User guide: iFeel

This user guide will provide a step-by-step description of how to use the iFeel application.

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Set up

To start up iFeel, the user must navigate to folder './src/frontend/' and run the following commands in terminal

'npm i'
- This will install all needed dependencies for the application

Followed by
'npm start'
- This will run the application on a development server. This can then be run on an ios mobile device simulator or an ios mobile device.

Running on IOS device

The app can be accessed by scanning the QR code shown with an ios device camera after running these commands

Running simulated app from personal computer

The app can be run by pressing 'i' which will open an ios device simulator and the app can be used as expected from there.
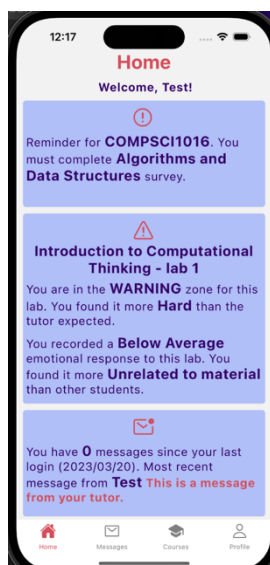
Logging in

To log in, the user is brought to the log in page. Here the user can log in with tutor credentials or student credentials.
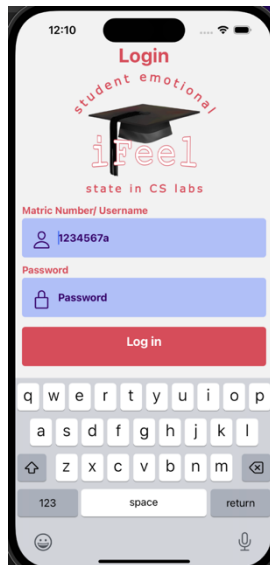
To log into a student account use
username : 1234567s and password : testpassword
To log into a tutor account use
username : 1234567t and password : testpassword

Logged in as Student

When logged in using student credentials, the student is taken to the student dashboard which looks as follows.

The dashboard displays a lab survey the user should respond to, responses to previous lab surveys and finally any messages since the last login.
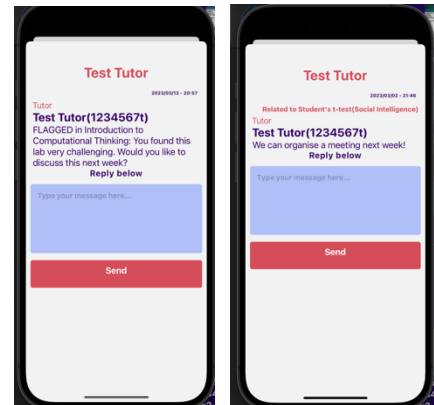
Messages - Student

Messages appear in a list ordered by the most recent. Students cannot freely send messages to tutors and as such they may only reply to messages in this list.
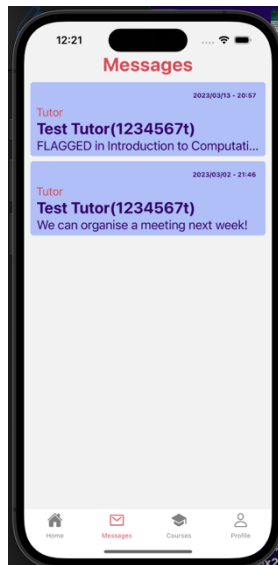
The left image shows how messages appear when the student opens their messages.

The image closest to the right shows the screen that appears once the student presses a message. Here they have the option to reply. This message will also show details of the lab it is related to if a tutor has sent a message in response to a student's risk zone in a survey, this is shown to the far right.

