

## **Final Project CS3B**

### Requirement Document

We will ask the user if they want to sign in or sign up first. Let's say it's a new user, so after they click the sign up button, they will be asked about their personal information such as their student ID, email, their first and last name. Every frame has a continue button on it, so after they click the continue button, they will be asked the department they wanted. If they click on the Computer Science department, we will then open the question and answer the file corresponding to the choices. After that, there will be another frame that will prompt the user whether the user wanted to ask general questions or make an appointment. In the general question frame, the user will then type in their question. If the question is the exact match as in the question stored in the question file, then the program will automatically output the exact answer corresponds to the question. If it doesn't match, then the program will take the keywords from the user's question and then give 4 suggestions of the possible question based on the keywords from the question file. Then if the user clicks on the possible question then the program will output the answer. Then we will append the user's question to the file so that the next time the user asks that exact question we will then just output the answer. Another action the user can do is making an appointment with the faculty or the dean. The program will show the user the available office hour time and the user can choose which time they wanted to make an appointment.

CRC Cards

Abstract GeneralQuestion	
Remove unnecessary character	GeneralQuestionCS and GeneralQuestionMath
Remove useless words from user's question	GeneralQuestionCS and GeneralQuestionMath
Compare keywords with file sentence	GeneralQuestionCS and GeneralQuestionMath
Find exact question	GeneralQuestionCS and GeneralQuestionMath
Find the exact answer	GeneralQuestionCS and GeneralQuestionMath
Find guess answer	GeneralQuestionCS and GeneralQuestionMath
Read File	GeneralQuestionCS and GeneralQuestionMath
Append original question for machine learning	GeneralQuestionCS and GeneralQuestionMath

GeneralQuestionCS	
Remove unnecessary character	
Remove useless words from user's question	
Compare keywords with file sentence	
Find exact question	
Find the exact answer	
Read file	
Find guess answer	
Append original question for machine learning	

GeneralQuestionMath	
Remove unnecessary character	
Remove useless words from user's question	
Compare keywords with file sentence	
Find exact question	
Find the exact answer	
Read file	
Find guess answer	
Append original question for machine learning	

SignUp	
Store ID	
Store email	
Store first name	
Store last name	
Write information to file	

