

Project Plan, Team Charter

GroupThink

| | |
|--------------------|------------------------|
| Industry Partner | n/a |
| Primary Instructor | Anjana Shah |
| Team Member | Samuel Benoit |
| Team Member | Thomas Ian Del Rosario |
| Team Member | Darren Lung |
| Team Member | Alvin Santiago |
| Team Member | John Yang |
| Team Member | Ihsaan Yogarasa |

Document Revision History

| Revision # | Date |
|------------|------|
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1. Executive Summary

The following describes the project to be executed.

| | |
|---------------------------|--|
| Objective | The GroupThink project is a large and complicated information system. With one centralized database, the delivered system will be composed of three subsystems. Each subsystem solves a separate problem. Several subsystems are dependent on the existence of another subsystem. |
| Corporate Goals Addressed | The business goals and objectives for this project will focus on implementing mobile technology that: <ul style="list-style-type: none"> - Assists users in making decisions. - Connects user through an online community - Allows business to advertise to these user - Allows business to collect data about their advertisement campaigns - Enable CSR to administrate the information system. |
| Planned Start Date | October 1 th , 2017 |
| Planned End Date | March 30, 2018 |

2. Project Approvers, Reviews and Distribution List

Approvers, reviewers and distribution list

| Project Role | Name | E-mail | Date |
|------------------|------------------------|--------|------|
| Team Lead | Samuel Benoit | | |
| Junior Developer | Thomas Ian Del Rosario | | |
| Junior Developer | Darren Lung | | |
| Junior Developer | Alvin Santiago | | |
| Junior Developer | John Yang | | |

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|------------------|-----------------|--|--|
| Junior Developer | Ihsaan Yogarasa | | |
|------------------|-----------------|--|--|

3. Scope

Define the sum total of all of its products and their requirements or features.

| In Scope | Out of Scope |
|----------|--------------|
| | |

4. Deliverables

This project will deliver the following.

| Deliverable | Description |
|---|--|
| User Subsystem | <p>The User Subsystem is a network of servers that handle and send data to Users. The subsystem is used by users to help make decisions.</p> <p>The User Subsystem is to deliver:</p> <ul style="list-style-type: none"> - A react native application - A User Server |
| Client Subsystem | <p>The Client Subsystem is a network of servers that receive and send data to Clients. The subsystem is used by Clients to publish advertisement campaigns to be shown to users by the User Subsystem mobile application.</p> <p>The Client Subsystem is to deliver:</p> <ul style="list-style-type: none"> - A Node JS web application |
| Customer Service Representative Subsystem | <p>The CSR Subsystem is a network of servers that receive and send data to a CSR. The subsystem is used to administrate the previous two subsystems.</p> <p>The CSR Subsystem is to deliver:</p> <ul style="list-style-type: none"> - A Node JS web application. |

5. Assumptions

The following assumptions are made throughout the development of the GroupThink information system:

- React Native will fit the project needs.
- All technologies used will remain open source.
- The team will have to necessary knowledge and skills to complete the project.
- The estimated project scope can be completed by the project's deadline.

6. Dependencies

The following are the internal and external dependencies that will have to be acknowledged and addressed;

- The team's ability to communicate and work together effectively.
- The team has the knowledge and skills required to build to iformation system.
- The Technology stack fits the solution.
- The scope is not too large for the project duration.
-

Scope initially defined in project plan, reviewed Every weekly meeting by meeting attendees.

7. Risk Management

| Potential Risk | Severity (H/M/L) | Likelihood (H/M/L) | Management Strategy |
|---------------------------|--|--------------------|--|
| Project Size | | | |
| Large Project Scope | H: Three subsystems | Certainty | Well organized project plan. Lack of project weaknesses. |
| Project Definition | | | |
| Project Scope Creep | L: Scope defined, subject to revision. | Unlikely | Scope initially defined in project |

| | | | |
|---|--|-------------------|---|
| | | | plan, reviewed every weekly meeting by meeting attendees. |
| Project Leadership | | | |
| Team Lead is removed | H: Team Lead has committed to the success of the project. | Highly Unlikely | The team lead to remain motivated and organized as to remain in control of the project. |
| Absence of Commitment Level/Attitude of Team Lead | L: Understands value & supports project. | Unlikely | Frequently seek feedback to ensure continued support |
| Absence of Commitment Level/Attitude of Development Team. | L: Understands value & supports project. | Unlikely | Frequently seek feedback to ensure continued support |
| Project Staffing | | | |
| Project Team Size | M: 6 Members | Certainty | Comprehensive communications plan, Frequent meetings, tight management oversight. |
| Project Team Availability | M: Team homes are distanced far apart. Lengthy travel times. | Somewhat Unlikely | Continuous online communication with group members and identify solutions as to avoid unavailability, |

