

# **Tutron: A tutoring app Android Studio**

Final Project presented to  
Professor Wassim El Ahmar

SEG 2105  
University of Ottawa

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Molly Kanyatsi #200 123 978  
Arine Karapetyan #300 258 951  
Naomi Habte #300 228 315

**Short Introduction**

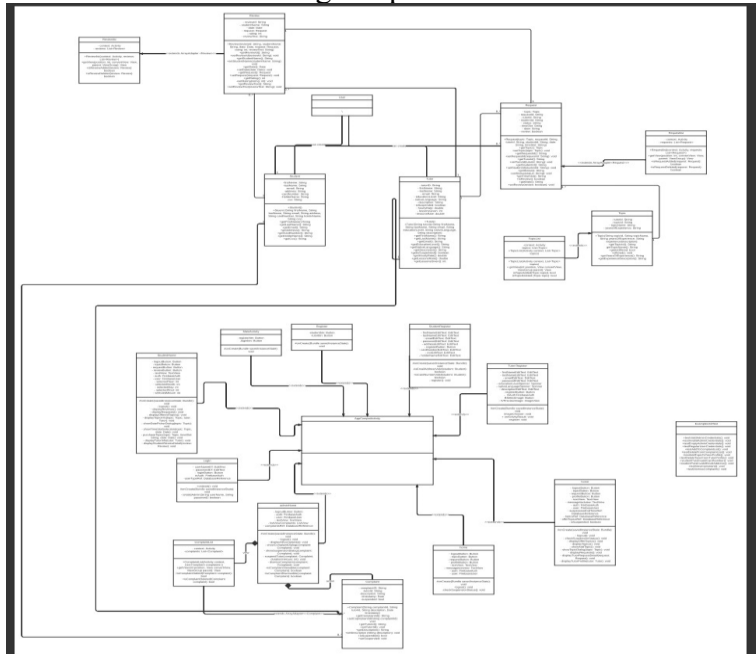
Tutron is an Ottawa based application that connects students with local tutors who can provide one-on-one tutoring services. This application supports three types of users, tutors, students, and administrators. Tutors can log in, offer tutoring services, and set their own availability and pricing. Students are users who seek tutoring services and search for and book sessions with available tutors through the app. And, finally, administrators are users who manage the application and handle any issues or disputes that may arise between tutors and students. The administrator has a pre-set username and password.

#### Administrator information

- Username: admin@4code.com
- Password: 4code4code

#### **Updated UML Class Diagram**

Please see the UML Diagram pdf in the folder for details.



#### **Contribution Table**

##### Deliverable 1

<b><u>Task</u></b>	<b><u>Contributor</u></b>
Student/Tutor account	Zhema Wen
Welcome Screen	Molly Kanyatsi
UML Class Diagram	Arine Karapetyan
Field validation	Naomi Habte
Minor code improvements	Everyone

#### Deliverable 2

<b><u>Task</u></b>	<b><u>Contributor</u></b>
Complaint List	Zhema Wen
Tutor Suspension	Zhema Wen
Tutor suspension message	Zhema Wen
Aesthetic Code improvements	Molly Kanyatsi
Unit Tests	Naomi Habte
UML Class Diagram	Arine Karapetyan
Minor code improvements	Everyone