Replying to a message
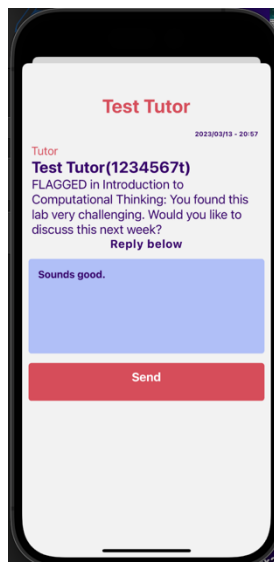
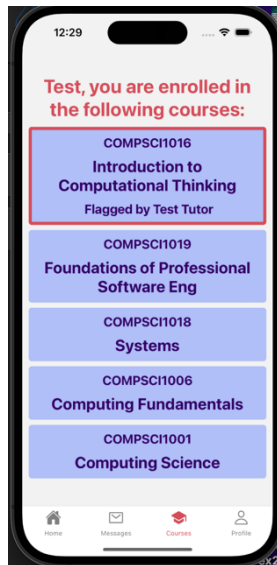Once a message is tapped, the student may type text in the text box and then press send. They will a receive an alert like the one below notifying them that the message has been sent.
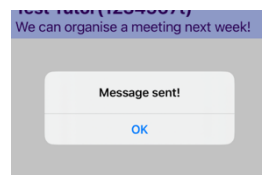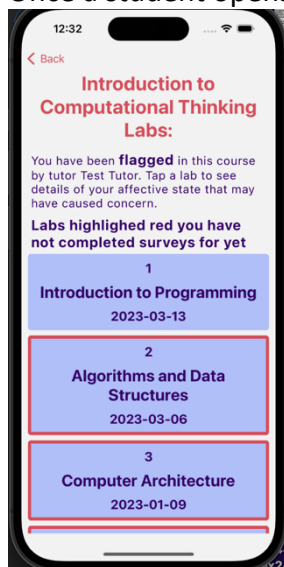

Courses - Student
Upon navigating to courses the student will be met with a screen like this
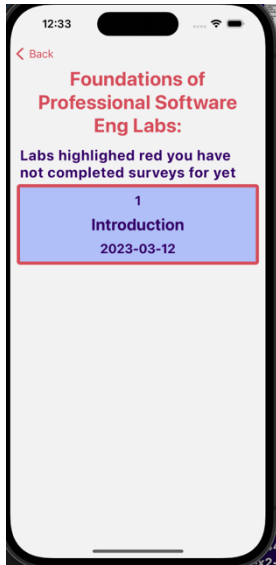
Opening a course

Flagged

Once a student opens a course they will be met with a screen like this, if they are flagged.
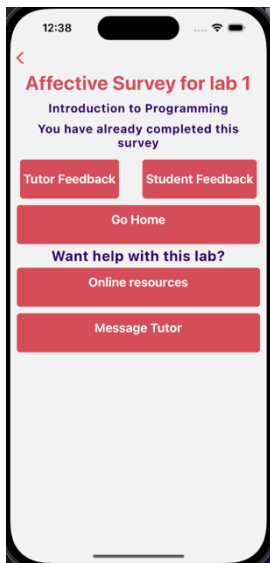
Not flagged

If a student has not been flagged, their labs page will appear like this.

Completing a survey

To complete a survey, a student will select a lab that is highlighted red from the labs list.

Survey already completed – not highlighted

If the survey has been completed, a screen like this one will be shown.

This screen allows a student to access tutor feedback, student feedback and a direct link to the dashboard.
If the student wishes to view the tutor feedback, with regards to set out risk zones, they can do so by selecting 'Tutor feedback'.

They can view student feedback, which refers to how other students found the lab and how this compares to their response, by pressing 'Student Feedback'
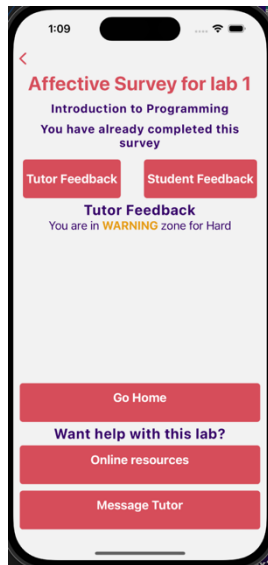
The left shows what will appear if Tutor feedback pressed. Risks recorded will appear in a list here, with zones highlighted in appropriate colours.
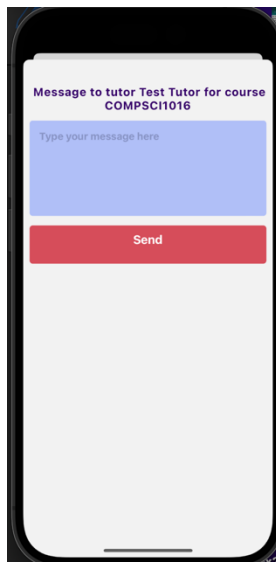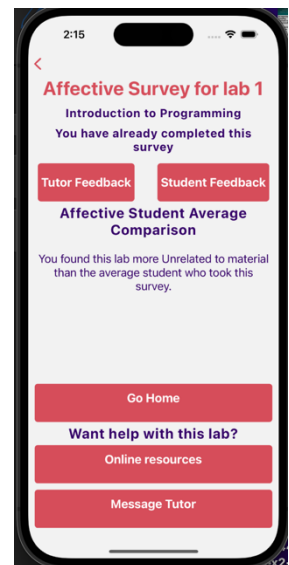
The right shows the student feedback by comparing the student's responses to questions to the average responses to these questions recorded by all students taking this course.