8. Communication

Reporting

The following reports will be produced;

| Report | Audience | Frequency |
|-----------------|--|--|
| Meeting Minutes | Anjana, Samuel Benoit, Alvin Santiago, Darren Lung, Ihsaan Yogarasa, Thomas Ian Del Rosario, | Twice every week. Produced during every weekly meeting. |

| | | |
|--|------------|--|
| | John Yang. | |
|--|------------|--|

Meetings

The following meetings/communication will be established;

| Meeting | Purpose | Attendees | Frequency |
|-------------------------|---|--|---|
| In Person Scrum Meeting | In person meeting | <ul style="list-style-type: none"> - Samuel Benoit - Thomas Ian Del Rosario - Darren Lung - Alvin Santiago - John Yang - Ihsaan Yogarasa | <ul style="list-style-type: none"> - 2 Weekly meetings - Every Tuesday & Thursday |
| Daily Scrum Meeting | Utilize online voice communication to discuss each team members blocks and progress. | <ul style="list-style-type: none"> - Samuel Benoit - Thomas Ian Del Rosario - Darren Lung - Alvin Santiago - John Yang - Ihsaan Yogarasa | <ul style="list-style-type: none"> - Daily (includes weekends) |
| Sprint Planning | <ul style="list-style-type: none"> - Discuss user stories - Prepare for coming sprint | <ul style="list-style-type: none"> - Samuel Benoit - Thomas Ian Del Rosario - Darren Lung - Alvin Santiago - John Yang - Ihsaan Yogarasa | <ul style="list-style-type: none"> - At the beginning of a sprint. |
| Sprint Review | <ul style="list-style-type: none"> - Demonstrate | <ul style="list-style-type: none"> - Samuel | <ul style="list-style-type: none"> - At the end |

| | | | |
|---|---|--|--|
| | <p>completed work.</p> <ul style="list-style-type: none"> - Discuss scrum improvements. | <p>Benoit</p> <ul style="list-style-type: none"> - Thomas Ian Del Rosario - Darren Lung - Alvin Santiago - John Yang - Ihsaan Yogarasa | <p>of a sprint.</p> |
| Weekly meeting with Capstone course professor | <ul style="list-style-type: none"> - Review progress - Discuss possible improvements - Ask professor questions | <ul style="list-style-type: none"> - Samuel Benoit - Thomas Ian Del Rosario - Darren Lung - Alvin Santiago - John Yang - Ihsaan Yogarasa | <ul style="list-style-type: none"> - Weekly - Every Friday |

9. Task Listing (WBS- Work Breakdown Structure)

9.1 User Subsystem

The following resource proposal template summarizes the resource hours committed to this project, upon final approval of this document. The tasks have been organized by the scrum sprint they are associated with.

| Reference | Tasks | Duration | Dependency |
|-----------|--|----------|------------|
| 1 | <p>Sprint 1 Tasks:</p> <p>As a user I need to be able to create an account with an email, username, and password So that I can access the system</p> <p>As a user I need to edit my authentication information which is my email & password So that I may update authentication information</p> <p>As a user I need to edit my username So that I may update my profile name</p> <p>As a user I need to be able to create profile information which is first name, last name, profile picture, biography So that I can represent myself in the community</p> <p>As a user I need to be able to edit my profile information which is first name, last name, profile picture, biography So that I can edit the information that represents myself in the community</p> | | |
| 2 | <p>Sprint 2 Tasks:</p> <p>As a user I need to be able to create a decision poll</p> | | |

| | | | |
|---|--|--|--|
| | <p>So that I may share it with the community and gather feedback</p> <p>As a user I need to be able to create a decision poll So that I may edit the decision poll I have shared with the community and gather feedback</p> <p>As a user I need to be able to destroy my decision poll So that I may remove it from the system</p> <p>As a user I need to be able to be able to add a title to my decision poll So that other users will know what the topic of my decision poll is</p> <p>As a user I need to be able to a picture to my decision poll So that I may better explain my decision poll</p> <p>As a user I need to be able to add a description to my decision poll So that I may better explain my decision poll</p> <p>As a user I need to be able to add tags to my decision poll So that other people may find my decision poll</p> <p>As a user I need to be able to add a choice to my decision poll So that people can vote on the choice</p> <p>As a user I need to be able to select an option to make my poll anonymous So that I hide my identity</p> | | |
| 3 | <p>Sprint 3 Tasks:</p> <p>As a user I need to be able to create a group with a name & color code So that I may organize my polls</p> <p>As a user I need to be able to edit the color of the code for</p> | | |