#### Deliverable 3

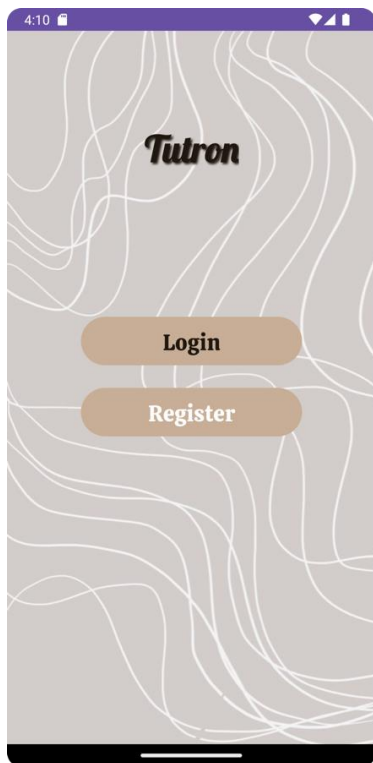
<b><u>Task</u></b>	<b><u>Contributor</u></b>
Tutor add/delete topic to profile	Zhema Wen
Tutor add/remove topic to offered topics list	Zhema Wen
Suspension message	Zhema Wen
Aesthetic Code improvements	Molly Kanyatsi
Unit Tests	Naomi Habte
UML Class Diagram	Arine Karapetyan
Minor code improvements	Everyone

#### Deliverable 4

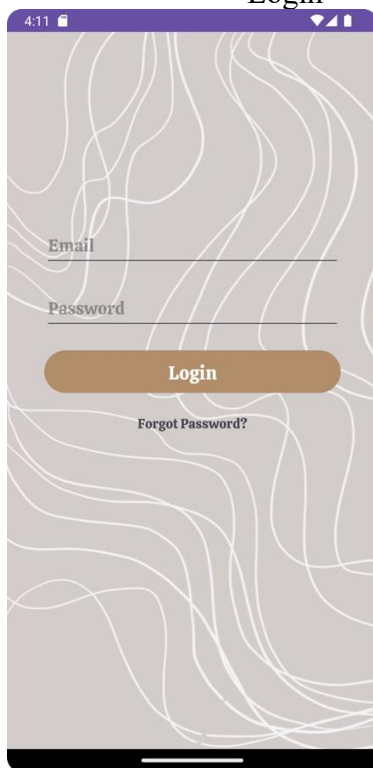
<b><u>Task</u></b>	<b><u>Contributor</u></b>
Student can submit a complaint/request	Zhema Wen
Student can view Tutor profile and rate lessons	Zhema Wen
Student can view their request	Molly Kanyatsi
Tutor can view and approve/reject requests	Arine Karapetyan
Tutor profile and rating	Arine Karapetyan
Search Topic and Sort	Molly Kanyatsi
Unit Tests	Naomi Habte
UML Class Diagram	Arine Karapetyan
Final Report	Naomi Habte
Minor code improvements	Everyone

#### **Screen Shots of the app**

- Enter App



- Login



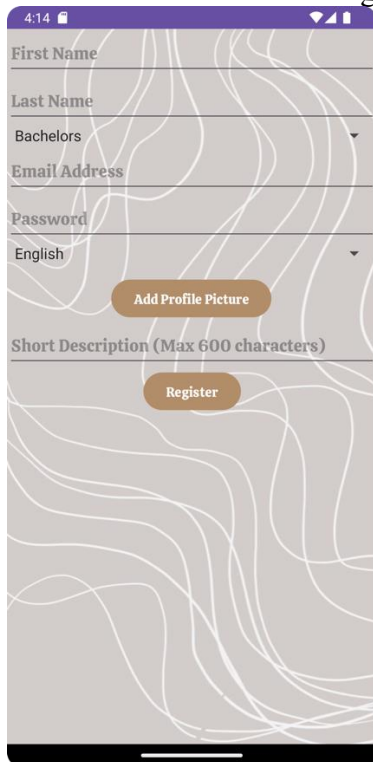
- Student home



- Student Register

A mobile app screenshot of the 'Student Register' screen. The background is a light gray with a white wavy line pattern. The screen contains a registration form with the following fields: 'First Name', 'Last Name', 'Email Address', 'Password', 'Address', 'Card Number', 'Cardholder Name', and 'CVV'. Each field is represented by a horizontal line with a light gray placeholder text. Below the 'CVV' field is a brown 'Register' button with white text. At the bottom of the screen, a keyboard is visible with a search bar containing 'DatabaseRef...' and a microphone icon. The keyboard has a standard QWERTY layout with a blue arrow key on the right.

