Getting started with MyComputerBrain

DIGITAL
TECHNOLOGIES
INSTITUTE

web: https://mycomputerbrain.net
email: enquiries@digital-technologies.institute

Background and History

- Heading up Digital Technologies Institute
- Research Director at SAP Australia & Asia-Pacific
- Father of 7 children
- Doctor of Computer Science (University of Queensland)
- Founder, Young ICT Explorers
- Founder, Bebras Challenge Australia
- Chief Nerd, MyComputerBrain

Certificates of Participation, Recording, Workshop Slides

Will be emailed by tomorrow mid-day

Agenda

- What is MyComputerBrain
- Philosophy, Pedagogy
- Key features
- As a Teacher
- As a Student
- Courses & Activities
- Our privacy commitment
- More features - SafeAI
- Roadmap
- Q&A

What is MyComputerBrain?

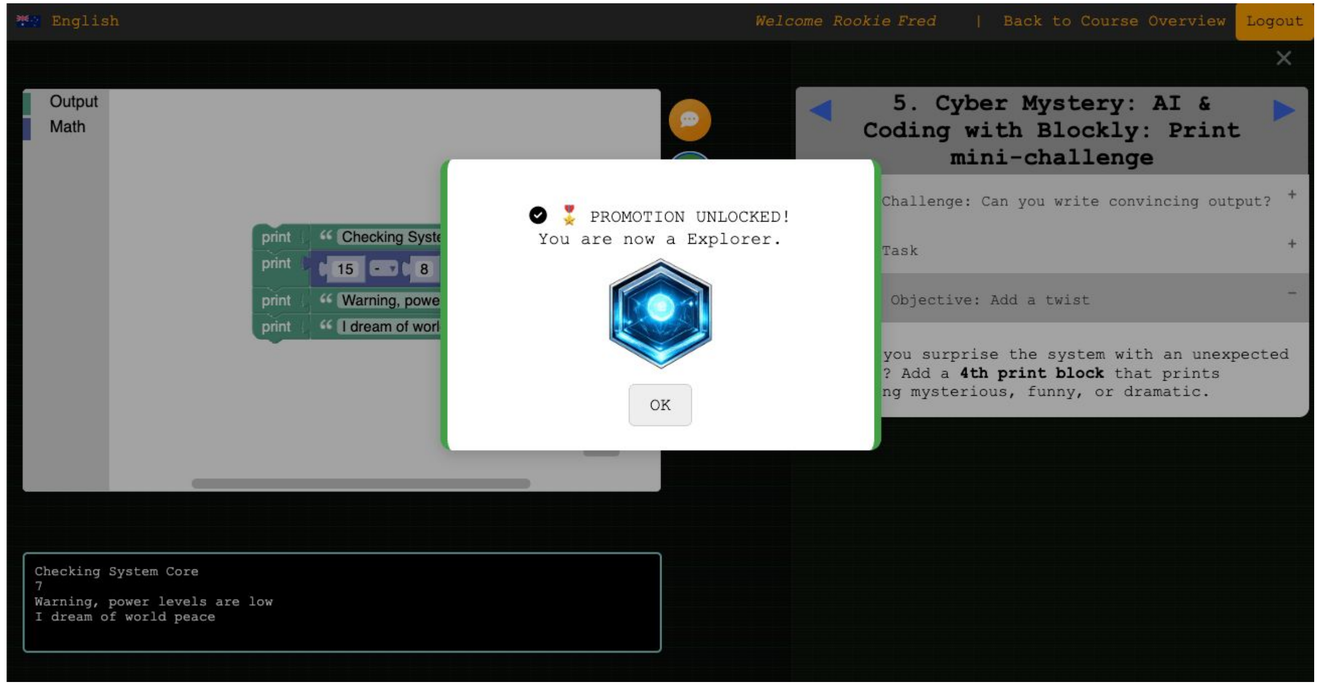
- Australian-made educational platform for primary and secondary schools
- Developing since 2017 to simplify the teaching and learning of Digital Tech, including digital systems, cybersecurity, artificial intelligence and coding.

