

# Part I

## System and Software Design Description (SSDD): Incorporating Architectural Views and Detailed Design Criteria for Groups in a University Setting

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# Chapter 1

## Introduction

### 1.1 Identification

The software system being considered for development is referred to as Groups in a University Setting or gus. The customer providing specifications for the ethnic and religion team is the Lutheran Campus Ministry. The ultimate customer, or end-user, of the system will be student groups at the University of Idaho. This is a new project effort, so the version under development is version 0.05

### 1.2 Purpose

The purpose of the system under development is to provide a tool for the easy administration and tracking of university-style groups including but not limited to clubs and sports teams, the system will also try to increase student involvement by connecting and recognizing the involvement of users. While the system will be used by university personnel, this document is intended to be read and understood by UICS software designers and coders. This document will also be approved by Dr. Clinton Jeffery.

### 1.3 Scope

GUS is to social-networking as an intranet is to the Internet. Where other social networks distract users with non-university non-local non-face-to-face non-involvement, GUS will focus these types of functionalities to the university and local community setting to best meet the administrative and service needs of groups in a university setting. In addition to being a

group-centered student-involvement web-application.

## 1.4 Definitions, Acronyms, and Abbreviations

Term or Acronym	Definition
Alpha test	Limited release(s) to selected, outside testers
Beta test	Limited release(s) to cooperating customers wanting early access to developing systems
Final test	aka, Acceptance test, release of full functionality to customer for approval
DFD	Data Flow Diagram
SDD	Software Design Document, aka SDS, Software Design Specification
SRS	Software Requirements Specification
SSRS	System and Software Requirements Specification
GUS	Groups in a University Setting

## 1.5 References

1. [www.churchteams.com](http://www.churchteams.com)
2. [www.groupmeister.com](http://www.groupmeister.com)
3. [www.teamr.com](http://www.teamr.com)
4. [www.salesboom.com](http://www.salesboom.com)
5. [www.wikipedia.org](http://www.wikipedia.org)

## 1.6 Overview and Restrictions

This document is for limited release only to UI CS personnel working on the project.

Section 2 of this document describes the system under development from a holistic point of view. Functions, characteristics, constraints, assumptions, dependencies, and overall requirements are defined from the system-level perspective.

Section 3 of this document describes the specific requirements of the system being developed. Interfaces, features, and specific requirements are enumerated and described to a degree



sufficient for a knowledgeable designer or coder to begin crafting an architectural solution to the proposed system.

Section 4 provides the requirements traceability information for the project. Each feature of the system is indexed by the SSRS requirement number and linked to its SDD and test references.

Sections 5 and up are appendices including original information and communications used to create this document.

# Chapter 2

## Constraints and Stakeholder Concerns

### 2.1 Constraints

#### 2.1.1 Environmental Constraints

At this time, there are no reasonable Environmental Constraints native to GUS other than a working computer, electricity, and a bit of privacy.

#### 2.1.2 System Requirement Constraints

Since G.U.S. is a web-based product, all significant system requirements will be shifted away from the client-side and onto the server. All the client will need to properly utilize GUS is a modern web browser. So far, GUS proven to be compatible with:

- FireFox 3.0 (or higher)
- Internet Explorer 7.0 (or higher)
- Google Chrome (any version)
- Safari 5 (or higher)

In short, any user who's system can adequately run any of the above applications will be able to utilize GUS.

### **2.1.3 User Characteristic Constraints**

GUS carries with it the inherent danger of private data loss; just like every other online application that deals with private information. As such, any user who uses the system must be aware of the security risks associated with doing so. To ensure that our clients understand this, GUS will notify new users of these risks during registration.

# Chapter 3

## Requirements Traceability

### 3.0.4 Requirements Traceability

In the case of GUSPHP, all requirements originated from the customer, Dr. Jeffery. Though extensive discussion both with Dr. Jeffery and conversations as a team, a general set of requirements were eventually agreed upon. These requirements formed the core goals that GUS strives for.

Once a set of requirements had been agreed upon, actual implementation details were then conferred upon as a team. These details included use-case creation and division of labor. Since GUS is a web-based project, each requirement formed a different segment of functionality of the overall project. With this being the case, each team member is assigned a specific requirement. Their responsibility is to ensure that their part was completed by the end of the semester.

