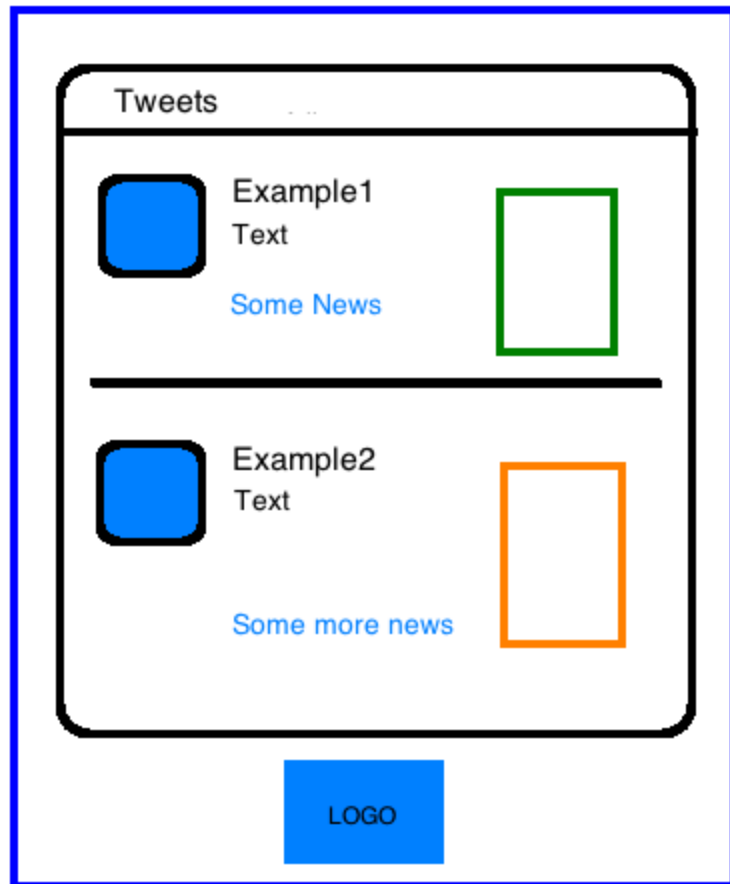
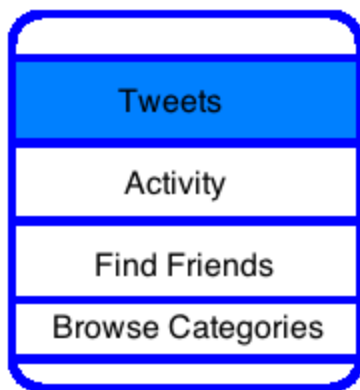
This is the user's main page. It is where the tweets of all the accounts that a user chose to follow are listed. The top of the page has navigation to the other main pages (Discover, Me and Connect) as well as the search, options menu and compose navigations. The page displays counts for the number of tweets a user has posted, the number of followers the user has, and the number of users following the user. The most important part of this page is the chronological list of tweets which takes up most of the page so the user can get updated.

Home	Connect	Discover	Me	<input type="text" value="Enter Search Here"/>	<input type="button" value="Search"/>	Options ▾	Compose
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 FollowsExamples <table border="1"><tr><td>Tweets</td><td>20</td></tr><tr><td>Following</td><td>31</td></tr><tr><td>Followers</td><td>2</td></tr></table>	Tweets	20	Following	31	Followers	2	<div><div>ExamplePerson13:17 pm</div><div>What is the point in pretending?</div><div><input type="button" value="Retweet"/> <input type="button" value="Reply"/></div></div> <div><div>ExamplePerson22:04 pm</div><div>Going to the Ex.Con!</div><div><input type="button" value="Retweet"/> <input type="button" value="Reply"/></div></div> <div><div>ExamplePerson110:01 am</div><div>I wish I was a real Person.</div><div><input type="button" value="Retweet"/> <input type="button" value="Reply"/></div></div>
Tweets	20						
Following	31						
Followers	2						