Our philosophy

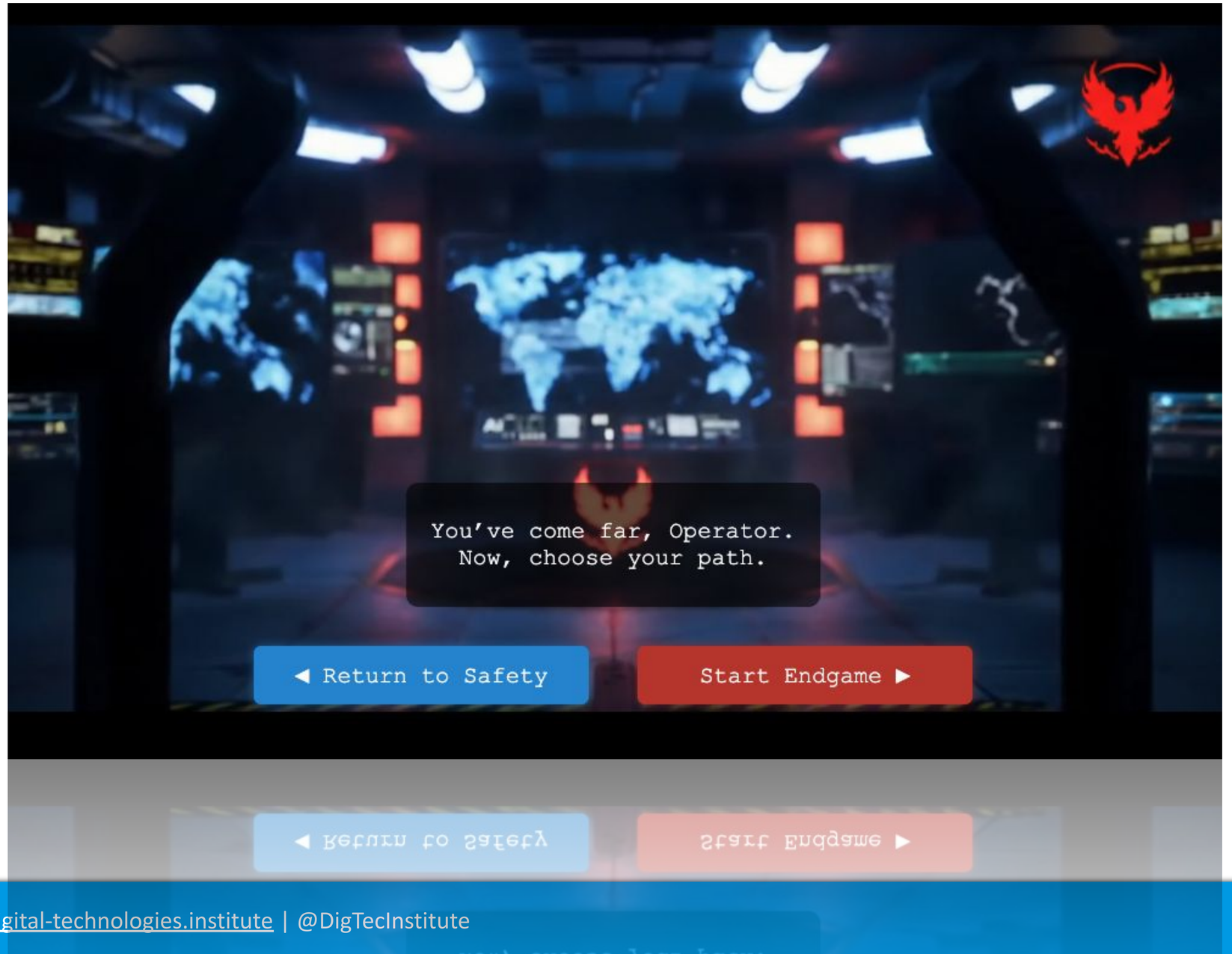
- Align with the learning styles of gens Z and Alpha, which are driven by gaming and social media.
- Complex content is best taught through engaging **storytelling**, videos, music and narration.
- Learning should feel less like being taught and more like actively doing **purposeful** exploration.
- But do not compromise the depth of learning and explicit teaching.

