

Technical Spec

Team Number	01	Section	04
Team Members	<ol style="list-style-type: none">1. Ajay Singh2. Landon Shishido3. 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.

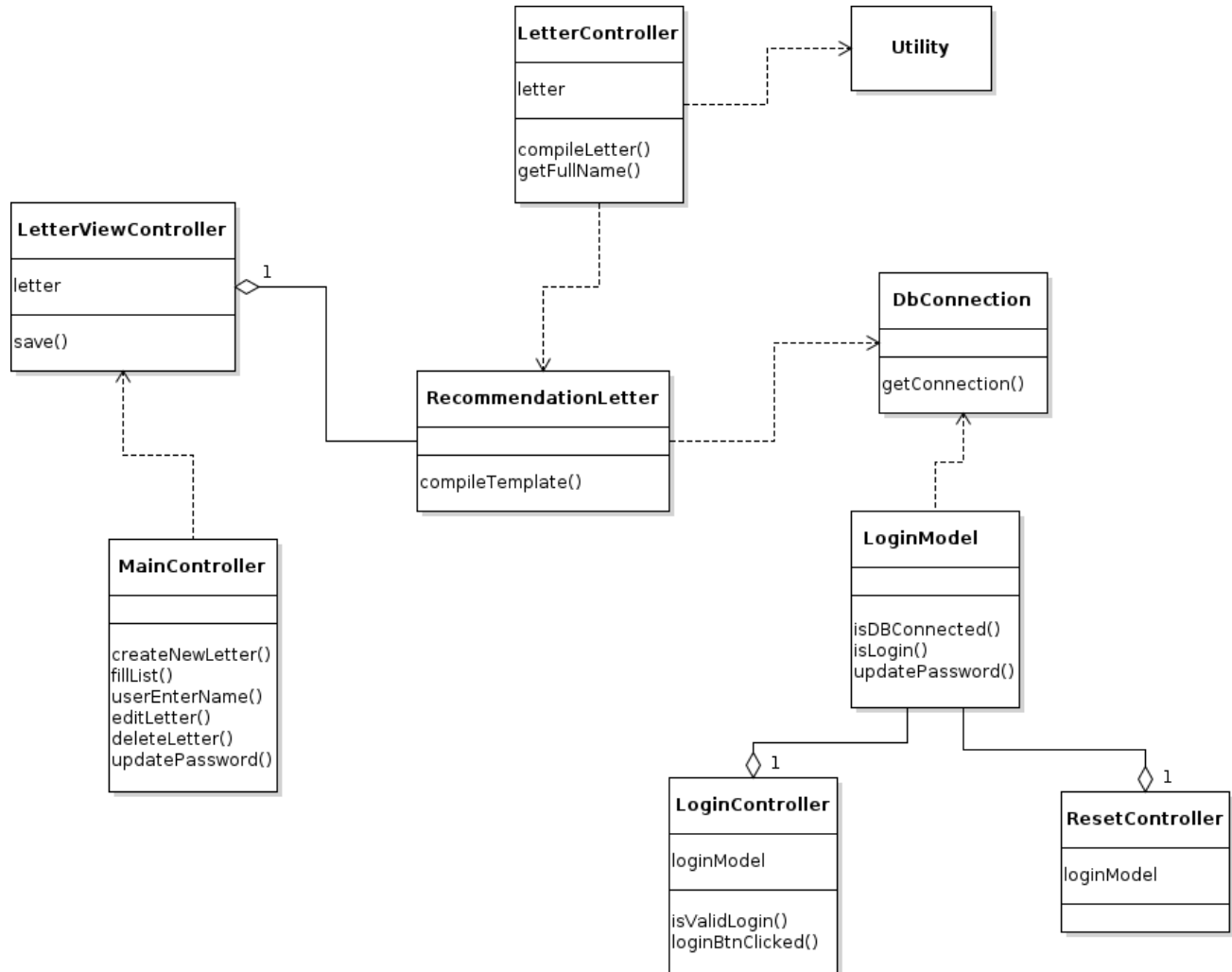
2.2 Scope

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

3 Detailed Design

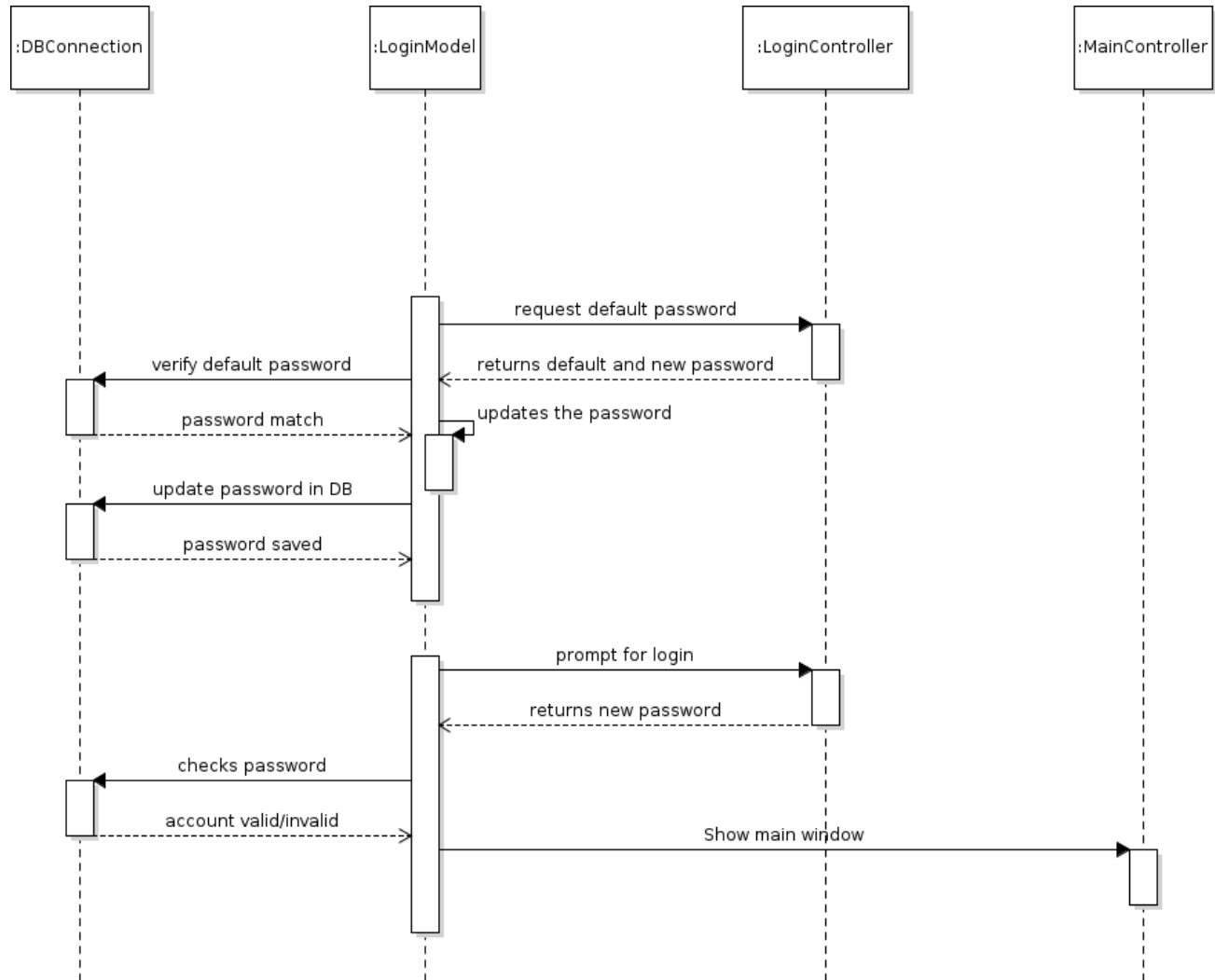
3.1 UML Class Diagrams (for all classes/interfaces)

