



TutorTools

Prepared for: CSCI/CMPE 3340
Software Engineering I

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Software Engineering Code of Ethics and Professional Practice

1. Public. Software engineers shall act consistently with the public interest.
2. Client and employer. Software engineers shall act in a manner that is in the best interests of their client and employer, consistent with the public interest.
3. Product. Software engineers shall ensure that their products and related modifications meet the highest professional standards possible.
4. Judgment. Software engineers shall maintain integrity and independence in their professional judgment.
5. Management. Software engineering managers and leaders shall subscribe to and promote an ethical approach to the management of software development and maintenance.
6. Profession. Software engineers shall advance the integrity and reputation of the profession consistent with the public interest.
7. Colleagues. Software engineers shall be fair to and supportive of their colleagues.
8. Self. Software engineers shall participate in lifelong learning regarding October 1999 85 Software Engineering Code of Ethics and Professional Practice the practice of their profession and shall promote an ethical approach to the practice of the profession.

What is TutorTools?

- ▶ TutorTools is a database driven JavaFx application to store data for tutor programs.
- ▶ TutorTools allows users to add and edit information for students, tutors, and tutoring sessions, and give a visual organization of the collected information.
- ▶ TutorTools allows users to request tutoring for specific subjects and tutors.
- ▶ TutorTools allows users to submit data once it has been checked making accurate the end time and date of tutoring sessions.

Who is going to use TutorTools?

- ▶ The main type of users that will interact with TutorTools are tutor programs within schools considering, they are managed by a supervisor, they have working tutors, and students that attend sessions.
- ▶ Students are able to input information to request tutoring and are able to see a list of other students requesting tutoring
- ▶ Tutors are able to modify information of tutoring sessions and some information of students.
- ▶ Supervisor are able to add students and tutors, and modify their information.

Local and Global Impact

- ▶ Help schools tutoring programs with management of data.
- ▶ Reduce complexity of saving information for tutoring sessions.
- ▶ Provide visual compilation of data to give feedback for future improvements.
- ▶ Provide programs with a tool to track tutoring sessions.

Goal

- ▶ To provide tutor programs an application with an easy way to manage and save data.
- ▶ Help Increase amount of students that participate in tutor programs with easy access to their preferred tutors.

Layered Architecture

Components of our project were divided into horizontal layers, each performing a specific role within the application.

- ▶ **Presentation** - responsible for presenting the user-interfaces to the end-user.
- ▶ **Persistence**- responsible for the technical stuff(e.g. retrieving information from database, or sending it to the presentation layer).
- ▶ **Database**- responsible for organizing and containing all the information needed.

Product Functions

▶ **Login Security**

- ▶ The ability to authorize/deny access using unique username and password.

▶ **Database Connectivity**

- ▶ The ability to connect to a database to create, modify, and delete data.

▶ **Email Service**

- ▶ The ability to send announcement to the student and tutors through email.

▶ **Session Creation**

- ▶ The ability to create new sessions for students.

▶ **Information Management**

- ▶ The ability to register a student/tutor information, modify, and delete their information.

Logical Database Requirements

A Database (SQL) is used for the storage of information inputted to the application. The Software ask for certain fields of input that match the fields in the database as rows and columns. The information is identified using the ID numbers as an identifier. Information of students, tutors, and supervisor are called from the database and shown into the application.

Members

Members:

- ▶ Bethsua Martinez
- ▶ Luis Selvera
- ▶ Kenneth Segarra
- ▶ Elyvic Cabais

Responsibilities

- ▶ **Student Views**

- ▶ Elyvic Cabais

- ▶ **Tutor Views**

- ▶ Bethsua Martinez

- ▶ **Supervisor Views**

- ▶ Kenneth Segarra

- ▶ **Database**

- ▶ Luis Selvera

Backlog Items

Login

Login

- Users login with username and password



- ▶ **Student List**
 - ▶ Add Session
- ▶ **Returning Student**
 - ▶ Subject
 - ▶ Tutor
- ▶ **New Student Sign-In**

- ▶ **New Student Sign-In**
 - ▶ ID Number
 - ▶ Name
 - ▶ E-mail
 - ▶ Phone Number