Development can be traced by tickets present on the GUS Trac server. Trac is an online project management tool that easily shows team progress through a project roadmap. When properly updated, the roadmap shows a detailed view of the development cycle by utilizing a ticket system. The GUSPHP team leader will add tickets - or small segments of work - for each team member. These tickets will then provide an work log for each employee, as well as reflecting progress towards a complete implementation.

**Part II**

**Systems and Software Requirements  
Specification (SSRS)  
for  
Groups in a University Setting**

# Chapter 4

## Overall Description

### 4.1 Product Perspective

Gus is an independent software system, as it does not directly integrate with a larger system. However, GUS does draw data from external sources, such as personal information databases, and needs to be integrated with a web server in order to be readily accessible.

### 4.2 Product Functions

1. Simplifying tasks to leaders of groups, such as:
  - (a) Sending notifications to group members, prospective members, former members, and interested community members (email)
  - (b) Sending information (files) to group members via email or download link
  - (c) Managing a group-wide calendar of events
    - i. track volunteers, attendees, and contributors
    - ii. suggest potentially beneficial services other groups could provide related to the event
    - iii. provide a calendar of events that includes events from other groups that members would want to attend (like marching band if half of LCM are in the marching band.)
    - iv. keeping track of who is responsible for bringing / doing what at an event
  - (d) Automatically generating:

- i. Contact information (contact sheets, phone directories)
  - ii. Website with updated contact, group, event, and customized information
  - iii. Organization charts
  - iv. Graphical relationships between groups
  - v. Fees, dues, and expenses notifications
  - vi. Event reminders
- 2. Consolidating information for members, former members, potential members (and parents) of groups:
  - (a) Common location of group information
  - (b) Searching existing groups
  - (c) Tying together existing groups (even suggesting similar groups)
  - (d) Personalized emails regarding changes/updates
  - (e) Outstanding expenses or reimbursements
  - (f) Reliable (i.e., automatically updated):
    - i. Group contact information
    - ii. Group event information
  - (g) Transcript of verified group activity (for use with service-learning classes, and proof of volunteerism for potential employers)
  - (h) Supplementing Vandal Friday with emails to prospective high school Seniors
- 3. Getting member input though: forums, project managers, surveys, and polls
- 4. Payment processing and sponsorship collection
- 5. 4. Recruitment and advertising for groups, volunteer / paid opportunities, services provided, possibly a bartering tool

### 4.3 User Characteristics

Gus should be easy for any user to understand with a brief explanation and intuitive enough for an uninitiated user to figure out by looking through the options. Basic computer use skills and a simple conceptual explanation should be enough for every day usage.

## **4.4 Constraints**

GUS must meet privacy policies as they apply to both the University of Idaho and social networking sites. GUS must be able to interface with outside database servers (such as the Center for Volunteerism's database, UI's career seeker site, common social networks, and parent groups of university groups). Member's activities and group's activities must be audited for accuracy and safety. The languages used to program GUS will be primarily, HTML, CSS, and PHP for the user interface, C++ for the interface between the user interface (which will implement security and complex business rules), and the database, and SQL for the database. The networking protocols will be TCP/IP and Open MP / MPI will be used to enhance parallel operation. The system will have personal information for over 5,000 students, so confidentiality is of the utmost importance.

## **4.5 Assumptions and Dependencies**

The software system should run like a web-app and need not be downloaded by users. It is assumed that users will be running Internet Explorer, Fire Fox, or another popular web browser. The server for the system is expected to run a UNIX operating system.

## **4.6 System Level (Non-Functional) Requirements**

### **4.6.1 Site dependencies**

GUS will require a server that can support 1,000 concurrent users. The database must store the information, interests, and activities of approximately 5,000 external users, 5,000 students and 200 groups.

### **4.6.2 Safety, security and privacy requirements**

GUS contains the personal information of over 5,000 users security should be integrated into every facet of this program. The privacy criteria for this system must reflect privacy policies that apply to the University of Idaho, and the security criteria for this system must reflect the need to secure over 5,000 users from identity theft and potential defamation of character.

### **4.6.3 Performance requirements**

1. The number of simultaneous users to be supported are: 1,000.



2. Supported information ranges from text to files to streaming video.
3. 95% of the transactions shall be processed in less than half a second.

