

# Team 3

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## Team Members

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## Document Control

### Change History

Revision	Change Date	Description of changes
V1.0	06/12/2019	Initial release^
V2.0	03/01/2020	Final release

### Document Owners

Senapathige Sahas and Toth Mihai Valentin are responsible for developing and maintaining this document.

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# 1 Overview

## 1.1 Purpose and Scope

Allow students and teachers to use an in-house messaging app for the exchange of information related to the school or external activities.

The application is required to provide a simple interface for sending messages. As mentioned in the objectives section above, the delivered product should demonstrate the ability to provide proper communication end-to-end and broadcast users.

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## 1.2 Goals and Objectives

Objectives: the general objective is to provide an alternative way to exchange information. It is expected:

- an interface developed with JFrame that allows access to the user;
- simple and intuitive operation.

- simple connection to other chat members

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### 1.3 Project Deliverables

#### Date Deliverable

08/10/2019 Subdivisions of tasks within the group and client initialization  
25/10/2019 Chat project introduction  
15/11/2019 Added code of client and server  
Technical Prototype  
18/11/2019 Finishing developing graphic part  
29/11/2019 Developed code of the client: added all packages  
01/12/2019 New GUI. Rvisited the first version.  
04/12/2019 Implemented chat group  
12/12/2019 Improved structure of code  
20/12/2019 Code ready to be presented and released  
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### 1.4 Assumptions and Constraints

#### 1.4.1 Assumptions

- 1.The client should connect to the server.
- 2.The client should interact with the server to exchange messages in a public and private chat .Interfacing the app with a proxy server and third-party website is feasible.
- 3.The client should have a graphical interface

#### 1.4.2 Constraints

Constraints:

- 1.Use TCP protocol.
- 2.Client must connect with every TCP server.
- 3.Generate the packages wanted by the server.

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## 2 Startup Plan

### 2.1 Team Organization

#### Role Actor(s) Responsibility

Project Manager Er Raqioui.

Bachir

Call team meetings, coordinate communications within group, coordinate communications outside group, break out tasks, assign them to teammates

Developer Bachir Develop software based on requirement and architect specifications

Programmer Bachir,

Montresor,

Senapathige,

Er Raqioui,

Toth

Program to requirement and architect specifications

Tester Bachir,

Montresor,

Senapathige,

Er Raqioui,

Toth

Write test cases, perform unit testing of test cases against incremental release of code, perform integrated testing of test cases against incremental release of code, report issues

Architect Bachir Specify overall internal workings of application Requirement

Engineer

Bachir,

Montresor,

Senapathige,

Er Raqioui,

Toth

Outline and document project dependencies and requirements. This includes internal and external dependencies.

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## 2.2 Project Communications

### Event Information Audience Format Frequency

Team

Meeting

Task status: completed  
since last meeting &  
planned for next;  
obstacles encountered;  
change requests in  
process

All team  
members

Informal meetings  
during class

hours; Formal  
meetings as  
needed; Updates  
and problems via

TeamSpeak or  
Discord

As needed

Project

Status

Report

Review finished items,  
status of prototype;  
review any problems,  
schedule slippage,  
programming issues

All team

members,  
customer

Message on

Whatsapp or  
notes in GitHub's  
commit

Iteration

Closeout

## 2.3 Technical Process

An iterative and incremental development process is planned. Feedback will be used from each iteration to improve the next. The first iteration will focus on basic functionality of the application. Subsequent iterations will build upon that and incorporate more features as time allows.

## 2.4 Tools

- Programming & Markup Languages - Java, XML
- Operating System - Windows 8.1/
- Version Control - all work products will be stored in an SVN repository
- Development Tools - Netbeans
- Presentation - Google Presentation

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## 3 Control Plan

### 3.1 Monitoring and Control

The following list of dates includes formal reviews outside of the Communication Plan. Milestones are included to reference where the project is scheduled to stand as these reviews occur:

#### Date Review / Milestone

10/11/2019 Milestone: Technical Prototype Complete  
17/11/2019 5-Minute Status Report  
18/11/2019 Manager's Briefing  
26/11/2019 Milestone: Iteration #1 Complete  
11/12/2019 Milestone: Test Report Complete  
13/12/2019 Inspection  
15/12/2019 Milestone: Iteration #2 Complete  
18/12/2019 Milestone: Product Released  
21/12/2019 Final Presentations

### 3.2 Configuration Management Plan

The following procedure is to be used when making changes to all baselined work products:

1. All project work products will be stored in a centralized SVN repository running on a central server (GitHub).
2. All baselined documents will have a Document Control section with a change history to track initialization and subsequent changes.

3.All project work products (documents, source code, test cases, program data, test data, etc) will be stored in the SVN repository but not all will be under change control (subject to formal change control procedures.) Only the system requirements, project plan and source code will be baselined and under configuration control.

4.Items that are subject to change control will be considered baselined after a group review at the end of the initial document creation.

5.The change control procedure once a product is baselined is: (1) anyone wanting to make a change to a baselined item sends a message to the rest of the team describing the change, reason for the change.

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(2) if no one responds to the group within 2 hours with a reason for why the change request shouldn't be permitted, it will be considered accepted and the person proposing the change may proceed with the change. (3)if anyone does object to the change, the reason for objecting will be discussed at a meeting on TeamSpeak or Discord where everyone is invited to attend and voice their opinion. At the end of the meeting a democratic vote will be held to decide whether or not the change should be allowed. (4)if a change takes place, the initiator must collaborate with the project manager to update the schedule

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## 4 Supporting Process Plans

### 4.1 Risk Management Plan

Rank Risk Probability of Loss Size of Loss Risk Exposure Response

1 Schedule / time line delivery

Likely Major High Mitigate: Stick to the schedule.

2 ManageMyID

website changes

HTML layout

Likely Moderate Moderate Avoid: Breaking the parsing engine out into a separately hosted server allows for fixes to occur in one place, instantly for all users, and with minimal intrusion.

3 Learning curve

for new tools and

technologies

longer than

expected  
Unlikely Moderate Moderate Buy Information: Begin  
working on a basic  
prototype early to test  
out fundamental  
programming concepts &  
knowledge  
4 Data feed not  
available from  
ManageMyID  
website  
Unlikely Minor Low Avoid: Instead of using a  
feed from ManageMyID,  
depend upon logging into  
the site, and pull relevant  
information from HTML  
fields.

#### **4.2 Test Plan**

The test plan defines the items that will be tested, methods for testing.

#### **4.3 Product Acceptance Plan**

At the conclusion of each iteration, the prototype created will be tested to ensure it meets the requirements of that iteration. An environment such as the iPhone simulator may be used to test functionality in lieu of the app being loaded on an actual smartphone.

For the final iteration, product acceptance testing will ensure that the prototype functions as expected with a user's data.