- Tutor Register



A mobile app interface for tutor registration. The background is a light gray with a white abstract line pattern. The form consists of several input fields: 'First Name', 'Last Name', a dropdown menu with 'Bachelors' selected, 'Email Address', 'Password', and another dropdown menu with 'English' selected. Below these is a brown button labeled 'Add Profile Picture'. At the bottom is a text area for 'Short Description (Max 600 characters)' and a brown 'Register' button. The top status bar shows the time 4:14 and battery level.

4:14

First Name

Last Name

Bachelors

Email Address

Password

English

Add Profile Picture

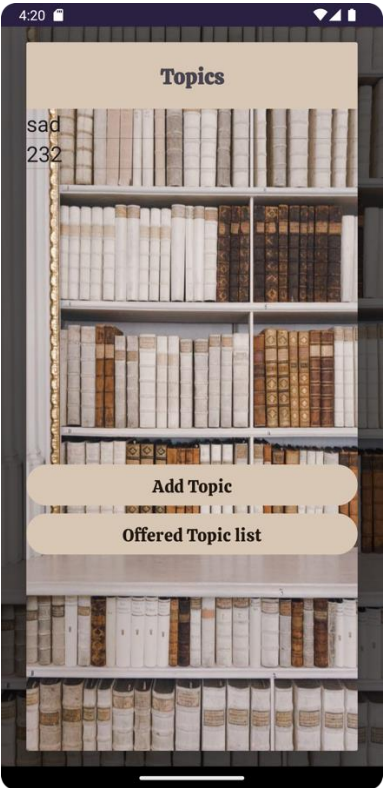
Short Description (Max 600 characters)

Register

- Tutor Home



- Tutor Topic List



- Add Topic

4:20

Topics

sad  
232

*Add Topic*

Topic Name

Years of Experience

Experience Description

*Add*

- Admin Home

4:12

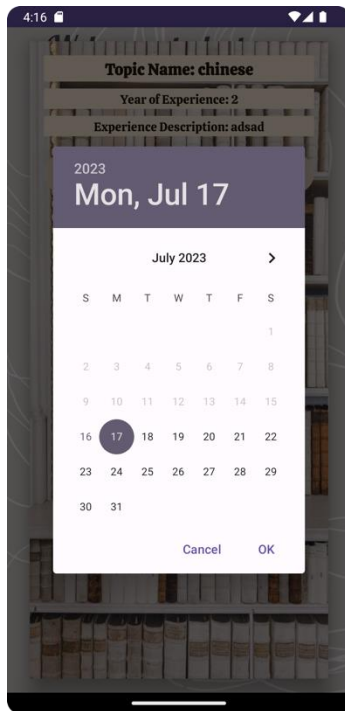
*Welcome admin*

Logout

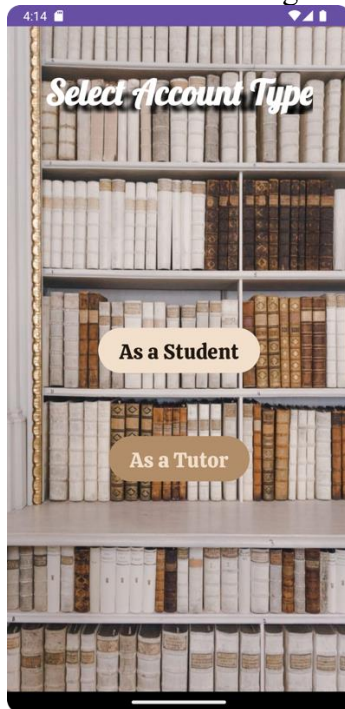
maikai@gmail.com  
New tutor registration complaint  
akara347@uottawa.ca  
New tutor registration complaint  
akara347@uottawa.ca  
New tutor registration complaint