[illegible]

Sign-In

ID Number

123

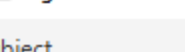
First Name

Last Name

E-Mail

Phone Number

Submit



Sign-In

Subject
Computer Science

Tutor
Luis

Submit

▶ Tutor's Session

- ## ▶ Tutor's Session
- ▶ Modify Student Information
 - ▶ Delete Student From Session
 - ▶ Search Student

[illegible]

Supervisor Scene

► Supervisor Menu

- Modify Student/Tutor Information
- Delete Student/Tutors
- Search Student/Tutor

Supervisor

TutorTools

E-Mail Activity Log Back Log Out

Student

Search Ex. ID, First Name, Last Name Student Search

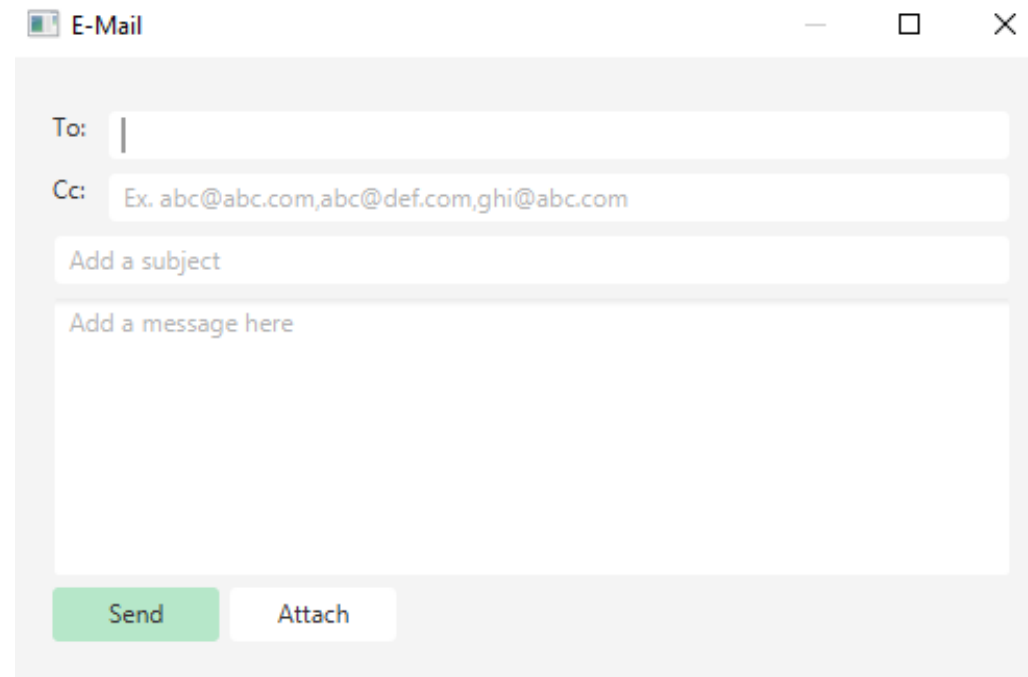
ID	First Name	Last Name	Email	Phone
3333	andre	gignac	andre@gmail.com	512
4546	Elyvic	Cabais	elyvic.cabais@aol.com	956-889-988
7656	John	Wilson	john@gmail.com	(454) 342-4356
12345	luis	selvera	luis.selvera@aol.com	512-345-6789
43567	pablo	pablo	pablo1@aol.com	9568885566
88888	luis	selvera	gmail	512
98097	monica	revuelta	monica.revuelta@utrgv.edu	956-882-0000
98098	kjklj	lkj	lkj	lkj
99999	luis	selvera	luiselvera@aol.com	809809

Add Delete Modify

Email

► Announcement

- Send announcement for tutor or students
- Send attachments



A screenshot of an 'E-Mail' composition window. The window has a title bar with a small icon, the text 'E-Mail', and standard window controls (minimize, maximize, close). The main area contains four input fields: 'To:' (empty), 'Cc:' (containing the example text 'Ex. abc@abc.com,abc@def.com,ghi@abc.com'), 'Add a subject', and 'Add a message here'. At the bottom, there are two buttons: a green 'Send' button and a white 'Attach' button.