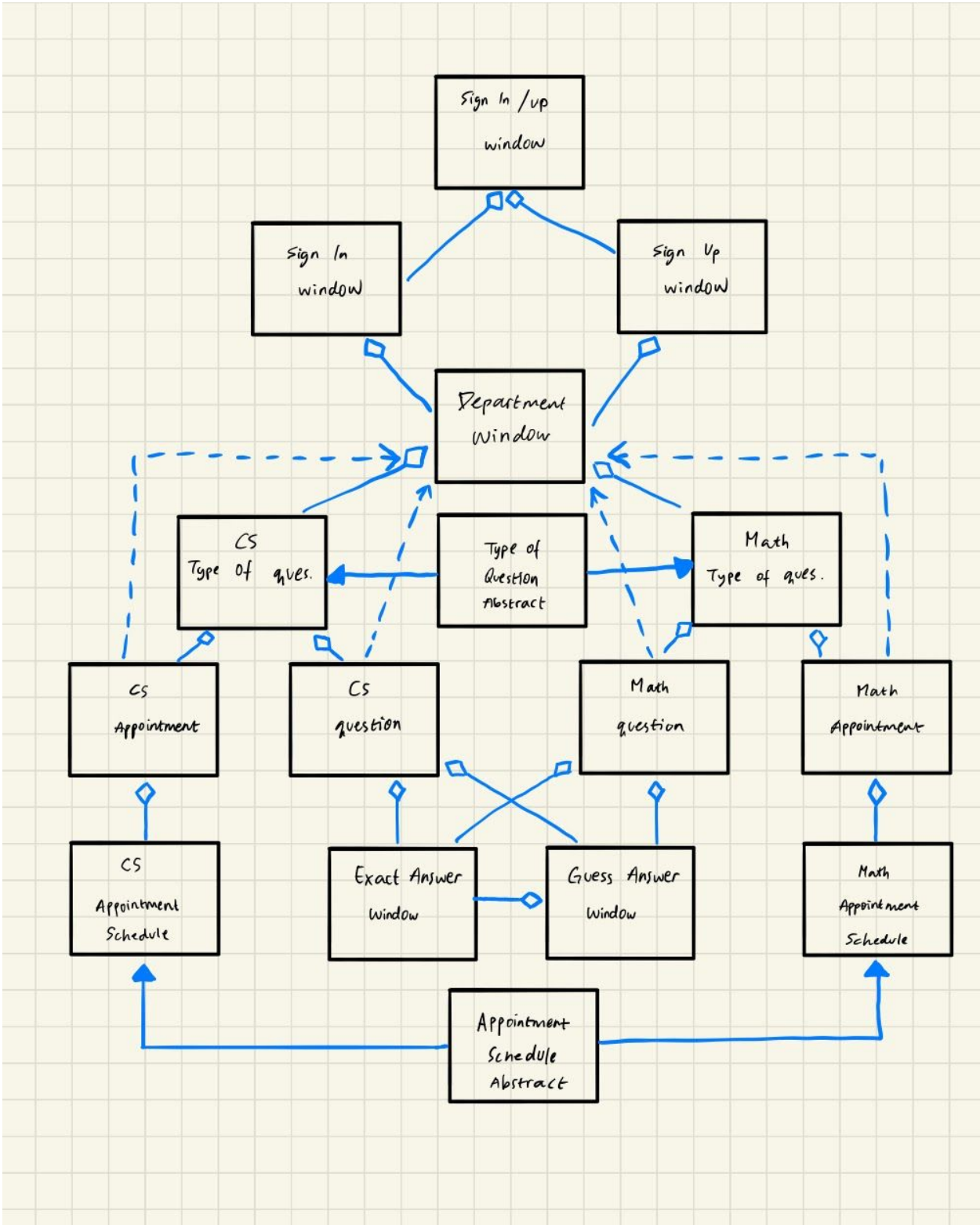
SignIn	
Get ID	
Verify ID	

Abstract Appointment	
Write to file the user's appointment time	AppointmentCS and AppointmentMath
Read and check the file to see appointment	AppointmentCS and AppointmentMath

Appointment CS	
Write to file the user's appointment time	
Read and check the file to see appointment	

Appointment Math	
Write to file the user's appointment time	
Read and check the file to see appointment	

UML



JavaDoc Screenshot

This is one of the screenshot from GeneralQuestionCS class

PACKAGE

CLASS

USE

TREE

DEPRECATED

INDEX

HELP

ALL CLASSES

SUMMARY: NESTED | FIELD | CONSTR | METHOD

DETAIL: FIELD | CONSTR | METHOD

SEARCH:

Class GeneralQuestionCS

java.lang.Object

GeneralQuestion

GeneralQuestionCS

public class GeneralQuestionCS  
extends GeneralQuestion

Constructor Summary

Constructors

Constructor	Description
GeneralQuestionCS(java.lang.String question)	

Method Summary

All Methods

Instance Methods

Concrete Methods

Modifier and Type	Method	Description
void	appendQuestionMachineLearning(java.lang.String userQuestion, int guessAnswerIndex)	
java.util.ArrayList<java.lang.String>	checkKeywordsWithQuestionFile()	Method to check the keywords (parsed final question) with the question file keywords

Domain/Range

Variable Name	Domain	Range
questionUserKeywords	ArrayList<String>	Size of keywords
IDNumber	Integer	
firstName	String	
lastName	String	
email	String	
exactAnswer	String	
uselessWord	ArrayList<String>	Size of useless word file content
dayList	ArrayList<String>	Size of day content
timeList	ArrayList<String>	Size of time content
FileNotFoundException	Exception Handling	File does not exist in path
IOException	Exception Handling	Failure during reading file