- Purchase Student



- Register



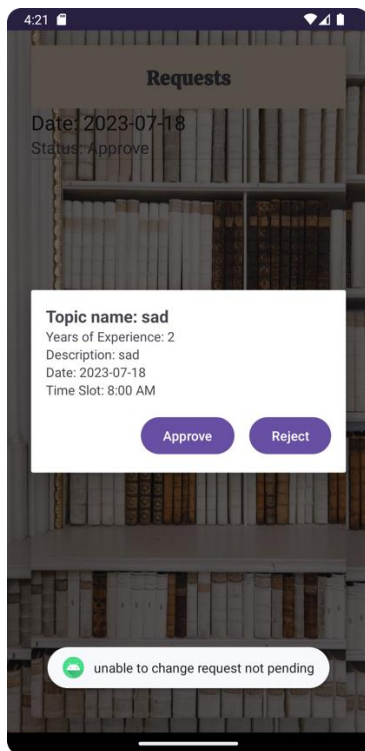
- Complaint Button



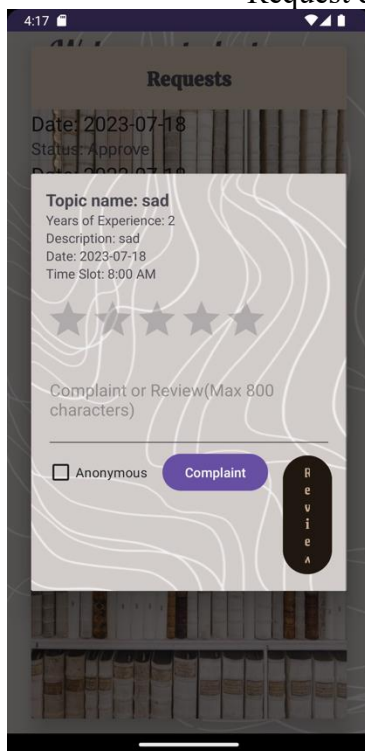
- Complaints



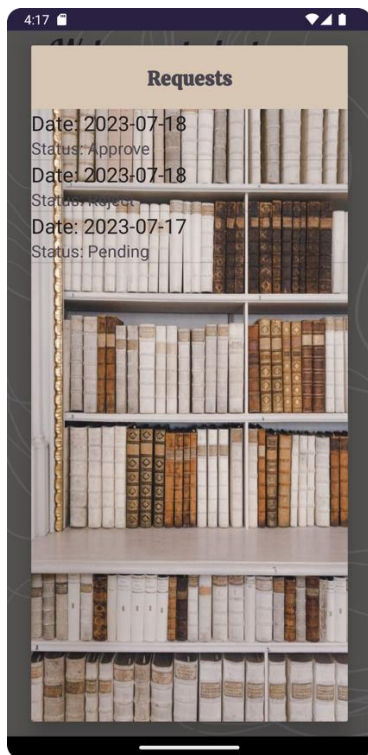
- Request detail tutor



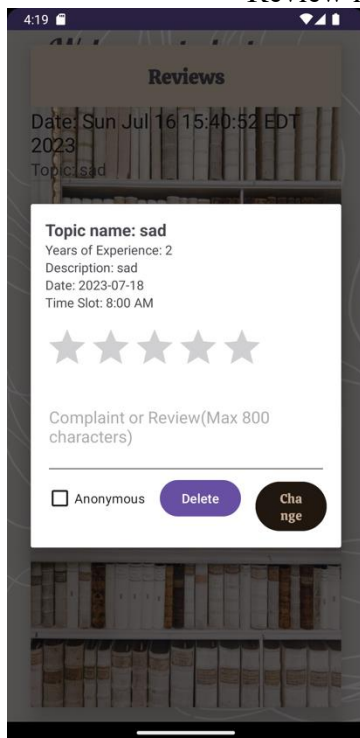
- Request detail



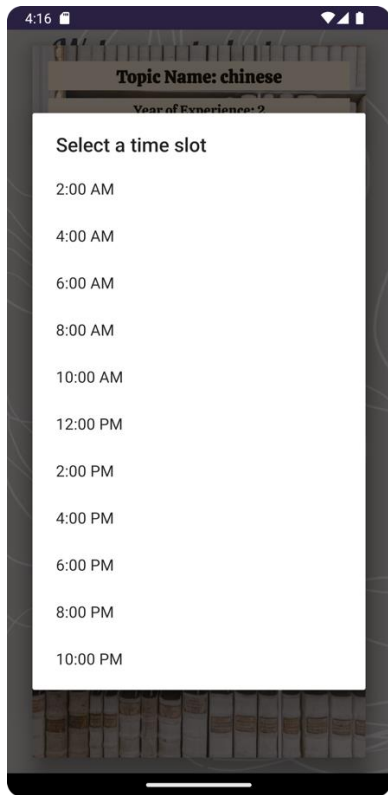
- Request student list



- Review list detail



- Timeslot student



- Topic Detail Student



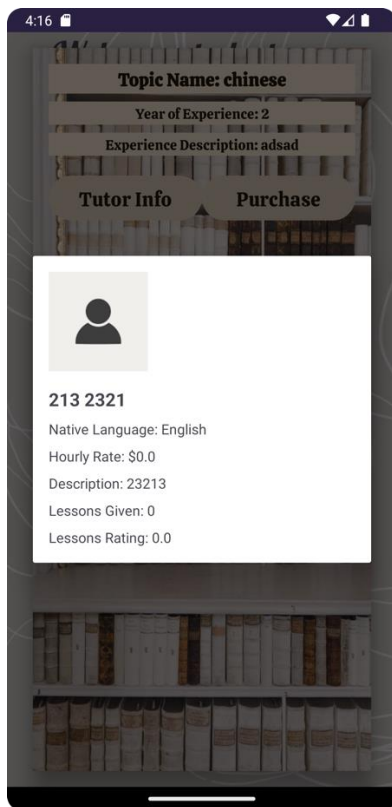
- Topic Detail Tutor



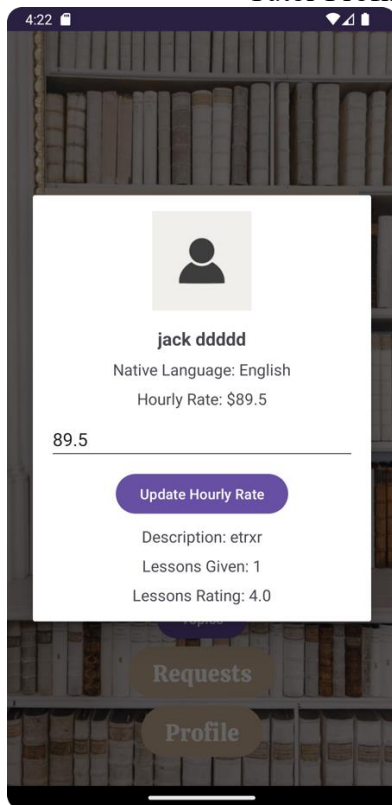
- Topic List Student



- Topic Tutor Student



- Tutor Profile



## **Lessons Learnt**

We learnt many lessons while working on this project. While developing this app, we learnt that it is important to manage your time. There were moments where we felt rushed to complete certain parts, which wouldn't have been the case if we had managed to delegate tasks and manage our time properly.

Another lesson we learnt is that unit testing is essential to the proper functioning of the app. They ensure the best quality for all methods. It allows us to catch errors before they become a problem and they allow us to gain greater control over our code.

Also, we learnt that perfection was not always the goal. For many deliverables, we felt like we wanted to go above and beyond. However, all the extra things you might feel compelled to add on to your code doesn't matter if your main functions don't work properly. We learnt that not everything needs to be perfect or above and beyond. If the app works the way that it needs to and the requirements are met, then it's okay.

To conclude, the creation of this app on android studio taught us the essentials of working dynamically in a team.