**MUNSSN Requirements Specification**

**Version 0.1**

**February\_\_, 2017**

**Project Team**

Tyler Vey

Saahil Budhrani

Mark Hewitt

Allan Collins

**Document Author(s)** (DO WE NEED THIS?)

Mark Hewitt

**l.Introduction**

The goal of this project is to create a social networking website specifically for use by students attending Memorial University. The website will provide many features found in other popular social networks as well as some features useful for students of Memorial University. The project will make use of Node.js as well as mongoDB. This document describes the requirements for this project.

**ll.Use Cases**

UC1 Create an Account

UC2 Add Friends

UC3 Suggested Friends List

UC4 Timeline

UC5 Timeline Visibility

UC6 Timeline Posting Rights

UC7 Posting Comments

UC8 Create Study Group

UC9 Lost and Found

UC10 Create Schedule

UC11 Upload Resume

UC12 Create a Poll

UC13\*

**UC1 Flow of Events for the *Create an Account* Use Case**

**1.1 Preconditions:**

User’s email must not be connected to an existing account.

**1.2 Main Flow:**

The System provides form fields for email and password as well as the option to upload a profile picture from the User’s computer. When the User submits the form the System sends an email to the address provided by the User. The User reads this email and follows an included link back to a confirmation page on the Website. The User confirms their email by clicking the confirmation button on the page.

**1.3 Subflows:**

None.

**1.4 Alternate Flows**

[E1] If the information entered into the forms does into meet the requirements the submit button will return to the signup page and display the relevant error

[E2] If the User attempts to upload a profile picture that fails to meet the profile picture requirements [TODO profile pic requirements reference] then the picture will not be uploaded and the User will be shown the relevant error.

**UC2 Flow of Events for the *Add Friends* Use Case**

**2.1 Preconditions:**

1. User must be registered [UC1].
2. The User’s friend list begins empty the first time this Use Case is run

**2.2 Main Flow:**

User navigates to another User’s page using either [TODO person search use case] or [TODO suggested friend list use case]. The User sends a friend request to the target User using the “Send Friend Request” button [S#]. The receiving User has the request appear in their News Feed and may accept or ignore [E#] the request. If accepted both Users are registered as Friends and the request is no longer shown.

**2.3 Subflows:**

[S1] After being used the “Send Request” button is disabled.

**2.4 Alternate Flows:**

[E1] If the Friend Request is ignored then it ceases to appear in the recipient’s New Feed.

**UC3 Flow of Events for the *Suggested Friends List* Use Case**

**3.1 Preconditions:**

The user is registered

**3.2 Main Flow:**

The User navigates to their Friend List page. The System displays a list of 5 Users that are related to the User [E#] [TODO reference to friend suggestion criteria]. The User may navigate to the Profile page of any of the Users shown in the list.

**3.3 Subflows:**

None

**3.4 Alternate Flows:**

[E1] If the User has no Friends, Courses, S or Programs [TODO other?] then the list is a random selection of Users.

**UC4 Flow of Events for the *Timeline* Use Case**

**4.1 Preconditions:**

*<User>* has their own homepage open and their own timeline is visible.

**4.2 Main Flow:**

The content within the timeline is sorted chronologically with the most recent at the top. If the timeline has no posts then it will be empty. Content consists of posts and *<Notifications>*. Posts contain images, messages, and video. *<Notifications>* are a short messages notifying a user of an event that appear on their timeline. Events include . Timeline options include Visibility, Posting Rights, and New Post. Options available on an individual post include Delete, Comment, and Visibility. When the *<User>* clicks the timeline option, ‘New Post’, the new post window opens up. It has an area for typing text and the following options available, Upload Video/Image, Publish, and Cancel. When the *<User>* types text, text appears. When the *<User>* Clicks Upload Video/Image a filepicker is shown. When the *<User>* selects a file from the filepicker and hits OK the file picker disappears and the selected media appears on the new post window. When the *<User>* hits publish the new post window disappears and the new post appears at the top of the user’s timeline.

**4.3 Subflows:**

[S1] *<User>* can respond to notifications by accepting or ignoring friend requests. Accepting or ignoring a friend request is a notification event and it will appear on the User’s timeline. (move to main flow or separate use case)x

[S2] *<User>* can reply to messages from other users on their timeline. (move to main flow or separate use case)x not sure if this is even a requirement.

[S3] When creating a new post the *<User>* hits the cancel button. New Post window disappears and *<User>* is returned to their timeline.

**4.4 Alternate Flows:**

[E1] <*User>* has attempted to upload an unsupported filetype or has exceeded max size limits. The system notifies the user that the file type is unsupported or that they have exceeded the max file size limit depending on the violation and they will then be given another to upload the file or to cancel the operation.