If the student was on any risk zones, help shows here. This includes online resources and messaging tutor.

If the student wants to message the tutor they can tap this button and a message pop up will appear. This will highlight the tutor for this courses name and the course code. Once a message is sent, the student will be navigated back to messages and receive the pop up seen below.

If the student qualifies to be automatically flagged, a pop up like the one on the right will appear.
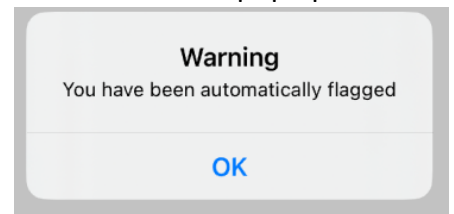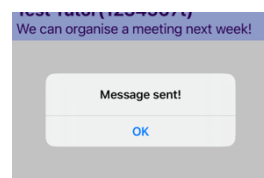
If a survey has not been completed yet, a screen like this one will show. To start the survey the student will press start survey.
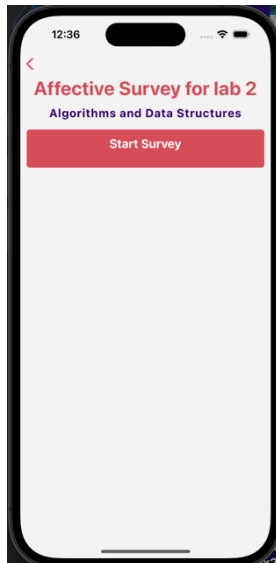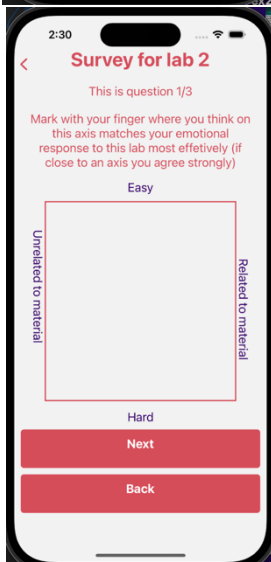

The student will be met by survey questions like this one. To answer a question, tap on the screen in the marked out area and press next. Alternatively they can move back and make changes to previous questions. There will be three questions.

The student will be navigated to the survey completed screen once the three questions have been completed. Once the Tutor feedback has been pressed, a screen like this one will be shown.
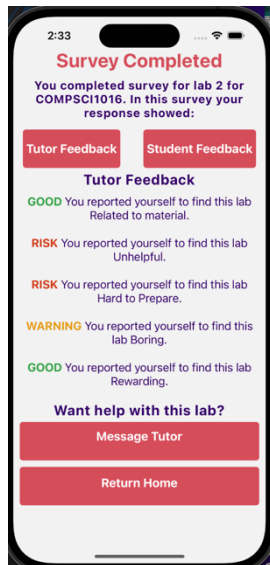
This screen will show a list of risks recorded and any axis' that did not cause any concern, as far as the tutor is concerned.

To see the student feedback, the student can press the student feedback button.

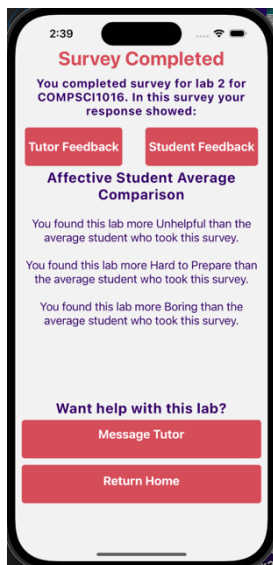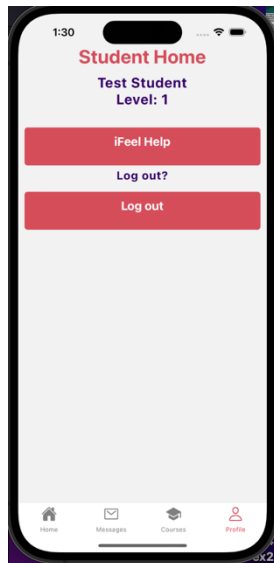The average comparison will show here as a list.

