Team Number	01	**Section**	04
Team Members	1. Ajay Singh 2. Landon Shishido 3. Shun Furuya		
Software Name	Recommend-Easy		

1 Introduction

1.1 Objective

This document defines the minimum functional requirements that our software must implement in order to meet our client's needs and requirements. It is intended to serve as a blueprint for our software development team and provides a clear overview of the software's architecture, design and functionality.

1.2 References

Our team has used Violet UML Editor to create detailed class, sequence and state diagrams for our application. We also used Adobe XD to generate our software's mockups and the technical specification template provided by Ahmad Yazdankhah.

1.3 Acronyms, and Abbreviations

N/A	

2 Software Overview

2.1 Problem Statement

Writing recommendations for students who want to apply for higher education is one of the faculties' responsibilities at any level.

Faculties usually spend some time to compile all required information they need for preparing a suitable recommendation. Furthermore, a student may apply for several schools.

Therefore, faculties need to keep track of the recommendation, written for a student, to be able to reuse it later if the student applies for other schools.

There is no open source and free personal tool for compiling recommendations.
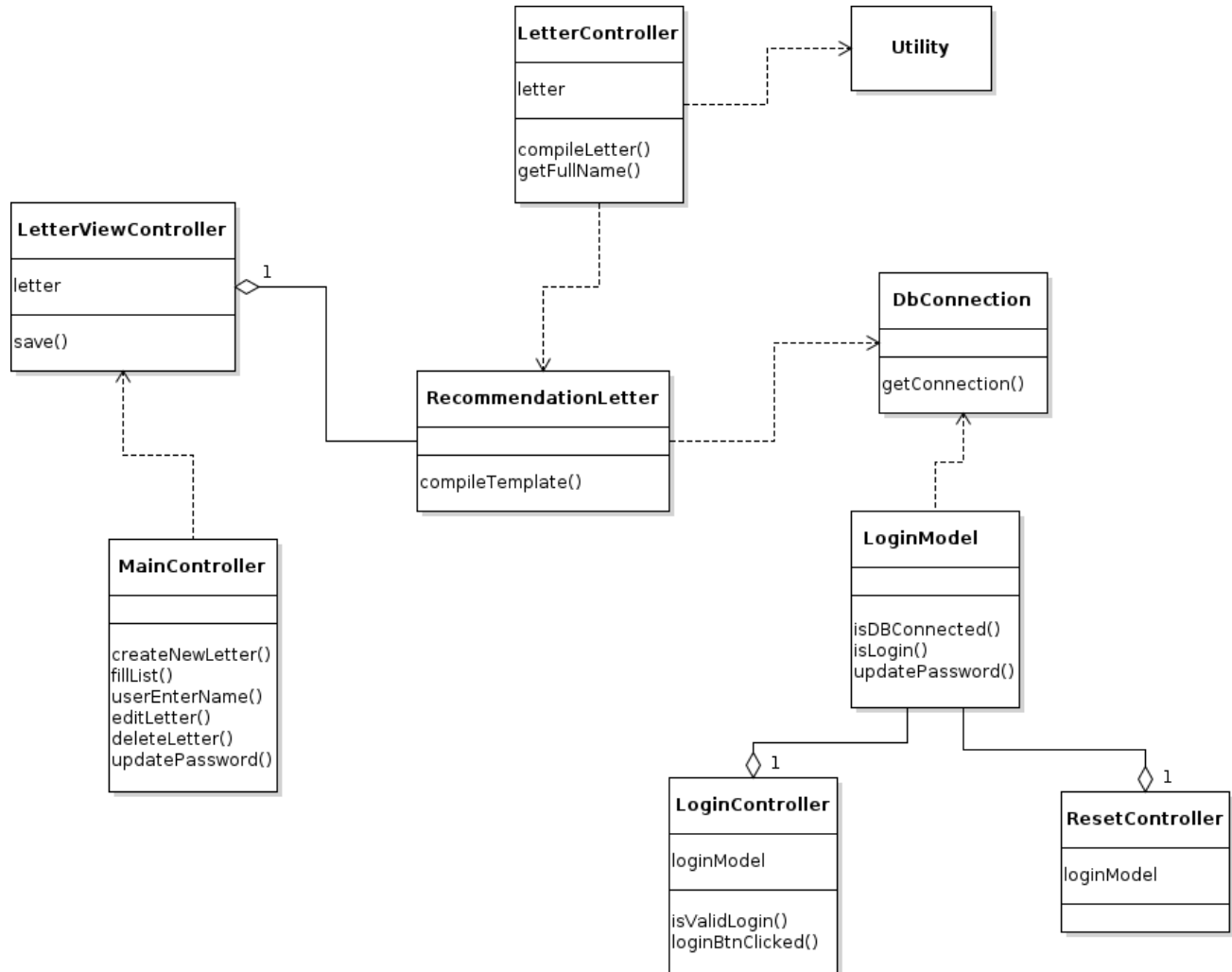
2.2 Scope