#### **4.6.4 System and software quality**

Gus must perform all required functions, behave consistently and correctly, be easily corrected, running between 5:30 am all day to 1:30 am be easily adaptable, test-driven, and easy to use.

#### **4.6.5 Packaging and delivery requirements**

The executable system and all associated documentation (i.e., SSRS, SDD, code listing, test plan (data and results), and user manual) will be delivered to the customer via Internet download. The final, edited version of the above documents will accompany the final, accepted version of the executable system.

#### **4.6.6 Personnel-related requirements**

The system under development will require a graduate student system-level administrator to maintain the system.

#### **4.6.7 Training-related requirements**

No training materials or expectations are tied to this project other than the limited help screens built into the software and the accompanying user manual.

#### **4.6.8 Logistics-related requirements**

A server will be required to maintain the software system. The user will be required to have an Internet connection.

#### **4.6.9 Precedence and criticality of requirements**

1. Maintaining confidentiality and privacy of PII
2. This system must be reliable enough for users to not give up on it
3. All other features are less important than the first two and equally important

# Chapter 5

## Specific Requirements

### 5.1 External Interface Requirements

#### 5.1.1 Hardware Interfaces

The system will require a server and secure networking abilities.

#### 5.1.2 Software Interfaces

The system will require an interface to interact with emailing systems, databases, and authentication servers.

#### 5.1.3 User Interfaces

The system will require user interfaces for non-university users (prospective students, community members, alumni, parent groups, etc.), students, officers, and staff/faculty.

#### 5.1.4 Other Communication Interfaces

GUS will interface with the university career seeking site and social networking sites.

Table 5.1: Hardware Interfaces

Name	Source/Destination	Description	Type/range	Dependencies	Formats
HTTP Server	Dedicated Server or VPS / Client	This device is responsible for serving HTML content (and other content) to clients. Preferably Apache2.	All	Requires a server-capable machine	N/A
VPS or Dedicated Server	NA	A VPS or a Dedicated Server, preferably running a pre-configured Linux distribution such as Fedora or Ubuntu.	All	Electricity, high-speed Internet connection	N/A

Table 5.2: Software Interfaces

Name	Source/Destination	Description	Type/range	Dependencies	Formats
SQL Server	Dedicated Server or VPS / Client	Works in conjunction with HTTP server to provide data.	All	Requires a server-capable machine	N/A
PHP5	HTTP Server / Client	Provides computational power so tasks that serve HTML content via apache can be completed.	Requires a server capable of running PHP5.	Electricity, high-speed Internet connection	N/A

Table 5.3: User Interfaces

Name	Source/Destination	Description	Type/range	Dependencies	Formats
Website	HTTP Server/Client	Allows user to interact with the service	All	HTTP Server	Web
Cell phone	Cellphone	Receive text-messages	All	HTTP Server	Text

Table 5.4: Other Communication Interfaces

Name	Source/Destination	Description	Type/range	Dependencies	Formats

## **5.2 System Features**

### **5.2.1 Use Case Diagrams**

## 5.2.2 System feature: Group Files

### 5.2.3 Upload File

- **Actors:** Logged in Users
- **Goals:** User will upload a file to a group from their computer
- **Preconditions:** User is a member of the group they want to upload a file to
- **Summary:** The file uploading functionality allows users to share files with groups they are a member of. Uploaded files are stored on the server and can be viewed and downloaded by other users with sufficient permission levels.
- **Steps:**
  1. User navigates to the Upload page
  2. User clicks the browse button to bring up the file browser
  3. User selects a file from their computer to upload and clicks the Open button in the file browser
  4. User selects a group from the list of groups they are a member of using the drop-down menu on the Upload page
  5. User clicks the Upload button to upload their file
- **Alternatives:**
  - User can cancel out of process by hitting their browser's back button at any step before 5
  - User can do steps 2-4 in any order, as long as step 3 happens immediately after step 2
  - If the user tries to upload a filetype that isn't allowed, or a file that is too large, or if the user does not specify a file, they will get an error
- **Postconditions:** The file chosen by the user is uploaded to the server, and inserted into the database
- **Related use cases:** Download File, Delete File, Change File Permissions