[E2] <*User>* has exceeded the max character limit for text in a post. User is unable to type anymore text and is alerted.

**UC5 Flow of Events for the *Timeline Visibility* Use Case**

**5.1 Preconditions:**

1. There are 3 *<Users>* referred to as User A, User B, and User C.
2. User A is friends with User B and User C

**5.2 Main Flow:**

The Timeline option Visibility is visible on the timeline menu bar. The available options are Only User, Everyone, Only Friends, List of Friends.

**5.3 Subflows:**

None.

**5.4 Alternate Flows:**

None.

**UC6 Flow of Events for the *Timeline Posting Rights* Use Case**

**6.1 Preconditions:**

**{EMPTY}**

**6.2 Main Flow:**

**{EMPTY}**

**6.3 Subflows:**

None.

**6.4 Alternate Flows:**

None.

**UC7 Flow of Events for the *Posting Comments* Use Case**

**7.1 Preconditions:**

User must have a valid account and a friend’s status to comment on.

**7.2 Main Flow:**.

A user can see a post from a friend or another user due to the visibility setting. User A posts a comment on User B’s status. User A’s comment can only be edited by them but the status can be deleted by User B due to hierarchy of the posting.

**7.3 Subflows:**

None.

**7.4 Alternate Flows:**

[E1] The user changes the privacy of the status while the comment is being produced and then the comment won’t be able to be posted if the privacy setting is changed before the comment is posted.

**UC8 Flow of Events for the *Create Study Group* Use Case**

**8.1 Preconditions:**

The user must be a valid member and have friends in the network.

**8.2 Main Flow:**.

Group Creator becomes the admin.The admin can invite other members to join the group and can set different levels of accessibilities for each invited member. A public group will allow any member to join instantaneously. A private group can only add members by the admin inviting them, accepting them invitation to join the group or by other members inviting them to join, if they are allowed to do so. Within the group content can be shared and posted by all the members.

**8.3 Subflows:**

None.

**8.4 Alternate Flows:**

None.

**UC9 Flow of Events for the *Lost and Found* Use Case**

**9.1 Preconditions:**

User must have found something that is lost and can be posted to help find its owner.

**9.2 Main Flow:**.

A lost item can be reported by a user by posting a picture of it with a short description and a location tag in order to show the location of the item in the lost and found section. A user can contact a poster regarding a lost item by their email, if they are friends the user has access to the poster’s phone number.

**9.3 Subflows:**

None.

**9.4 Alternate Flows:**

[E1] The lost item is claimed by someone who isn’t the actual owner or the lost item is taken and kept by the person who found it and isn’t posted to be found.

**UC10 Flow of Events for the *Create Schedule* Use Case**

**10.1 Preconditions:**

User must have a valid account.

**10.2 Main Flow:**.

The user initiates the process by navigating to the schedule section of their profile. They are asked if the want to create a new schedule for this semester. They will then be asked to create new slot and then proceed to enter a date, name and time (fill box). When complete they will submit the new information which will then be saved and be put into the schedule. The User will now have the option to enter a new slot and so on until all the desired slots have been entered and the user closes the program.

**10.3 Subflows:**

None.

**10.4 Alternate Flows:**

None.

**UC11 Flow of Events for the Upload Resume Use Case**

**11.1 Preconditions:**

User has a valid account and a resume to upload to his/her profile.

**11.2 Main Flow:**.

The user will navigate to the resume section of their profile where they will be prompted to upload a new resume. If they choose to do so they will be provided with the ability to choose a file from their computer from which they can choose their resume.

**11.3 Subflows:**

None.

**11.4 Alternate Flows:**

[E1] If the user navigates to the resume section of their profile and a resume already exists they will have the option to delete/remove the existing resume. If they choose to do so they will follow the main flow.

**UC12 Flow of Events for the *Create a Poll* Use Case**

**12.1 Preconditions:**

User has a valid account

**12.2 Main Flow:**.

The initial member will begin creating a poll, they must choose a course they are currently taking. They will fill in the information needed about the poll (name, question and answers)then the poll will be posted to that users timeline and will be visible to other members taking that course. Other members will vote on the poll or respond to it with a comment. The original member who created the poll may choose to close the poll at anytime disabling other members from commenting or voting

**12.3 Subflows:**

None.

**12.4 Alternate Flows:**

[E1] If the user attempts to make a poll about a course they are not taking they will receive an error and be brought back to the beginning of the main flow.

**UC13 Flow of Events for the *Mystery* Use Case**

**13.1 Preconditions:**

**13.2 Main Flow:**.

**13.3 Subflows:**

None.

**13.4 Alternate Flows:**

None.