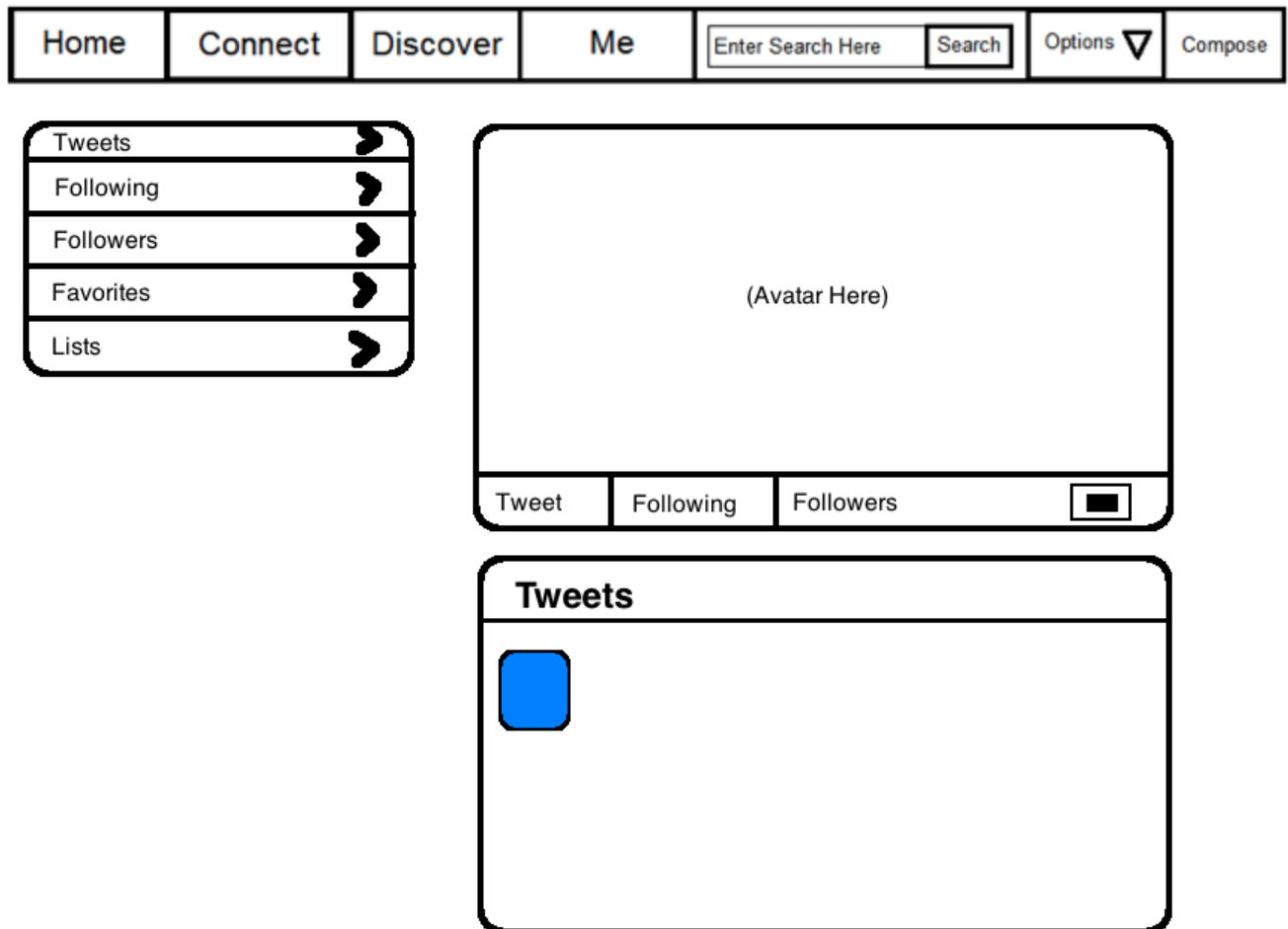
Discover Page

This page is pretty straightforward. On the left there is a table of links including “Tweets”, “Activity”, “Find Friends”, “Browse categories.” Clicking one of these opens the appropriate sub-page. This will by default open up “Tweets” which will generate a list of tweets of the latest news pertaining to the users interests.



Me Page

This shows what a user's Me page would look like. This page shows their entire profile. It has the same header as the rest of Twitter with several buttons and the search box. In the top right corner there is a large box that shows the user's avatar. Then to the left of the avatar is where the user can choose which sub category to display below the avatar box. In the example below the Tweets box is selected and shown below the avatar.



Connect Page



This shows what a user's Connect page would look like. This page shows their interactions with the rest of the Twitter community. Again, It has the same header as the rest of Twitter with several buttons and the search box. In the top left corner is the subcategories box, where the user can choose what to display to the right. In the example below the Interactions category is selected, which shows the @mentions, favorites, and follows of the user. Mentions is the other category which displays the tweets that mention you, and those that are in reply to you in the box to the right.

Home	Connect	Discover	Me	<input type="text" value="Enter Search Here"/>	<input type="button" value="Search"/>	Options ▾	Compose
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Interactions >

Mentions >

Interactions

VI New Feature

Description: ability to tweet out sound files will be added do our implementation of Twitter. These files will cause the tweet in question to display a pause button and a play button for starting and stopping a sound file.

Scenario: Frank find a song that he really likes and downloads it onto his computer. He thinks that his friends will really enjoy the song as well, so he goes into Twitter and composes a new Tweet. He uploads the sing into his tweet for all of his followers and friends to see. Frank's friend Bob sees the tweet and decided to listen to the song and see what Frank has been listening to lately. Bob presses the play button on the song that Frank Tweeted and listens to it for a little while, he decided that he doesn't like the song so he presses the pause button and stops listening to the song.