If the student has recorded some risk zones, the option to message the tutor will appear here. If there is online help related to this lab, a button that directs to this webpage will show.

Profile – Student
The student profile looks like this.

iFeel Help

If the user presses the 'iFeel Help' button they will be navigated to a webpage which will detail a guide of how to use the application
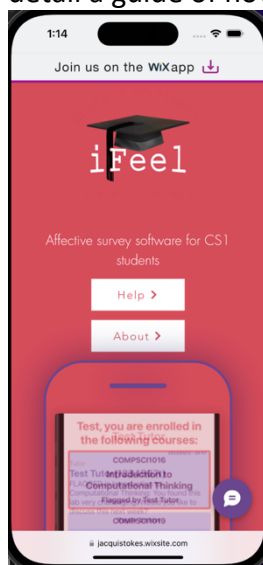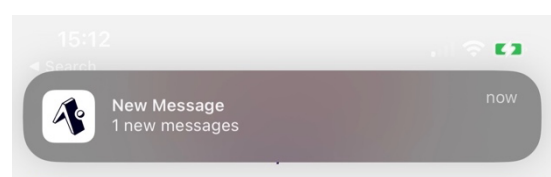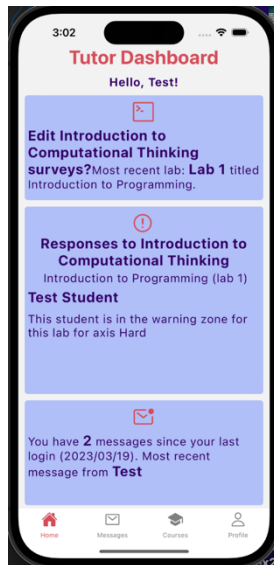

Log out

The 'Log out' button will log out the user and return to login page.

Logged in as tutor

Logging on to a tutor account will direct them to the tutor dashboard. Once logged in the user will also receive a notification counting recent messages.
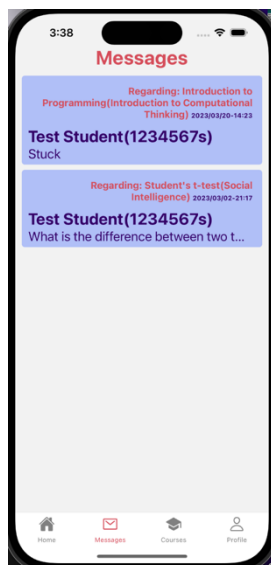
This is how the dashboard will appear. It shows the most recently occurring lab, the responses to most recently occurring lab, and any new messages.

Messages - Tutor

Messages appear in a list ordered by most recent.

The left image shows how messages appear when the tutor opens their messages.

The image to the right shows the screen that appears once the tutor presses a message. Here they have the option to reply. This message will also show details of the lab it is related to, if it is related to one. This is because students can choose to send a message to the tutor when they record a lower-than-expected response.
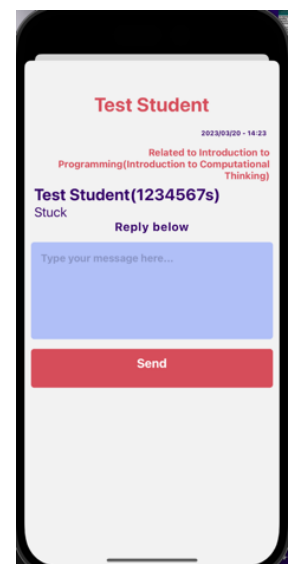
Replying to a message