### 5.2.4 Download File

- **Actors:** Logged in Users
- **Goals:** User will download a file from a group to their computer
- **Preconditions:** User is a member of the group they want to download a file from or user is the file's original uploader
- **Summary:** The downloading functionality allows users to download a copy of an uploaded file from the server. Users are only able to download files they have permission to view.
- **Steps:**
  1. User navigates to the Docs page
  2. User clicks the thumbnail of the file they want to download
  3. User clicks the download button
  4. User's browser downloads the file
- **Alternatives:**
  - User can cancel out of process by hitting their browser's back button at any step before 3
  - If the user tries to download a file they don't have permission to view, they will receive an error
- **Postconditions:** The file is downloaded from the server via the user's browser
- **Related use cases:** Upload File, View File Online, Delete File, Change File Permissions

### 5.2.5 View File Online

- **Actors:** Logged in Users
- **Goals:** User will view a file inside their browser rather than download it to their computer to view
- **Preconditions:** User is a member of the group that the file was uploaded to or user is the file's original uploader

- **Summary:** Users are able to view some file types online. Images and pdfs can be viewed within the user's browser rather than downloading them to the user's local machine first. A user needs the same permission to view files as they do to download files.
- **Steps:**
  1. User navigates to the Docs page
  2. User clicks the thumbnail of the file they want to view online
  3. User clicks the view button
  4. User's browser displays the file
- **Alternatives:**
  - User can cancel out of process by hitting their browser's back button at any step before 3
  - If the user tries to view a file they don't have permission to view, they will receive an error
- **Postconditions:** The file is displayed within the user's browser
- **Related use cases:** Upload File, Download File, Delete File, Change File Permissions

### 5.2.6 Delete File

- **Actors:** Group administrators, Users that have uploaded files, group officers
- **Goals:** User will delete an uploaded file from the database and server
- **Preconditions:** User has permission to manage files of the group that the file was uploaded to or user is the file's original uploader
- **Summary:** Users are able to delete files they have uploaded from the server. Group officers and administrators are able to delete any file uploaded to their group.
- **Steps:**
  1. User navigates to the Docs page
  2. User clicks the thumbnail of the file they want to view online
  3. User clicks the delete button

4. Server deletes the file and the user is redirected to the Docs page

- **Alternatives:**

- User can cancel out of process by hitting their browser's back button at any step before 3
- If the user tries to delete a file and they don't have sufficient permissions within the group or as the file uploader, they will receive an error

- **Postconditions:** The file is deleted from the server

- **Related use cases:** Upload File, Download File, View File Online, Change File Permissions

### 5.2.7 Change File Permissions

- **Actors:** Group administrators, Users that have uploaded files, group officers

- **Goals:** User will change permissions for an uploaded file

- **Preconditions:** User has permission to manage files of the group that the file was uploaded to or user is the file's original uploader

- **Summary:** Each file has a permission level required to view the file. If a user has insufficient permissions, they won't be able to view the file. By changing a file's permission level, you can control who is able to view the file. Users can change the permissions for any file they've uploaded, and administrators and group officers can change the permissions for any file uploaded to their group.

- **Steps:**

1. User navigates to the Docs page
2. User clicks the thumbnail of the file they want to view online
3. User clicks the modify button
4. User chooses a new permission level for the file
5. User clicks the submit button

- **Alternatives:**



- User can cancel out of process by hitting their browser's back button at any step before 5
- If the user tries to change permissions for a file and they don't have sufficient permissions within the group or as the file uploader, they will receive an error
- **Postconditions:** The file's permissions are changed in the database
- **Related use cases:** Upload File, Download File, View File Online, View File Online

## 5.2.8 Admin

### Add/Edit Group in Admin Panel

- **Actors:** Gus Admin
- **Goals:** Edit basic settings of group
- **Preconditions:** User is gus admin status
- **Summary:** Admin edits name and description of group
- **Implementation:** web, test
- **Related Use Cases:** Delete Group in Admin Panel
- **Steps:**
  1. Go to Admin Panel
  2. Click on 'Groups'
  3. Click on 'Add' or 'Edit'
    - if 'Edit', select group to edit and click 'Edit' again
  4. Enter a name (required) if not 'Edit' mode
  5. Enter a description
  6. Press 'Submit'
- **Alternatives:** Add/Edit Group for GroupPages
- **Postconditions:** Save succeeded, save failed