| | | | |
|---|--|--|--|
| | <p>a group that has not been created by GroupThink So that I may change the color myself and other users see</p> <p>As a user I need to be able to select a group for my poll So that my poll is visible in that group</p> <p>As a user I need to be able to view a group So that I can view decision polls from that group</p> <p>As a user I need to be able to subscribe to a group So that I can view decisions polls from that group in my feed</p> <p>As a user I need to be able to be able to unsubscribe from a group So that I may not view decisions polls from that group in my feed</p> | | |
| 4 | <p>Sprint 4 Tasks:</p> <p>As a user I need to have decision polls in my feed So that I may view a decision poll</p> <p>As a user I need to be able to skip a decision poll on my feed So that I may not have to vote on the poll</p> <p>As a user I need to be able to select a choice So that I can vote</p> <p>As a user I need to be able to view a decision poll's votes So that I see what other users are voting</p> <p>As a user I need to be able to create my own choice for a decision poll So that I may add my alternative choice for that decision poll</p> <p>As a user</p> | | |

| | | | |
|---|---|--|--|
| | <p>I need to be able to comment on a decision poll So that I communicate with other commenters</p> <p>As a user I need to vote on a comment So that I can support and or not support a comment</p> <p>As a user I need to be able to click on the profile of the non-anonymous decision poll creator So that I may view their profile</p> | | |
| 5 | <p>Sprint 5:</p> <p>As a user I need to view another user's profile So that I can view their decision polls, their profile information, and message the user.</p> <p>As a user I need to be able to follow another user So that I view their decision polls in my feed</p> <p>As a user I need to be able to report a user So that I report the user to the CSR</p> <p>As a user I need to be able to block a user So that I won't see their decision poll or receive messages from that user</p> | | |
| 6 | <p>Sprint 6 Tasks:</p> <p>As a user I need to be able to select a group to view So that I may view decision polls from that group</p> <p>As a user I need to be able to select my feed So that I may view decision polls from my feed</p> | | |
| 7 | <p>As a user I need to be able to view the voting results of my decision poll So that I view the results of the decision poll</p> | | |

| | | | |
|---|--|--|--|
| | As a user I need to be able to view the comments of my decision polls So that I can view the comments | | |
| 8 | As a user I need to be able be able to message another user So that I can communicate with them As a user I need to view a list of conversations I have with other users So that I can select a conversation As a user I need to be able to delete a conversation So that I may no longer be associated with the conversation As a user I need to be able to be able to send a message of type text, image, decision poll, & audio So that I can communicate effectively with another user As a user I need to be able to favourite a conversation So that I may filter through my conversations As a user I need to be able to receive a notification when I am sent a message So that I am notified about the message | | |

Gantt Chart

Create a Gantt Chart from your Task Listing – Below is an example:

| Task | Weeks | | | | | | | | | | Complete |
|----------|-------|-------|-------|-------|-------|-------|-------|---|---|----|----------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| Sprint 1 | ----- | | | | | | | | | | |
| Sprint 2 | | ----- | | | | | | | | | |
| Sprint 3 | | | ----- | | | | | | | | |
| Sprint 4 | | | | ----- | ----- | | | | | | |
| Sprint 5 | | | | | | ----- | | | | | |
| Sprint 6 | | | | | | | ----- | | | | |

| | | | | | | | | | | | |
|----------|--|--|--|--|--|--|--|-------|-------|-------|--|
| Sprint 7 | | | | | | | | ----- | | | |
| Sprint 8 | | | | | | | | | ----- | ----- | |