Once the message is selected, the tutor may type text in the text box to reply and then press send. They will a receive an alert like the one below notifying them that the message has been sent.
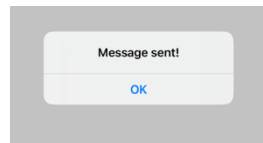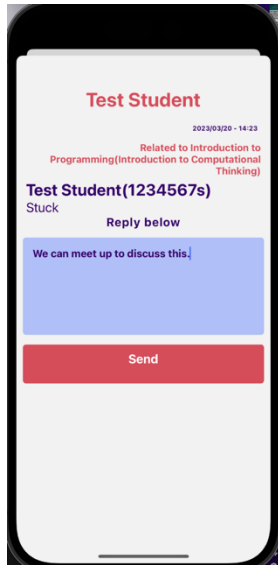
Courses - Tutor

Upon navigating to courses the tutor will be presented with a screen like the one on the right.
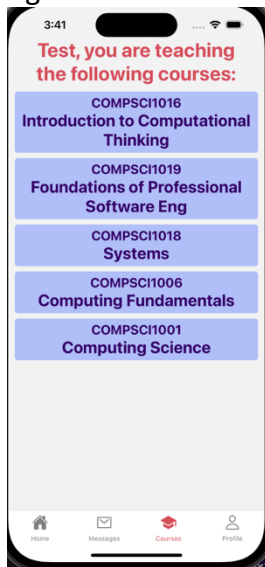
Following this, the tutor can tap any of the courses to view labs for the associated course.

Once a course is tapped a screen like the one seen on the right will appear.

Once an individual lab is pressed the tutor can see a list of responses recorded for that lab.
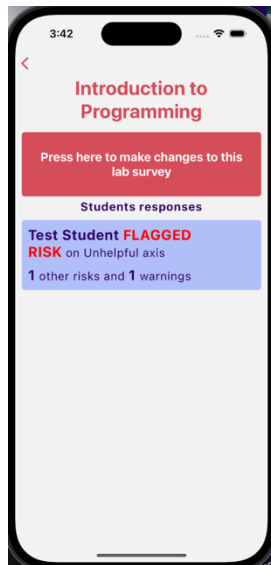
This can be seen on the left. Here, the students risks are presented in a readable way.

On this screen the tutor can also chose to edit the survey.

Survey Edit

If 'Press here to make changes to this lab survey' is pressed, the tutor is directed to a screen like this one, displaying the questions and axis connected to them.
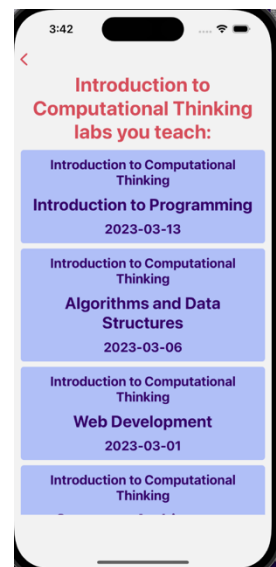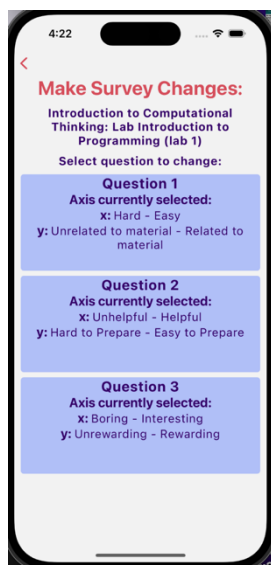

If one of the questions is pressed, the tutor will be redirected to an 'Editing Question' page which will allow the tutor to edit axis' connected to the survey question.
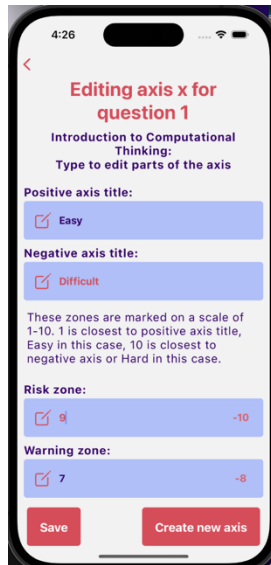
This is the screen that will show when an axis is being edited. If the tutor decided to change 'Hard' on negative axis to 'Difficult', like seen here, the tutor can press 'save' and this axis will be changed. This can be seen on the right.

The tutor can also create a new axis by selecting 'create new axis'.