### Delete Group in Admin Panel

- **Actors:** Gus Admin
- **Goals:** Deletion of group
- **Preconditions:** User is gus admin status
- **Summary:** Admin deletes group
- **Implementation:** web, test

- **Related Use Cases:** Add/Edit Group in Admin Panel

- **Steps:**

1. Go to Admin Panel
2. Click on 'Groups'
3. Click on 'Delete'
4. Click checkbox(es) of group(s) to delete
5. Press 'Delete'

- **Alternatives:** (none)

- **Postconditions:** Deletion succeeded, failed

### Add/Edit Page in Admin Panel

- **Actors:** Gus Admin

- **Goals:** Addition/edit of page content

- **Preconditions:** User is gus admin status

- **Summary:** Admin adds a page to gus, or edit existing page content

- **Implementation:** web, test

- Related Use Cases: Delete Page in Admin Panel

- **Steps:**

1. Go to Admin Panel
2. Click on 'Pages'
3. Click on 'Add' or 'Edit'
  - if 'Edit', select page name to edit, and click 'Edit' again
4. If not in 'Edit' mode, enter a page name
5. Change the content in the content box
6. Press 'Submit'

- **Alternatives:** (none)

- **Postconditions:** Addition/edit succeeded, failed

### Delete Page in Admin Panel

- **Actors:** Gus Admin
- **Goals:** Deletion of page
- **Preconditions:** User is gus admin status
- **Summary:** Admin delete page
- **Implementation:** web, test
- Related Use Cases: Add/Edit Page in Admin Panel
- **Steps:**
  1. Go to Admin Panel
  2. Click on 'Pages'
  3. Click on 'Delete'
  4. Click checkbox(es) of group(s) to delete
  5. Press 'Delete'
- **Alternatives:** (none)
- **Postconditions:** Deletion succeeded, deletion failed

### Add/Edit User in Admin Panel

- **Actors:** Gus Admin
- **Goals:** Addition/edit of user content
- **Preconditions:** User is gus admin status
- **Summary:** Admin adds a user to gus, or edit existing user name, password, and group membership
- **Implementation:** web, test
- Related Use Cases: Delete User in Admin Panel
- **Steps:**

1. Go to Admin Panel
2. Click on 'Users'
3. Click on 'Add' or 'Edit'
  - if 'Edit', select user name to edit, and click 'Edit' again
4. If not in 'Edit' mode, enter a user name
5. Change/enter the user's password
6. (Un)check the groups the user should belong to.
  - Set user's permission level for each group (optional)
7. Press 'Submit'

- **Alternatives:** (none)
- **Postconditions:** Addition/edit succeeded, failed

#### Delete User in Admin Panel

- **Actors:** Gus Admin
- **Goals:** Deletion of user
- **Preconditions:** User is gus admin status
- **Summary:** Admin deletes user
- **Implementation:** web, test
- **Related Use Cases:** Add/Edit User in Admin Panel
- **Steps:**
  1. Go to Admin Panel
  2. Click on 'Users'
  3. Click on 'Delete'
  4. Click checkbox(es) of user(s) to delete
  5. Press 'Delete'
- **Alternatives:** (none)
- **Postconditions:** Deletion succeeded, deletion failed

## 5.2.9 System feature: Group Files

### 5.2.10 Upload File

- **Actors:** Logged in Users
- **Goals:** User will upload a file to a group from their computer
- **Preconditions:** User is a member of the group they want to upload a file to
- **Summary:** The file uploading functionality allows users to share files with groups they are a member of. Uploaded files are stored on the server and can be viewed and downloaded by other users with sufficient permission levels.
- **Steps:**
  1. User navigates to the Upload page
  2. User clicks the browse button to bring up the file browser
  3. User selects a file from their computer to upload and clicks the Open button in the file browser
  4. User selects a group from the list of groups they are a member of using the drop-down menu on the Upload page
  5. User clicks the Upload button to upload their file
- **Alternatives:**
  - User can cancel out of process by hitting their browser's back button at any step before 5
  - User can do steps 2-4 in any order, as long as step 3 happens immediately after step 2
  - If the user tries to upload a filetype that isn't allowed, or a file that is too large, or if the user does not specify a file, they will get an error
- **Postconditions:** The file chosen by the user is uploaded to the server, and inserted into the database
- **Related use cases:** Download File, Delete File, Change File Permissions