Class diagram

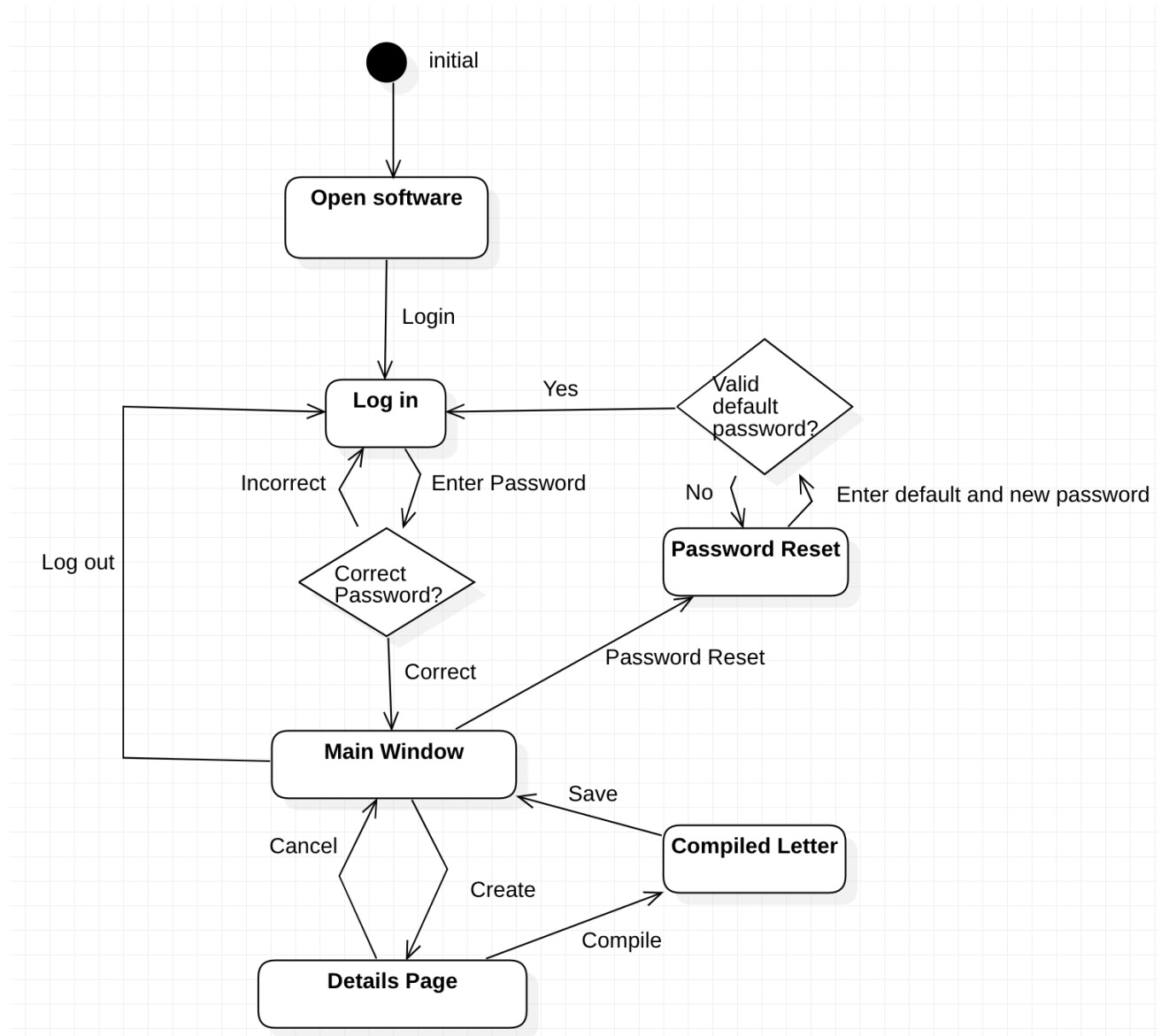


3.2 UML Sequence and/or State Diagrams

Sequence diagram for resetting and updating password in Database.



State diagram



3.3 Mockups

1. Log-in page

The mockup shows a web browser window with a dark gray title bar containing three colored window control buttons (red, yellow, green) on the left and the text 'Log in' on the right. The main content area has a light gray background. At the top, the text 'Recommend Easy' is displayed, with 'Recommend' in blue and 'Easy' in red. Below this, a subtitle reads 'A useful tool to auto generate letter of recommendations for your students'. A large, light red rectangular area contains the text 'Get started for free' centered at the top. Below this text is a label 'Password' followed by a white rectangular input field with a thin blue border. At the bottom of the red area is a solid blue rectangular button with the text 'Login' in white. The bottom section of the page is a light gray footer area.