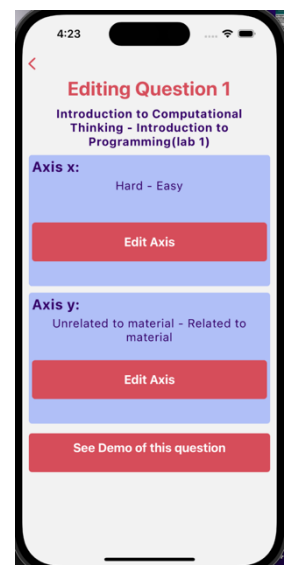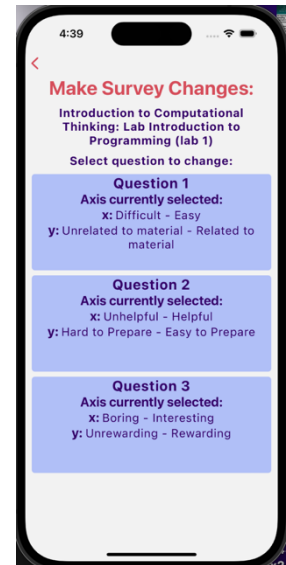If create new axis is pressed, the tutor can create a new axis for this question as seen on the left. Upon 'save' selected, the tutor is navigated back to the questions, with the updated axis.
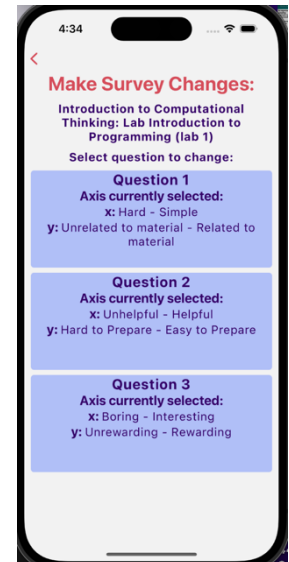
If a survey doesn't exist, the tutor will have the option to use default affective questions or to enter each question individually.

To see a demo of the question, press a question, and press 'See Demo of this question'. Once selected, the screen on the right will be shown.

Student Risks

If the bubble containing the student's name and risks is pressed, the tutor is directed to the students' risk page which will list all risks for this lab as well as their flagged status.
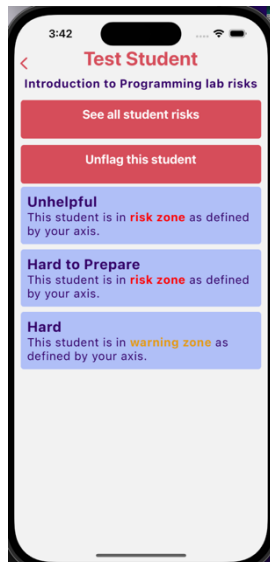
The tutor can unflag/flag the student here or move to all student risks which will display all of this student's risks for all labs they are enrolled in.
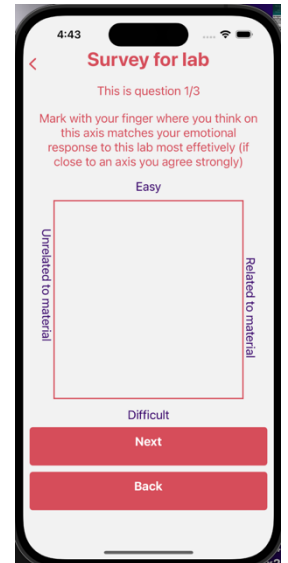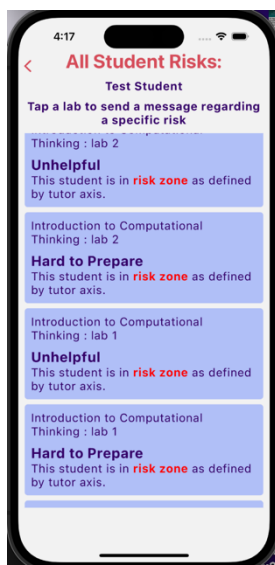
Pressing 'See all student risks' navigates the tutor to a page like the one seen on the left. If a tutor taps one of these risks, they are navigated to a new message pop up. This can be seen on the right. Once a message is typed and sent, the tutor is navigated back to messages after receiving a pop up.
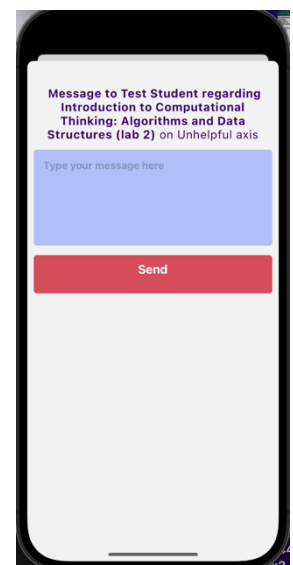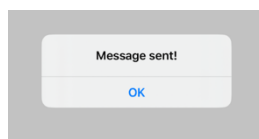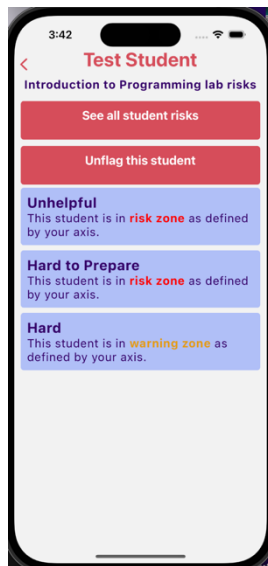
Manually Unflagging/Flagging Student