E-Mail

To: |

Cc: Ex. abc@abc.com,abc@def.com,ghi@abc.com

Add a subject

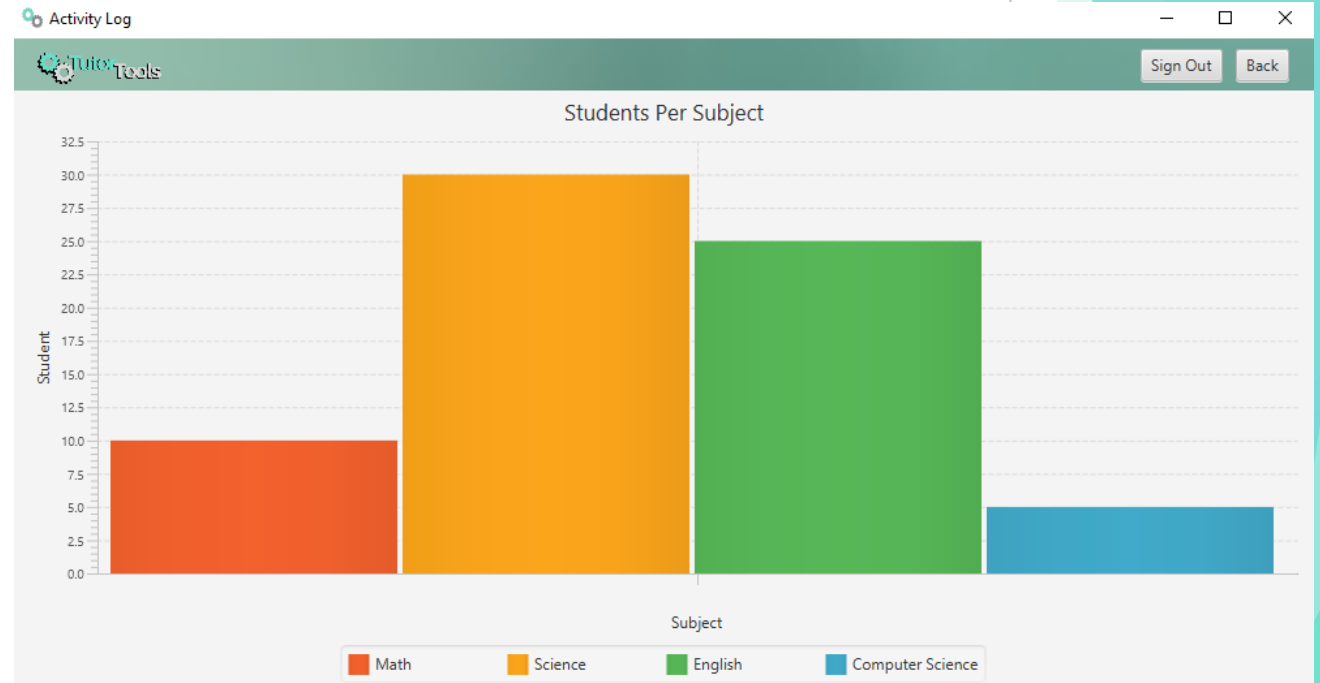
Add a message here

Send Attach

Activity Log

► Tutoring Activity

- Shows how many students per subject



Future Improvements

- ▶ Add option to create appointment with tutors
- ▶ Improve database
- ▶ Add more visuals to make application more appealing for users
- ▶ Be able to add notes in each sessions.
- ▶ Add a calendar with tutors schedule and other announcements

Conclusion

TutorTools is the ultimate tool for any tutor. This application software allows users to load tutor and student information with ease. Creating new session for each student that sign-in for tutors to then pick them out for their tutoring session. Tutor will be able to manage all of their students that sign in for their sessions. Supervisor will be the only user that will have the power to update information for both students and tutors. Of course as any other software, the process is still not over. We will continue to further develop and improve our software to make it the best there is.

The background features abstract, overlapping teal and light blue geometric shapes, primarily triangles and polygons, creating a modern, layered effect. The shapes are concentrated on the right side of the frame, with some extending towards the left.

Any Questions?



Thanks For Watching