### 5.2.11 Download File

- **Actors:** Logged in Users
- **Goals:** User will download a file from a group to their computer
- **Preconditions:** User is a member of the group they want to download a file from or user is the file's original uploader
- **Summary:** The downloading functionality allows users to download a copy of an uploaded file from the server. Users are only able to download files they have permission to view.
- **Steps:**
  1. User navigates to the Docs page
  2. User clicks the thumbnail of the file they want to download
  3. User clicks the download button
  4. User's browser downloads the file
- **Alternatives:**
  - User can cancel out of process by hitting their browser's back button at any step before 3
  - If the user tries to download a file they don't have permission to view, they will receive an error
- **Postconditions:** The file is downloaded from the server via the user's browser
- **Related use cases:** Upload File, View File Online, Delete File, Change File Permissions

### 5.2.12 View File Online

- **Actors:** Logged in Users
- **Goals:** User will view a file inside their browser rather than download it to their computer to view
- **Preconditions:** User is a member of the group that the file was uploaded to or user is the file's original uploader

- **Summary:** Users are able to view some file types online. Images and pdfs can be viewed within the user's browser rather than downloading them to the user's local machine first. A user needs the same permission to view files as they do to download files.
- **Steps:**
  1. User navigates to the Docs page
  2. User clicks the thumbnail of the file they want to view online
  3. User clicks the view button
  4. User's browser displays the file
- **Alternatives:**
  - User can cancel out of process by hitting their browser's back button at any step before 3
  - If the user tries to view a file they don't have permission to view, they will receive an error
- **Postconditions:** The file is displayed within the user's browser
- **Related use cases:** Upload File, Download File, Delete File, Change File Permissions

### 5.2.13 Delete File

- **Actors:** Group administrators, Users that have uploaded files, group officers
- **Goals:** User will delete an uploaded file from the database and server
- **Preconditions:** User has permission to manage files of the group that the file was uploaded to or user is the file's original uploader
- **Summary:** Users are able to delete files they have uploaded from the server. Group officers and administrators are able to delete any file uploaded to their group.
- **Steps:**
  1. User navigates to the Docs page
  2. User clicks the thumbnail of the file they want to view online
  3. User clicks the delete button



4. Server deletes the file and the user is redirected to the Docs page

- **Alternatives:**

- User can cancel out of process by hitting their browser's back button at any step before 3
- If the user tries to delete a file and they don't have sufficient permissions within the group or as the file uploader, they will receive an error

- **Postconditions:** The file is deleted from the server

- **Related use cases:** Upload File, Download File, View File Online, Change File Permissions

### 5.2.14 Change File Permissions

- **Actors:** Group administrators, Users that have uploaded files, group officers

- **Goals:** User will change permissions for an uploaded file

- **Preconditions:** User has permission to manage files of the group that the file was uploaded to or user is the file's original uploader

- **Summary:** Each file has a permission level required to view the file. If a user has insufficient permissions, they won't be able to view the file. By changing a file's permission level, you can control who is able to view the file. Users can change the permissions for any file they've uploaded, and administrators and group officers can change the permissions for any file uploaded to their group.

- **Steps:**

1. User navigates to the Docs page
2. User clicks the thumbnail of the file they want to view online
3. User clicks the modify button
4. User chooses a new permission level for the file
5. User clicks the submit button

- **Alternatives:**

- User can cancel out of process by hitting their browser’s back button at any step before 5
- If the user tries to change permissions for a file and they don’t have sufficient permissions within the group or as the file uploader, they will receive an error
- **Postconditions:** The file’s permissions are changed in the database
- **Related use cases:** Upload File, Download File, View File Online, View File Online

### 5.2.15 System feature: User Page

### 5.2.16 View Profile

- **Actors:** Logged in Users
- **Goals:** User will view information about a Gus User.
- **Preconditions:** User is a member of Gus and logged in.
- **Summary:** The userpage contains all relevant information about a specific user, including full name, description, email, contact info, and major. It also contains links to other parts of the site, such as groups that the user is in, the user’s files, or a link to edit the profile.
- **Steps:**
  1. User logs into Gus with a valid account.
  2. User clicks their name in the top-right bar on the website. This links them to their personal page.
  3. User can also use the Search controller to view any other user’s page.
- **Postconditions:** The User is viewing a user’s personal page.
- **Related use cases:** Edit Profile, Search User, View Forum

### 5.2.17 Edit Profile

- **Actors:** Logged in Users
- **Goals:** User will edit their personal information.