If the student is flagged, the tutor can press 'Unflag this student' and the tutor will be redirected to courses and the student will be unflagged.
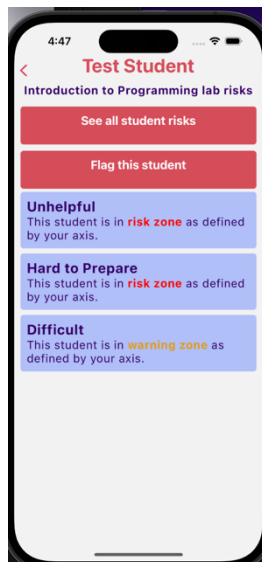
If the student is not flagged, the tutor can press 'Flag this student' and then they will be asked if they want to send a message with this flag like seen below. If the tutor presses no, they are redirected to the dashboard, otherwise they are given a message pop up like seen on the right.
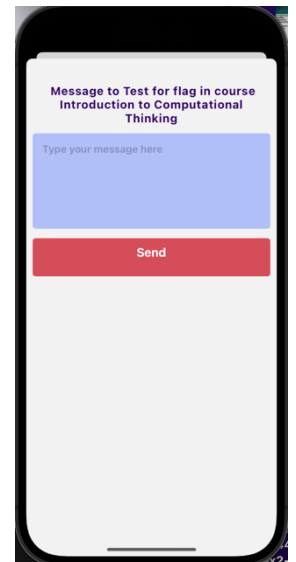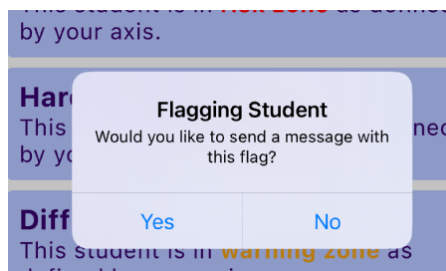
Profile – Tutor

The tutor profile looks like this.
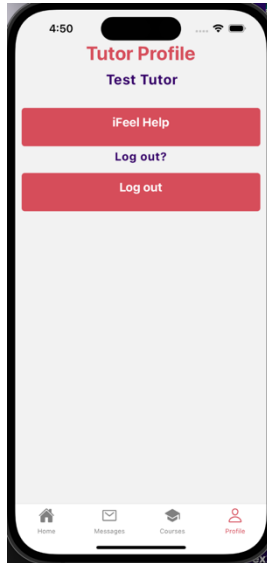
iFeel Help

If the user presses 'iFeel Help' button they will be navigated to a webpage which will detail a guide of how to use the application
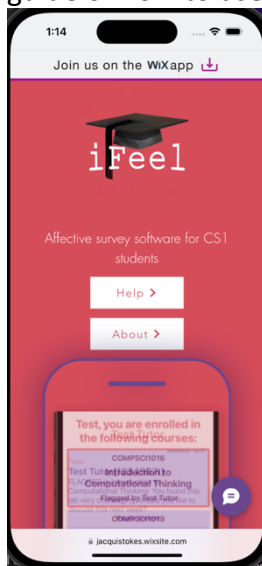
Log out

'Log out' button will log out user and return to login page.