Milestones

| Major Activity or Milestone | Estimated Milestone Target date | Owner/Reviewer Team Members |
|---|---------------------------------|-----------------------------|
| Deliver shippable product from sprint 1 | October 20, 2017 | Samuel Benoit |
| Deliver shippable product from sprint 2 | October 27, 2017 | Samuel Benoit |
| Deliver shippable product from sprint 3 | November 3, 2017 | Samuel Benoit |
| Deliver shippable product from sprint 4 | November 10, 2017 | Samuel Benoit |
| Deliver shippable product from sprint 5 | November 17, 2017 | Samuel Benoit |
| Deliver shippable product from sprint 6 | November 24, 2017 | Samuel Benoit |
| Deliver shippable product from sprint 7 | December 1, 2017 | Samuel Benoit |
| Deliver shippable product from sprint 8 | December 8, 2017 | Samuel Benoit |
| Deliver shippable product from sprint 9 | December 15, 2017 | Samuel Benoit |

RAM – Responsibility Assignment Matrix

Sprint 1

| Task | Samuel | Thomas | Darren | Alvin | John | Ihsaan |
|--|----------|----------|----------|-------|------|----------|
| As a user I need to be able to create an account with an email, username, and password So that I can access the system | P | S | S | | | |
| As a user I need to edit my authentication | P | | | | | S |

| | | | | | | |
|--|----------|----------|----------|----------|----------|----------|
| information which is my email & password So that I may update authentication information | | | | | | |
| As a user I need to edit my username So that I may update my profile name | S | P | | S | S | |
| As a user I need to be able to create profile information which is first name, last name, profile picture, biography So that I can represent myself in the community | S | S | P | | | |
| As a user I need to be able to edit my profile information which is first name, last name, profile picture, biography So that I can edit the information that represents myself in the community | S | P | | S | S | S |

Sprint 2

| Task | Samuel | Thomas | Darren | Alvin | John | Ihsaan |
|-------------|---------------|---------------|---------------|--------------|-------------|---------------|
|-------------|---------------|---------------|---------------|--------------|-------------|---------------|

| | | | | | | |
|--|----------|----------|----------|----------|----------|----------|
| As a user I need to be able to create a decision poll So that I may share it with the community and gather feedback | P | | S | | | |
| As a user I need to be able to edit a decision poll So that I may edit the decision poll I have shared with the community and gather feedback | P | | | | | S |
| As a user I need to be able to destroy my decision poll So that I may remove it from the system | | P | S | | | |
| As a user I need to be able to be able to add a title to my decision poll So that other users will know what the topic of my decision poll is | | | | P | S | |
| As a user I need to be able to a picture to my decision poll So that I may better explain my decision poll | P | | | S | | |

| | | | | | | |
|---|----------|----------|----------|----------|----------|----------|
| As a user I need to be able to add a description to my decision poll So that I may better explain my decision poll | | | | | P | S |
| As a user I need to be able to add tags to my decision poll So that other people may find my decision poll | | P | S | | | |
| As a user I need to be able to add a choice to my decision poll So that people can vote on the choice | | | S | P | | |
| As a user I need to be able to select an option to make my poll anonymous So that I hide my identity | P | S | | | | |

Sprint 3

| Task | Samuel | Thomas | Darren | Alvin | John | Ihsaan |
|------|--------|--------|--------|-------|------|--------|
|------|--------|--------|--------|-------|------|--------|

| | | | | | | |
|---|----------|----------|----------|----------|----------|----------|
| As a user I need to be able to create a group with a name & color code So that I may organize my polls | P | | S | | | |
| As a user I need to be able to edit the color of the code for a group that has not been created by GroupThink So that I may change the color myself and other users see | | S | P | | | |
| As a user I need to be able to select a group for my poll So that my poll is visible in that group | | | | S | P | |
| As a user I need to be able to view a group So that I can view decision polls from that group | | | | | S | P |
| As a user I need to be able to subscribe to a group So that I can view decisions polls from that group in my feed | P | S | | | | |
| As a user I need to be able to be able to unsubscribe from a group So that I may not view decisions polls from that group in my feed | | P | | | | S |

| | | | | | | |
|--|--|--|--|--|--|--|
| | | | | | | |
|--|--|--|--|--|--|--|

Sprint 4

| Task | Samuel | Thomas | Darren | Alvin | John | Ihsaan |
|---|---------------|---------------|---------------|--------------|-------------|---------------|
| As a user I need to have decision polls in my feed So that I may view a decision poll | | P | S | | | |
| As a user I need to be able to skip a decision poll on my feed So that I may not have to vote on the poll | | | S | P | | |
| As a user I need to be able to select a choice So that I can vote | P | | S | | | |
| As a user I need to be able to view a decision poll's votes So that I see what other users are voting | | | | | P | S |

| | | | | | | |
|--|----------|----------|--|----------|----------|----------|
| As a user I need to be able to create my own choice for a decision poll So that I may add my alternative choice for that decision poll | P | | | S | | |
| As a user I need to be able to comment on a decision poll So that I communicate with other commenters | S | | | | | P |
| As a user I need to vote on a comment So that I can support and or not support a comment | | S | | | P | |
| As a user I need to be able to click on the profile of the non- anonymous decision poll creator So that I may view their profile | | | | P | S | |