Engaging, deep learning

- ✓ ST4S-assessed
- ✓ Minimal personal data footprint
- ✓ Highly-engaging content: Videos, sounds, music, stories
- ✓ Python, Blockly and non-coding activities
- ✓ Curriculum-aligned
- ✓ Safe AI
- ✓ Multi-lingual 🇦🇺 🇩🇪 🇫🇷 🇪🇸 🇨🇳



- ✓ Course Certificates
- ✓ Rank Progression
- ✓ Code auto-marking
- ✓ Quizzes (spaced repetition)
- ✓ Narration
- ✓ Learning Progression
- ✓ Self-tracking
- ✓ Student Progress Tracking
- ✓ Works tablet-native

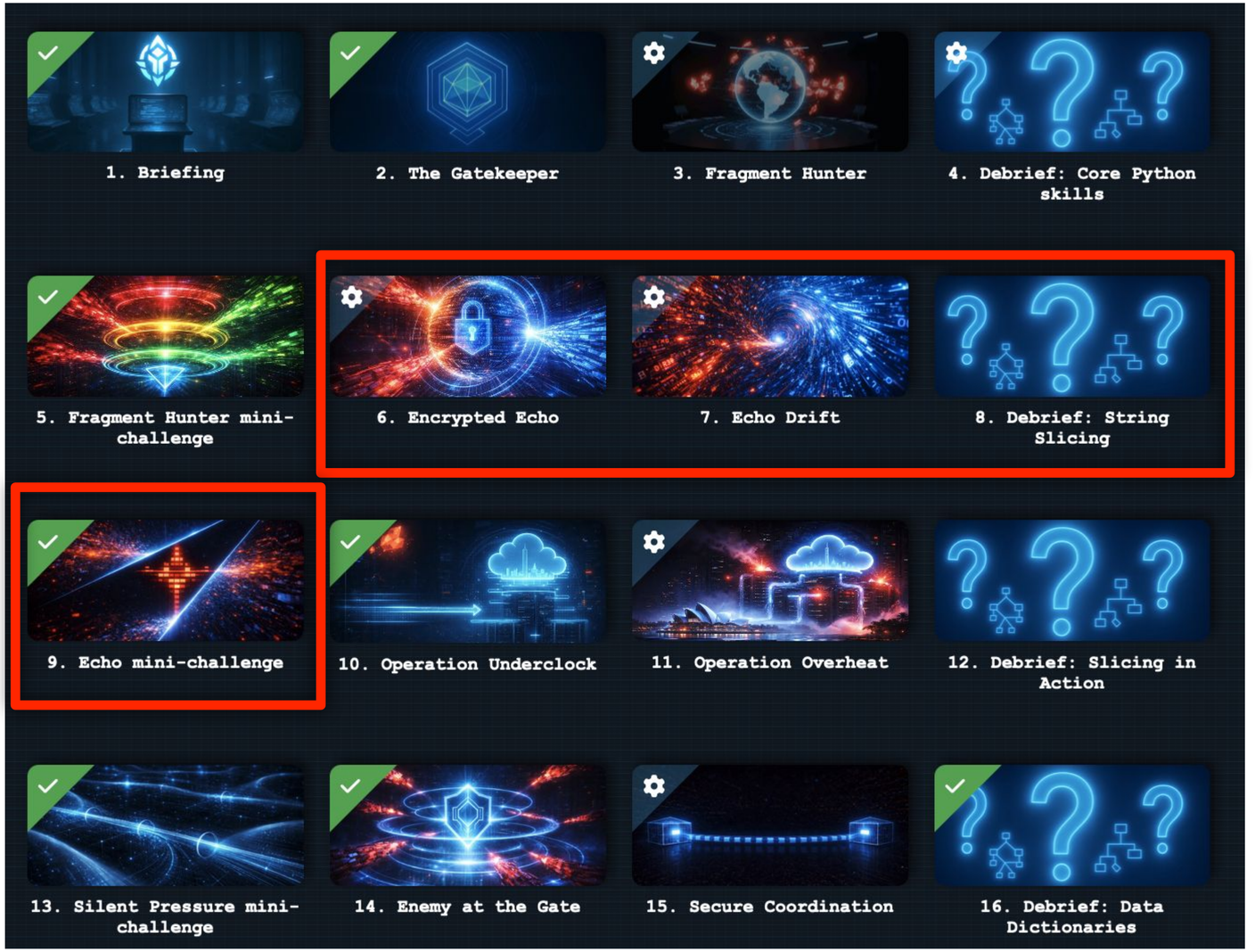


Our courses gently connect to popular themes in Sci Fi Movies

Pedagogy

Courses consist of Learning Modules. Each Module typically consists of four parts:

- 2x Learning by doing: small examples, fixing broken code, missions
- Quiz
- Mini-challenge

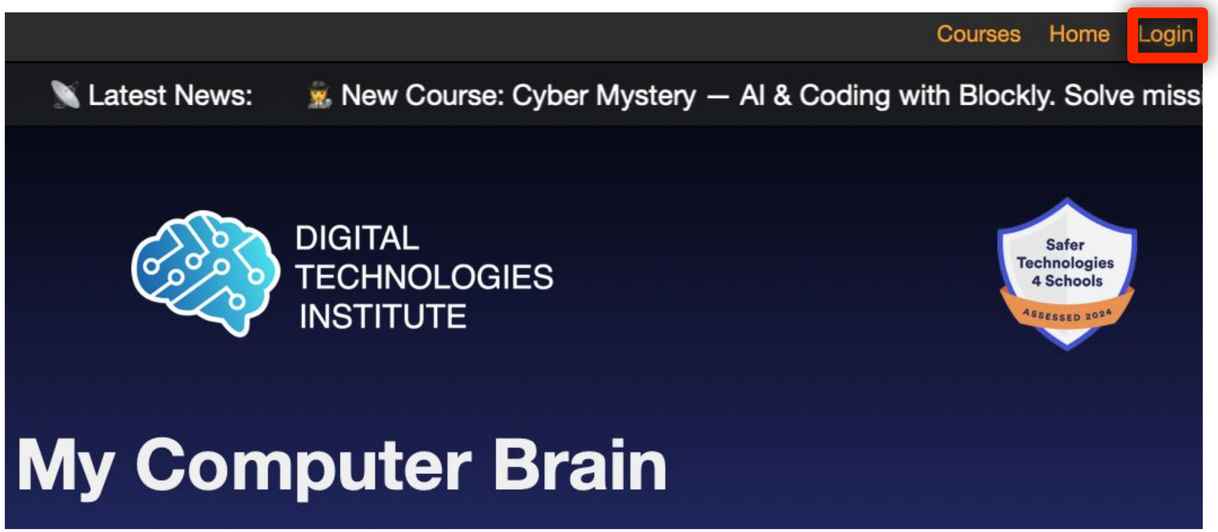

1. Briefing
2. The Gatekeeper
3. Fragment Hunter
4. Debrief: Core Python skills
5. Fragment Hunter mini-challenge
6. Encrypted Echo
7. Echo Drift
8. Debrief: String Slicing
9. Echo mini-challenge
10. Operation Underclock
11. Operation Overheat
12. Debrief: Slicing in Action
13. Silent Pressure mini-challenge
14. Enemy at the Gate
15. Secure Coordination
16. Debrief: Data Dictionaries

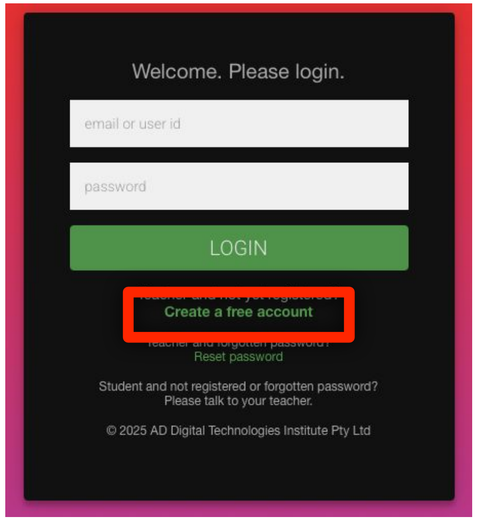
How to get started?