- **Preconditions:** User is a member of Gus, logged in, and at their personal profile page.
- **Summary:** User is able to modify their personal information, such as contact info and email. This information is modified on the server.
- **Steps:**
  1. User logs onto Gus and navigates to their personal page.
  2. When on the page, the user clicks on “Edit my Profile”.
  3. User modifies any relevant information and clicks the “Submit” button.
- **Alternatives:**
  - User can click the “Cancel” button at any time to be taken back to their User page.
- **Postconditions:** The information (if submitted) is saved on the server and the User is returned to their userpage.
- **Related use cases:** View Profile

## 5.2.18 System feature: Group Page

### 5.2.19 View Grouppage

- **Actors:** Logged in Users
- **Goals:** User will view information about a Gus group.
- **Preconditions:** User is a member of Gus and logged in.
- **Summary:** The grouppage contains all relevant information about a group, including forum information, users in the group, and status.
- **Steps:**
  1. User logs into Gus with a valid account.
  2. User goes to their personal page and clicks on a group they are in OR User clicks on the Group button on the left side and selects a group.
  3. User views the grouppage if they have the proper permissions.

- **Postconditions:** User is now viewing a group's grouppage.
- **Related use cases:** View Profile

### 5.2.20 Edit Grouppage

- **Actors:** Logged in Users
- **Goals:** User will edit a group's information.
- **Preconditions:** User is a member of Gus, logged in, and an admin of the group.
- **Summary:** The user, if an admin of the group, is able to modify a group's information, which is then saved in the database.
- **Steps:**
  1. User logs into Gus and navigates to the group's page.
  2. User clicks on the "Edit this Group" link.
  3. User modifies whatever information they want and presses the "Submit" button to confirm.
- **Alternatives:**
  - User can click on the "Cancel" button to leave at any time.
- **Postconditions:** If changed, the new information is added to the database.
- **Related use cases:** View Group Page

### 5.2.21 View Group File Page

- **Actors:** Logged in Users
- **Goals:** User will view the files of a group
- **Preconditions:** User is logged into Gus and viewing a grouppage.
- **Summary:** If the user has proper read permissions, they will see a page containing the different files of a group. Each file, if clicked on, will take the user to its relevant Doc page.

- **Steps:**
  1. User logs into Gus and navigates to a group page.
  2. User clicks on the “View Group files” link.
  3. User gains access to all Docs functionality for the group’s files.
- **Alternatives:**
  - User can click the “Back” link at any time to go back to the group page.
- **Postconditions:** User can modify any information regarding the group’s files.
- **Related use cases:** Upload File, Download File, View File Online, Delete File, Change File Permissions

## 5.2.22 System Feature: Search

### User/Group Search

- **Actors:** Any GUS user
- **Goals:** Search for Users
- **Preconditions:** none
- **Summary:** A user requires information regarding existing users or groups. He/she can enter the search query and receive all results that match.
- **Related Use Cases:** Search Forums
- **Steps:**
  1. User navigates to the search controller using the navigation bar.
  2. User enters query in the search box, selects ”user” or ”group, and clicks ”search.”
  3. User receives matches to their entered query.
- **Alternatives:**
  - User entered a search query that returned no results.
- **Postconditions:** The user finds his/her target.

### 5.2.23 System Feature: Feedback

#### Submit Feedback

- **Actors:** Any GUS user
- **Goals:** Give helpful advice for improvement/bug fixes to the developers.
- **Preconditions:** None, though use of GUS is preferred.
- **Summary:** If a user encounters something he/she judges to be incorrect (bugs, wonky features, etc), he/she can let the developers know about it.
- **Related Use Cases:** none
- **Steps:**
  1. User finds something they wish to notify the devs about.
  2. User navigates to the Feedback page.
  3. User enters any thoughts they may/may not have.
  4. User clicks submit.
- **Alternatives:** None. The feedback feature accepts any and all user input.
- **Postconditions:** The user is notified of a successfully sent piece of feedback. Hopefully the devs can actually help with whatever the feedback contained..