Sprint 5

| Task | Samuel | Thomas | Darren | Alvin | John | Ihsaan |
|--|---------------|---------------|---------------|--------------|-------------|---------------|
| As a user I need to view another user's profile So that I can view their decision | S | | | P | | |

| | | | | | | |
|--|----------|----------|----------|--|----------|----------|
| polls, their profile information, and message the user. | | | | | | |
| As a user I need to be able to follow another user So that I view their decision polls in my feed | S | | P | | | |
| As a user I need to be able to report a user So that I report the user to the CSR | | P | | | | S |
| As a user I need to be able to block a user So that I won't see their decision poll or receive messages from that user | | | | | P | S |

Sprint 6

| Task | Samuel | Thomas | Darren | Alvin | John | Ihsaan |
|---|---------------|---------------|---------------|--------------|-------------|---------------|
| As a user I need to be able to select a group to view So that I may view decision polls from that group | P | S | S | | S | |

| | | | | | | |
|--|--|----------|----------|----------|--|----------|
| As a user I need to be able to select my feed So that I may view decision polls from my feed | | P | S | S | | S |
|--|--|----------|----------|----------|--|----------|

Sprint 7

| Task | Samuel | Thomas | Darren | Alvin | John | Ihsaan |
|---|---------------|---------------|---------------|--------------|-------------|---------------|
| As a user I need to be able to view the voting results of my decision poll So that I view the results of the decision poll | P | | S | | S | S |
| As a user I need to be able to view the comments of my decision polls So that I can view the comments | | S | | S | | P |

Sprint 8

| Task | Samuel | Thomas | Darren | Alvin | John | Ihsaan |
|-------------|---------------|---------------|---------------|--------------|-------------|---------------|
|-------------|---------------|---------------|---------------|--------------|-------------|---------------|

| | | | | | | |
|--|----------|----------|----------|----------|----------|----------|
| As a user I need to be able be able to message another user So that I can communicate with them | S | P | | | | |
| As a user I need to view a list of conversations I have with other users So that I can select a conversation | P | | S | | | |
| As a user I need to be able to delete a conversation So that I may no longer be associated with the conversation | | | | P | S | |
| As a user I need to be able to be able to send a message of type text, image, decision poll, & audio So that I can communicate effectively with another user | | | | S | | P |
| As a user I need to be able to favourite a conversation So that I may filter through my conversations | | | P | | S | |

| | | | | | | |
|--|----------|--|--|--|--|----------|
| As a user I need to be able to receive a notification when I am sent a message So that I am notified about the message | S | | | | | S |
|--|----------|--|--|--|--|----------|

9.2 Client Subsystem & Customer Service Representative Subsystem

Due to the Client Subsystem being dependent on the User Subsystem. The Client subsystem tasks, Gantt Chart, Milestones, RAM will be produces two weeks prior to the subsystems development.

10. Approval

The signatures below indicate their approval of the contents of this document.

| Project Role | Name | Signature | Date |
|---------------------------|------------------------|-----------|------|
| Team Lead | Samuel Benoit | | |
| Junior Software Developer | Darren Lung | | |
| Junior Software Developer | Alvin Santiago | | |
| Junior Software Developer | Thomas Ian Del Rosario | | |
| Junior Software Developer | John Yang | | |
| Junior Software Developer | Ihsaan Yogarasa | | |

TEAM CHARTER

1. Purpose

This team has been formed to complete the GroupThink information system as a part of the Capstone course. The overall objective of this project is to create the information system described in the GroupThink project vision. Effectively working together as a team and learning with each other is also an objective of our team.

2. Background

The GroupThink project will deliver a complicated information system. This information system is composed on four subsystems. The four subsystems will be built by the entire team in the order of each subsystems priority. The first subsystem, with the highest priority, to be built is the User Subsystem.

The User Subsystem has one user type. Identified as the 'User', the User is the sole user type of the subsystem. The subsystem allows users to connect with other users to help each other make decisions. Users may connect with other users through native mobile applications for both android and IOS devices. A network of servers built with Node JS serve a user request sent from a native mobile application.