Our software's target audience are faculty members working at high schools, community colleges and universities.
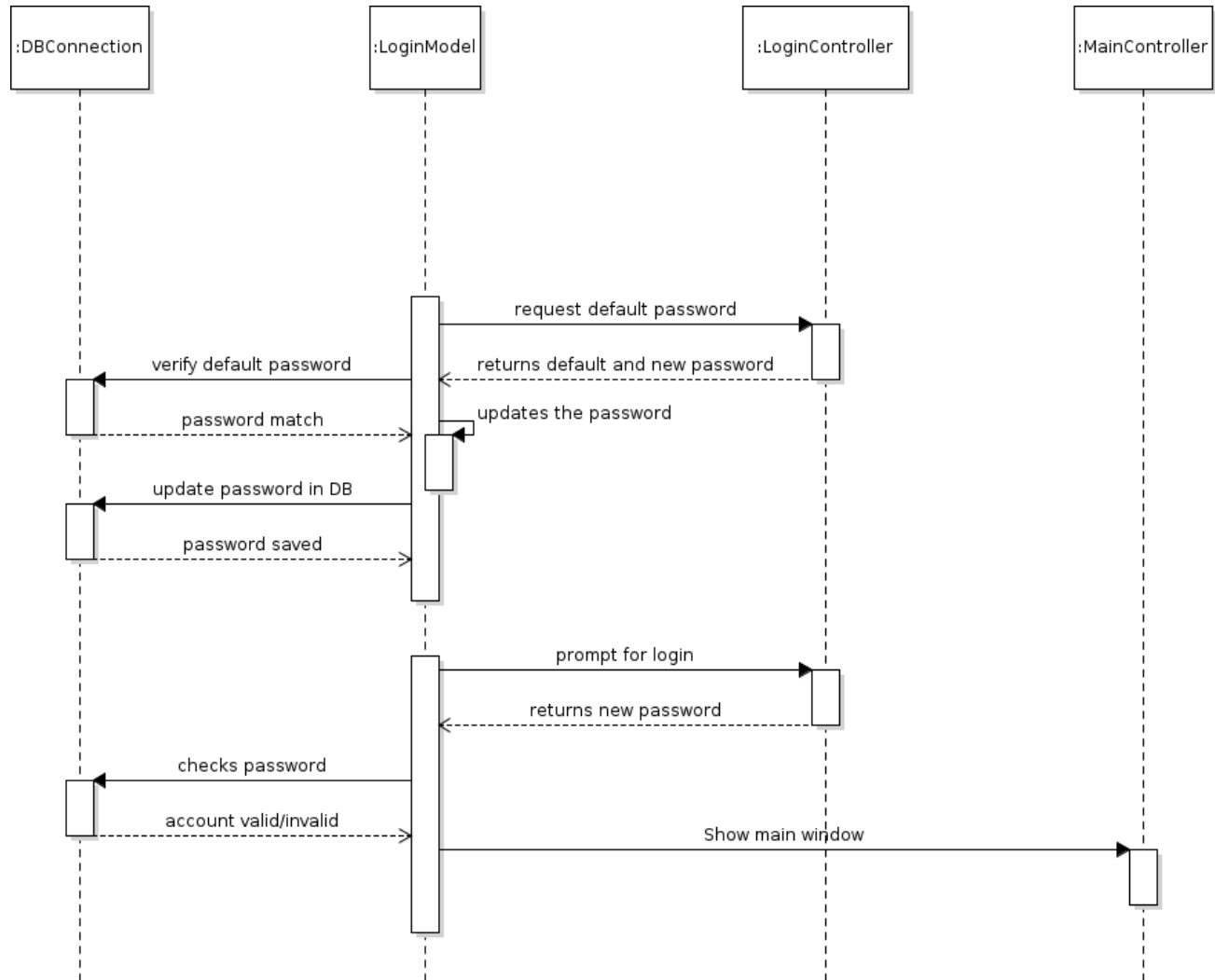
3 Detailed Design