2. Password reset window

Recommend Easy

Last step of the sign-up process

Default password

New password

Confirm new password

Status:

3. Home page

Main Window

Recommend Easy

Create a new letter

Create Letter

Search an existing letter

Enter Student's last name

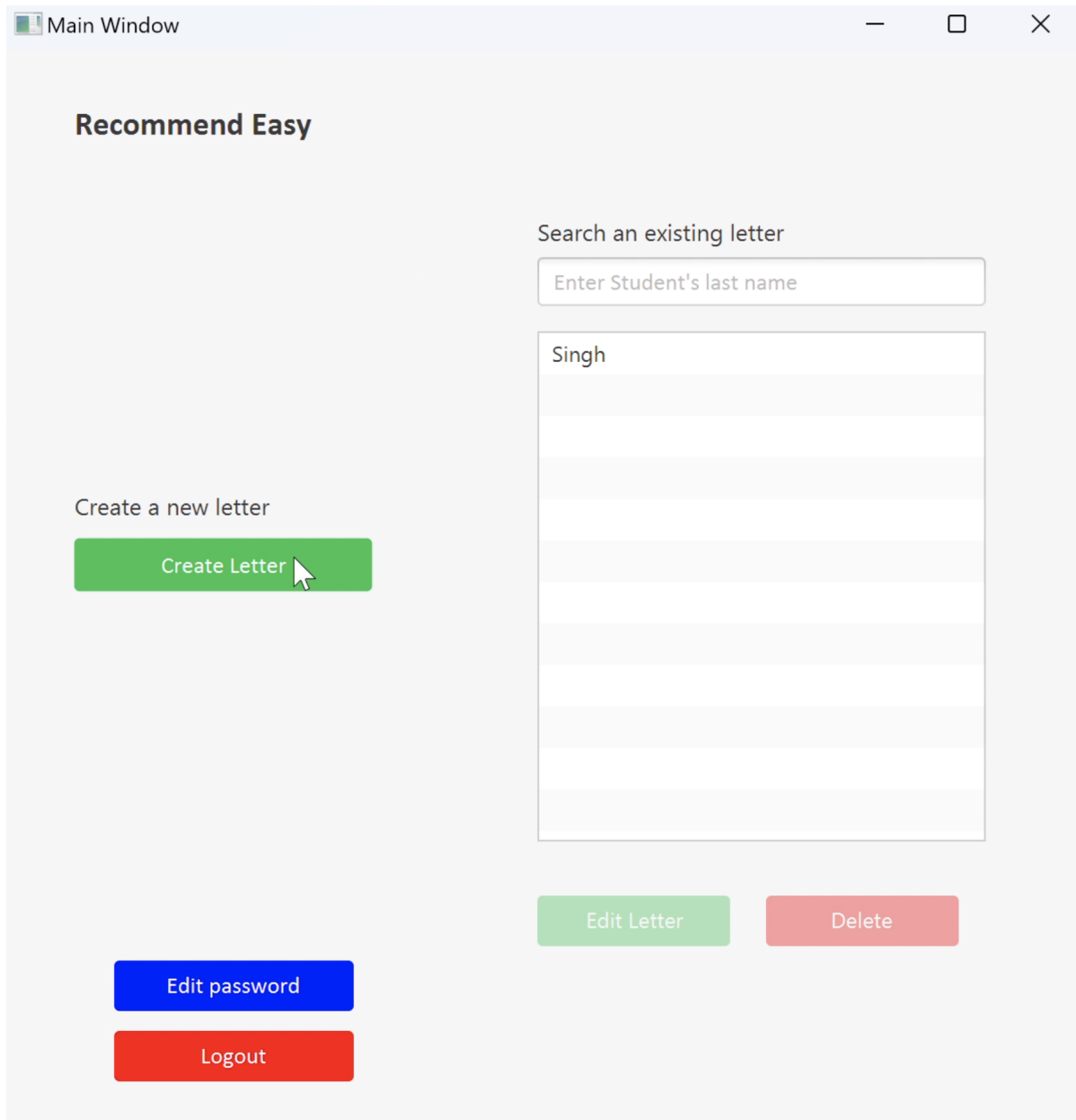
Singh

Edit Letter

Delete

Edit password

Logout



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

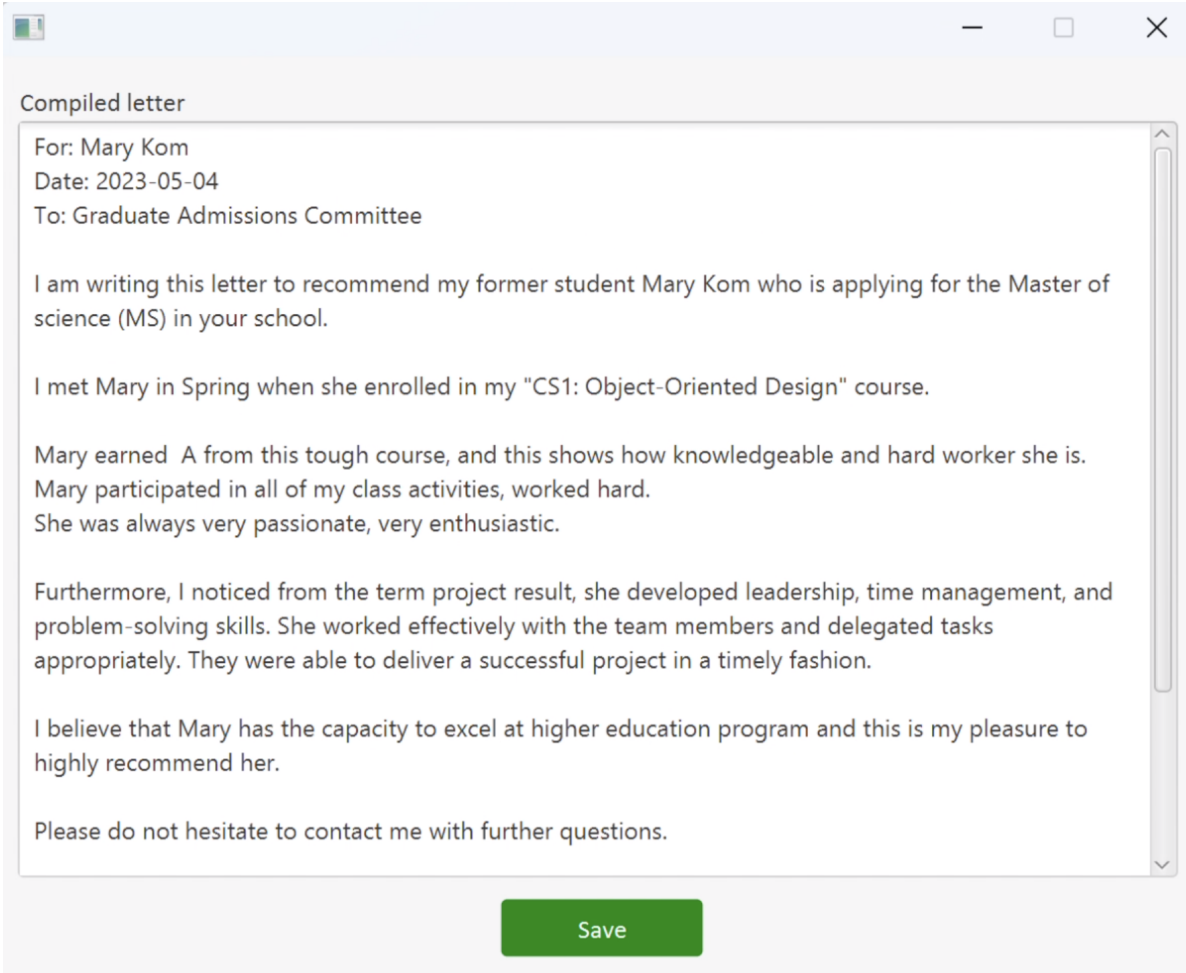
participated in all of my class activities

ADD

Compile

Cancel

5. Recommendation Preview

A screenshot of a web application window titled "Compiled letter". The window has a light gray header with standard window controls (minimize, maximize, close). The main content area is a white box with a vertical scrollbar on the right. It contains a letter draft for Mary Kom, dated 2023-05-04, addressed to the Graduate Admissions Committee. The letter text describes her performance in a "CS1: Object-Oriented Design" course, highlighting her academic achievement (A grade), participation in class activities, and leadership skills demonstrated in a team project. The letter concludes with a strong recommendation and an invitation for further contact. A green "Save" button is located at the bottom center of the window.

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