The Client subsystem has one user type. Identified as the 'Client', the Client is the sole user type of the subsystem. A Client is a business or individual who creates advertisement campaigns through the subsystem. These advertisement campaigns are shown to users and the Client is charged for impressions or click through. A Client accesses the subsystem through a web browser. A network of servers hosting the Client Web Application respond to a Client's requests.

The Customer Service Representative subsystem has one user type. Identified as the 'Customer Service Representative' or the 'CSR', the Customer Service Representative is the sole user type of the subsystem. The subsystem allows a CSR to moderate the community of Users in the User Subsystem and assist Clients. A CSR accesses the subsystem through a web browser. A network of servers hosting the CSR Web Application respond to a CSR's requests.

The Business Administration Subsystem has one user type. Identified as the 'Business Administrator' or 'BA', the BA is the sole user type of the subsystem. The subsystem allows a BA to manage CSR accounts and view statistics about the site. A BA accesses

the subsystem through a web browser. A network of servers hosting the BA Web Application respond to a BA's requests.

The project has two internal stakeholder types. The Team Lead and the Web Developers.

The Capstone course allows us two semesters to complete this project. Due to a lack of time it is likely that the Business Administration subsystem will not be completed.

3. Scope

Our team is to deliver a shippable information system by the end date of this project. The information system will contain at least three subsystems. The Business Administration Subsystem is not an absolute necessity and will be completed if possible.

The team will be responsible for producing the entire information system. The information system is composed of three subsystems. The User Subsystem, Client Subsystem, and the Customer Representative Subsystem.

4. Team composition

Our team is composed of six computer programmer analyst students. Each of our team members is an essential member who will be involved in the development of the GroupThink information system. Samuel Benoit, the team lead, will provide guidance and support to other team members while contributing to the development of the information system.

Each team member is required to attend project meetings. Unless unable to attend; team members must attend all meetings stated in section 8 of the project plan. If a team member is unable to physically attend the meeting. The team member may join the meeting by a voice communication service.

5. Team empowerment

The Team Lead is the head authority of this project. Other team members have the ability to determine the projects outcome. As the only stakeholders, the Team decides what the information system will do. In order for the team to successfully operate they must be able to decide how to create each feature of the information system.

6. Team operations

Team's decision-making process

The decision-making process is heavily based on an open discussion format. Our team follows the meeting minutes guidelines with specific topics being discussed during each weekly group meeting. During the open discussion of our topics, our group goes around the room giving input,

ideas, as well as giving any criticisms about the given topic at hand. At the end of the discussion of each topic, we look for a general consensus for the group to agree upon.

Changes in membership

Changes of membership is based mostly on the team-leads discretion as well as if the group member is comfortable with the change or not. The groups team lead has a good idea of our groups skill set and knowledge of each individual group member due to prior experience working with them, which allows us to make calculated and proper changes within the group without creating any internal conflicts. Which will unlikely happen due to the fact that we have established a good plan about how we are going to approach the project with everyone's consent.

Establishing "Ground" or operating rules

Due to the prior experience, we have with one another working in a group setting, we established our grounds and rules of working as a group prior to this assignment. We follow three main operating rules which are attendance at meetings, Participation, as well as being honest and respectful. Each group member is expected to attend all meetings. If someone is not able to attend a meeting it is our groups job as a whole to fill them in and gather any additional information from them. Participation is expected from all members during the group meetings or using our group's online chat room. Lastly, being honest and respectful to each group member is expected from everyone. Giving constructive criticism and listening to everyone's input is our key to having a healthy and well running group without any conflicts.

7. Team Performance Assessment

There are several key areas of performance that are needed from each individual group member. One of the key areas of performance that is needed is communication. Since we have a large group, communication will play an important role in the success of this project. With communication, we were able to maintain control over our project, arrange meetings, and trouble shoot any obstacles that we had. Each individual also has to bring out their object-oriented programming experience to help create a sophisticated information system. We have learned much of programming throughout first and second year and now it is exciting that we can finally apply our knowledge and experience to our capstone project. We also had to manage our work and time, so that we are able to accomplish weekly task in a certain amount of time. In order for all this to happen, we have weekly meetings in the library. We would meet twice a week, Tuesdays and Thursdays, where we update our project and see how the project is going in terms of process. We would also evaluate if goals were achieved and assigned new task to each individual group members. With excellent communication, collaboration and team leader, we are confident that the project is going well.

8. Signature Page

| Name | Signature |
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