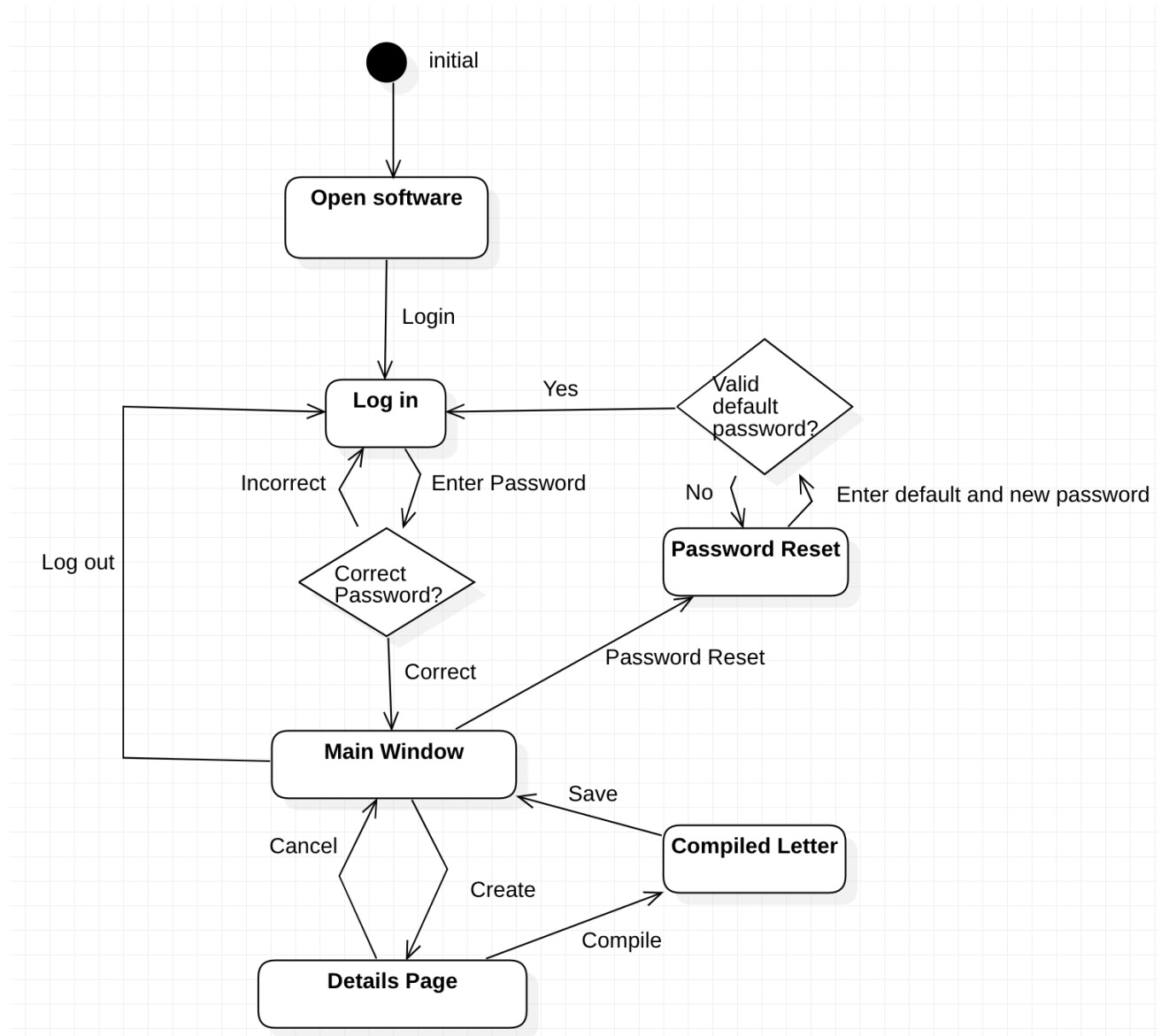## 3.1 UML Class Diagrams (for all classes/interfaces)

Class diagram

3.2 UML Sequence and/or State Diagrams

Sequence diagram for resetting and updating password in Database.

State diagram

State diagram

- initial
- **Open software**
  - Login →
- **Log in**
  - Incorrect / Enter Password
- Correct Password?
  - Correct →
- **Main Window**
  - Log out
  - Password Reset →
- Valid default password?
  - Yes →
  - No / Enter default and new password
- **Password Reset**
- **Main Window**
  - Cancel / Create
- **Details Page**
  - Compile →
- **Compiled Letter**
  - Save →

3.3   Mockups

1.   Log-in page

Log in

Recommend Easy

A useful tool to auto generate letter of
recommendations for your students

Get started for free

Password

Login

2. Password reset window

Recommend Easy
Last step of the sign-up process

Default password

Enter default password

New password

Enter new password

Confirm new password

Status:

3. Home page
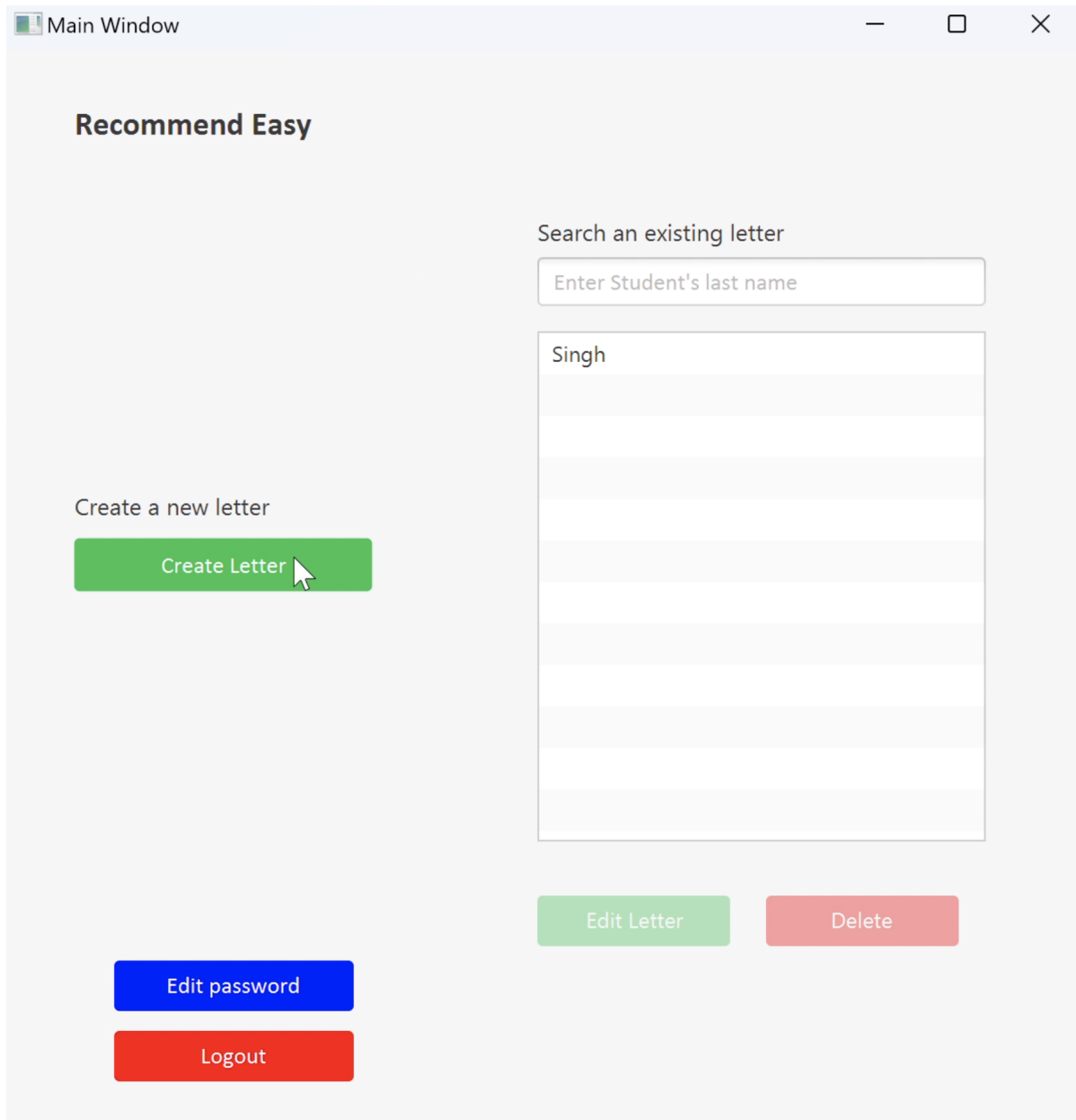
4. New Recommendation

Details Page — □ ✕

Fill student details

| Mary |

| Kom |

| Female ▾ |

| MIT |

| 5/5/2023 🗓 |

Select program

| Master of science ... ▾ |

First semester, Year

| Spring ▾ | 2023 |

```
Spring, 2023
```

ADD

Other courses taken, Grade

| CS1: Object-Oriented De... ▾ | A |

```
CS1: Object-Oriented Design, A
```

ADD

| very enthusiastic ▾ |

```
very passionate
very enthusiastic
```

ADD

| worked hard ▾ |
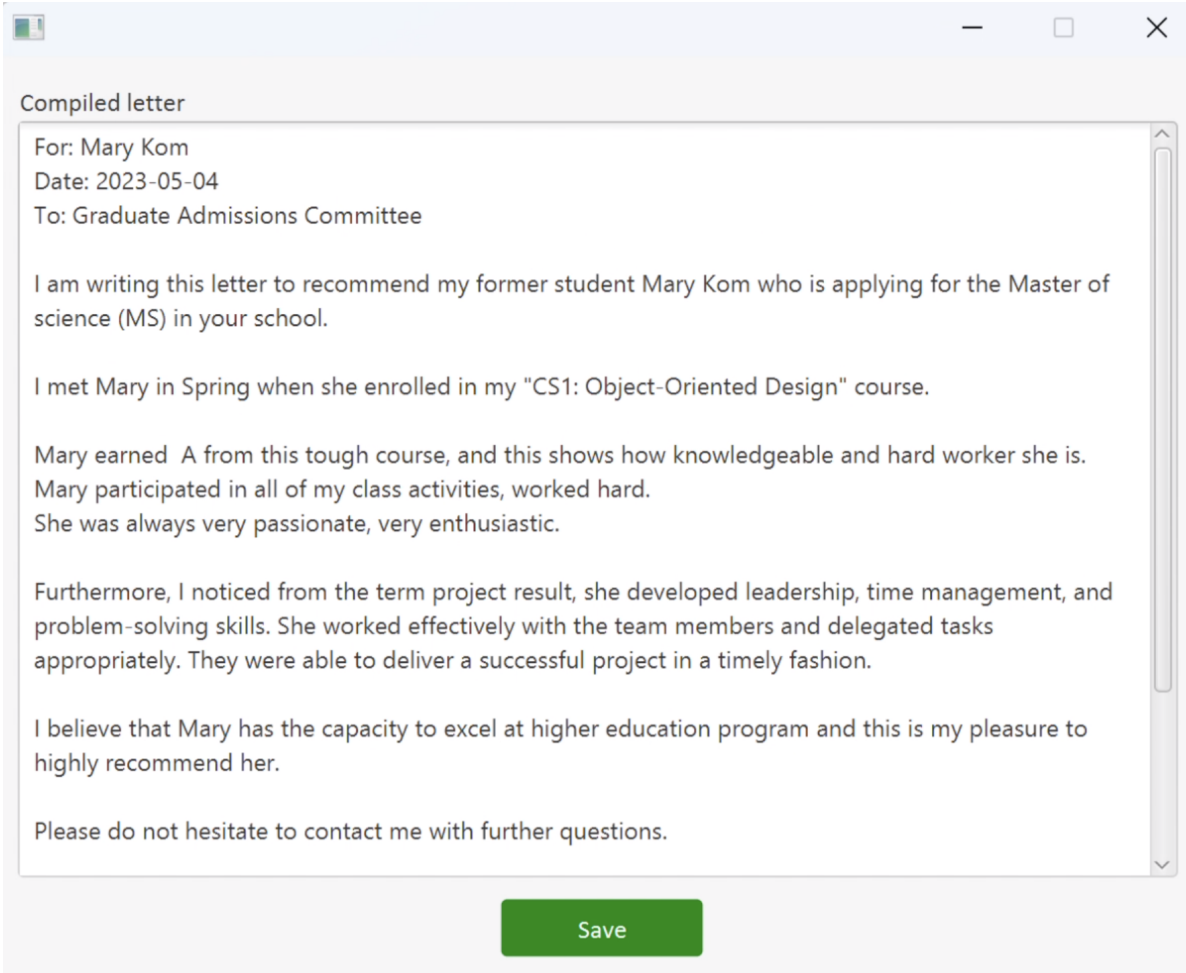
```
participated in all of my class activities
```

ADD

Compile   Cancel

5. Recommendation Preview

Compiled letter

For: Mary Kom
Date: 2023-05-04
To: Graduate Admissions Committee

I am writing this letter to recommend my former student Mary Kom who is applying for the Master of science (MS) in your school.

I met Mary in Spring when she enrolled in my "CS1: Object-Oriented Design" course.

Mary earned A from this tough course, and this shows how knowledgeable and hard worker she is.
Mary participated in all of my class activities, worked hard.
She was always very passionate, very enthusiastic.

Furthermore, I noticed from the term project result, she developed leadership, time management, and problem-solving skills. She worked effectively with the team members and delegated tasks appropriately. They were able to deliver a successful project in a timely fashion.

I believe that Mary has the capacity to excel at higher education program and this is my pleasure to highly recommend her.

Please do not hesitate to contact me with further questions.

Save