CS 250 Algorithms and Problem-Solving II – Project Proposal

Winona Safety Report System

Arvinder dhanoa
WSU CS department
Winona State University
Arvinder.dhanoa@go.winona.edu

SuengJun Jung
WSU CS department
Winona State University
Qa0233zv@go.minnstate.edu

Project Description

This project aims to implement a safety report system that aims to report incidents around the university. To achieve this, we propose to design a system that can send emails using templates that are filled in by the user. On top of this, if able, we wish to support multiple response types and not just emails.

Significance

This project is an important project for us to not only learn about java, but also to understand the design that goes into a system like the safety report system that our university uses. Our goal is to make a reliable, robust, piece of software that can function well, even if not used in practice.

Project Specification and Design

Four main steps in program development process include: specification, design, implementation and testing. Please write the first 2 steps here. You can refer to the lecture slides of Chapter 1. Specifically,

Step1: Specification which includes problem specification and problem decomposition.

It is important that students are aware of issues around their university as there are numerous incidents that happen across the year. These incidents can affect the well-being of the student body, and as such, for their physical as well as mental well-being. This a program that should work as required whenever information is put in, and should work reliably and consistently, even if at the cost of features.

Step2:
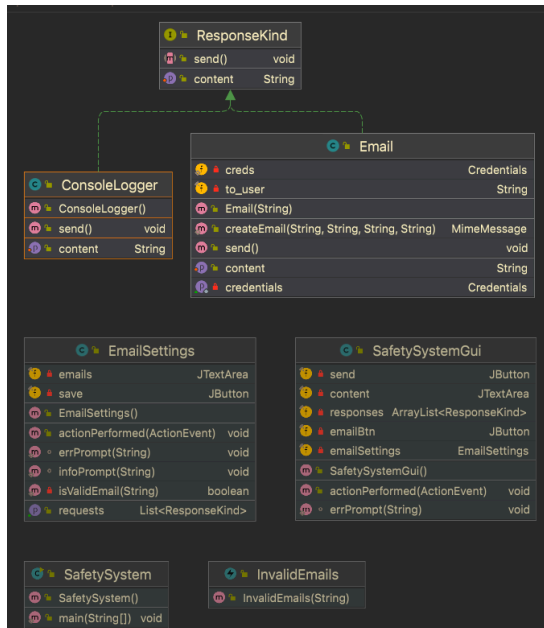
Project Flowchart
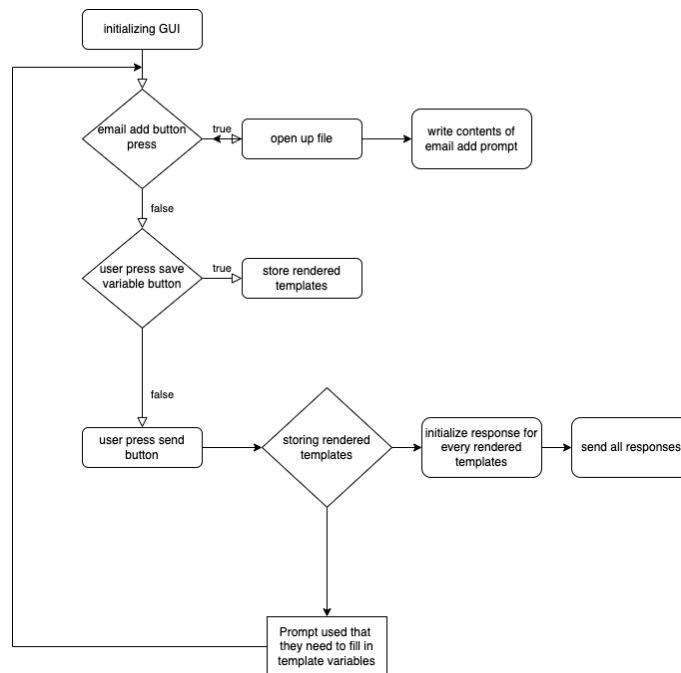
Data Acquisition

This information in this project can be obtained from the user.

User Documentation (or README)

Open the application, and click on the email settings button. Add your emails on this page, press the save button. Close the window, put in the contents of the message, in the main window's box, and press send.

Discussion and conclusion

Git is useful. We used it to merge our code and it made life pretty easy. We also used maven to manage our dependencies so we didn't have to do so ourselves. We had difficulty with the email through the google API, and we ended up having to switch to an SMTP library.

Project Timeline

Task	Time
(Schedule your own tasks below. Adjust it as time goes if needed.)	(Schedule your own time below. Adjust it as time goes if needed.)
1. Read related resources and write project proposal.	1/20 ~ 1/30
2. Prepare information/data and implement the skeleton code for the project.	1/30 ~ 2/10
3. Implement some classes or modules in the project. Write the project progress report.	2/10 ~ 2/20
4. Implement remaining classes or modules in the project.	2/20 ~ 3/1
5. Test the code using various test cases or inputs, implement the GUI if planned.	3/1 ~ 3/10
6. Prepare the final submission of code, report file and final presentation PPT.	3/10~ 3/20

References (if any)