Making Changes to the backend database

The backend database is hosted with railway (https://docs.railway.app/) online to allow users to use the application on their mobiles.

The backend can also be accessed by navigating to the './src/backend/' directory in the repository. From here the following commands can be run in a terminal:
- 'python -m pip install --upgrade pip'
- 'pip install -r requirements.txt'
- 'python manage.py runserver'

This is useful in the case the user wishes to make fundamental model changes to the database.

The admin site, accessible with the tutor account above with credentials
username : 1234567t and password : testpassword
Is hosted at https://app-production-1e3f.up.railway.app/admin

This page looks like so:

iFeel Admin Panel

Username: 2444030s
Password: ••••••••••
Log in

This provides access to all the objects registered in the database. The admin can create new users, new students, new tutors, new courses, new labs, and any others relevant to the application. This also allows any changes to be made.

This is the full list of tables that can be accessed by the admin.

Users   Add
          Db
Axis_averages   Add
Axis_labels   Add
Courses   Add
Labs   Add
Messages   Add
Questions   Add
Student_enrolls   Add
Student_lab_risks Add
Student_surveys   Add
Students   Add
Surveys   Add
Tutor_teachings   Add
Tutors   Add

Navigating to user, users can be added here and then appointed staff/ not staff.

- Add user

Search [   ] Search

Action: [--------- ▼] Go 0 of 2 selected

☐	**Username**	**Email address**	**First name**	**Last name**	**Staff status**
☐	**1234567s**	1234567s@student.gla.ac.uk	Test	Student	False
☐	**1234567t**	1234567t@glasgow.ac.uk	Test	Tutor	True

Add user

First, enter a username and password. Then, you'll be able to edit more user options.

Username: [   ]
Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only.
Password: [   ]

- Your password can't be too similar to your other personal information.
- Your password must contain at least 8 characters.
- Your password can't be a commonly used password.
- Your password can't be entirely numeric.

Password confirmation: [   ]
Enter the same password as before, for verification.

[Save] [Save and add another] [Save and continue editing]

If the admin wishes to add a new course they can do so as follows:

Opening course table and navigating to add course
- Add course

Action: [--------- ▾] [Go] 0 of 9 selected

	Id	Title	Level	Start date	End date
☐	COMPSCI408	Social Intelligence	4	Jan. 9, 2023	Jan. 9, 2023
☐	COMPSCI405	HCI	4	Jan. 9, 2023	Jan. 9, 2023
☐	COMPSCI401	Networked Systems	4	Sept. 7, 2022	Jan. 23, 2023
☐	COMPSCI1021	Practical Algorithms	1	Sept. 19, 2022	March 24, 2023
☐	COMPSCI1019	Foundations of Professional Software Eng	1	Sept. 11, 2022	Dec. 2, 2022
☐	COMPSCI1018	Systems	1	Sept. 12, 2022	Dec. 23, 2022
☐	COMPSCI1016	Introduction to Computational Thinking	1	Sept. 12, 2022	Dec. 23, 2022
☐	COMPSCI1006	Computing Fundamentals	1	Sept. 11, 2022	Dec. 2, 2022

Add course

Id: [   ]
Title: [   ]
Level: [   ]
Start date: [   ]
End date: [   ]

[Save] [Save and add another] [Save and continue editing]

This admin site is only intended to be used to add all details at the beginning of the academic year or semester. Once students, tutors, courses and labs are added alongside tutor teaching and student enrolments, the app will be fully functional and all of the rest of the additions in terms of surveys and questions can be made from the app.

All tables can be edited this way. This can also be done from the localhost (eg. http://127.0.0.1:8000/admin) if the user has run the code from their personal computer.

Using the population script
While the data in the population script is not meaningful and as such is unlikely to provide valuable insights into the use of the application, it can be used to see how mass data may appear in the application.

To run this script:

- Navigate to './src/backend/
- Delete 'db.sqlite3'
- Run 'python -m pip install --upgrade pip' in the terminal to install
- Run 'pip install -r requirements.txt'
- Run 'pipenv shell'
- Run 'python manage.py makemigrations'
- Run 'python populate_app.py'

To access all the users and the data populated, it is still possible to log in to the admin site from the user's local host with same tutor credentials:
username : 1234567t and password : testpassword