1. Teacher

As a teacher ...

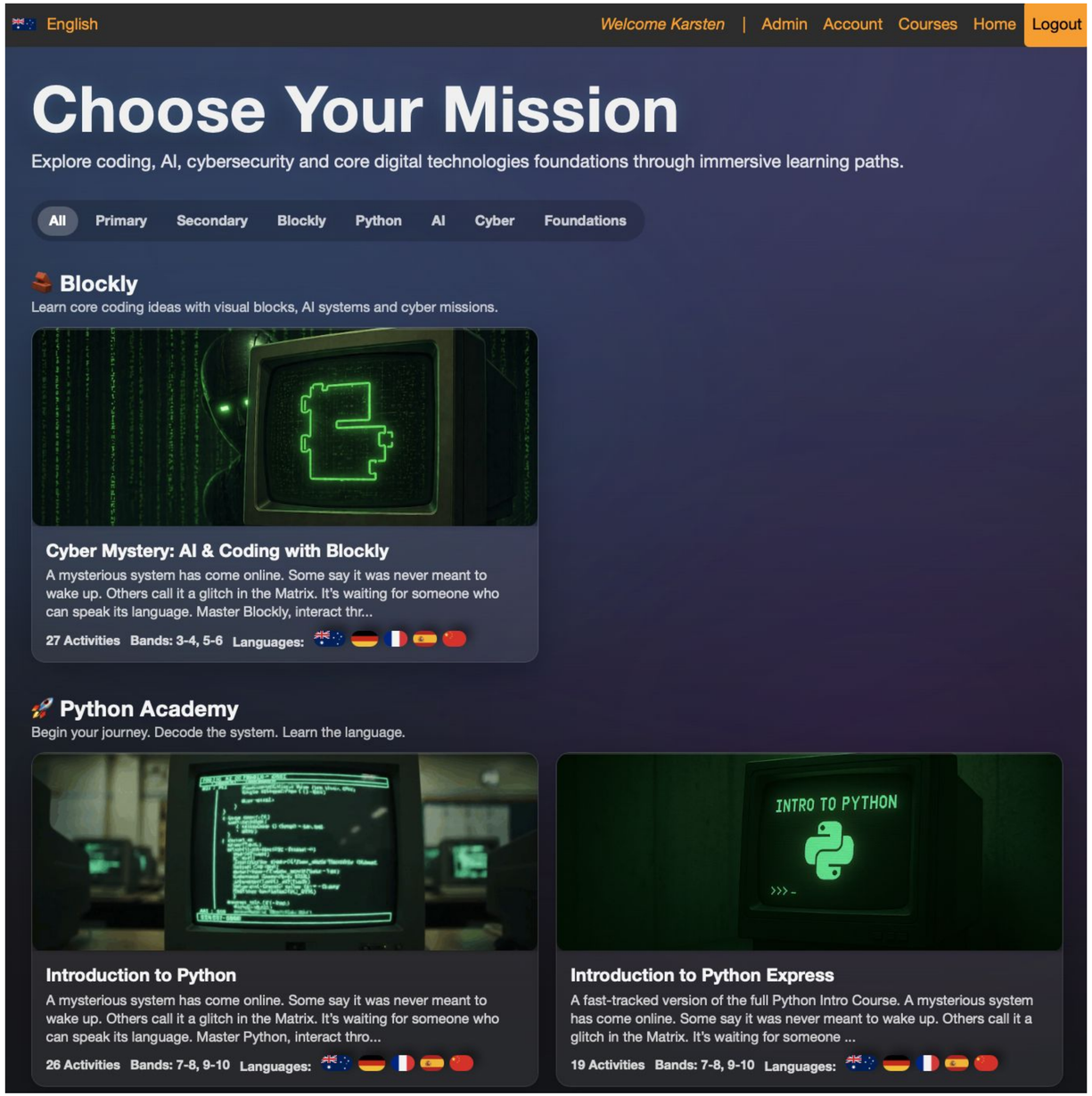
Create a free teacher account at www.mycomputerbrain.net





Teacher Accounts

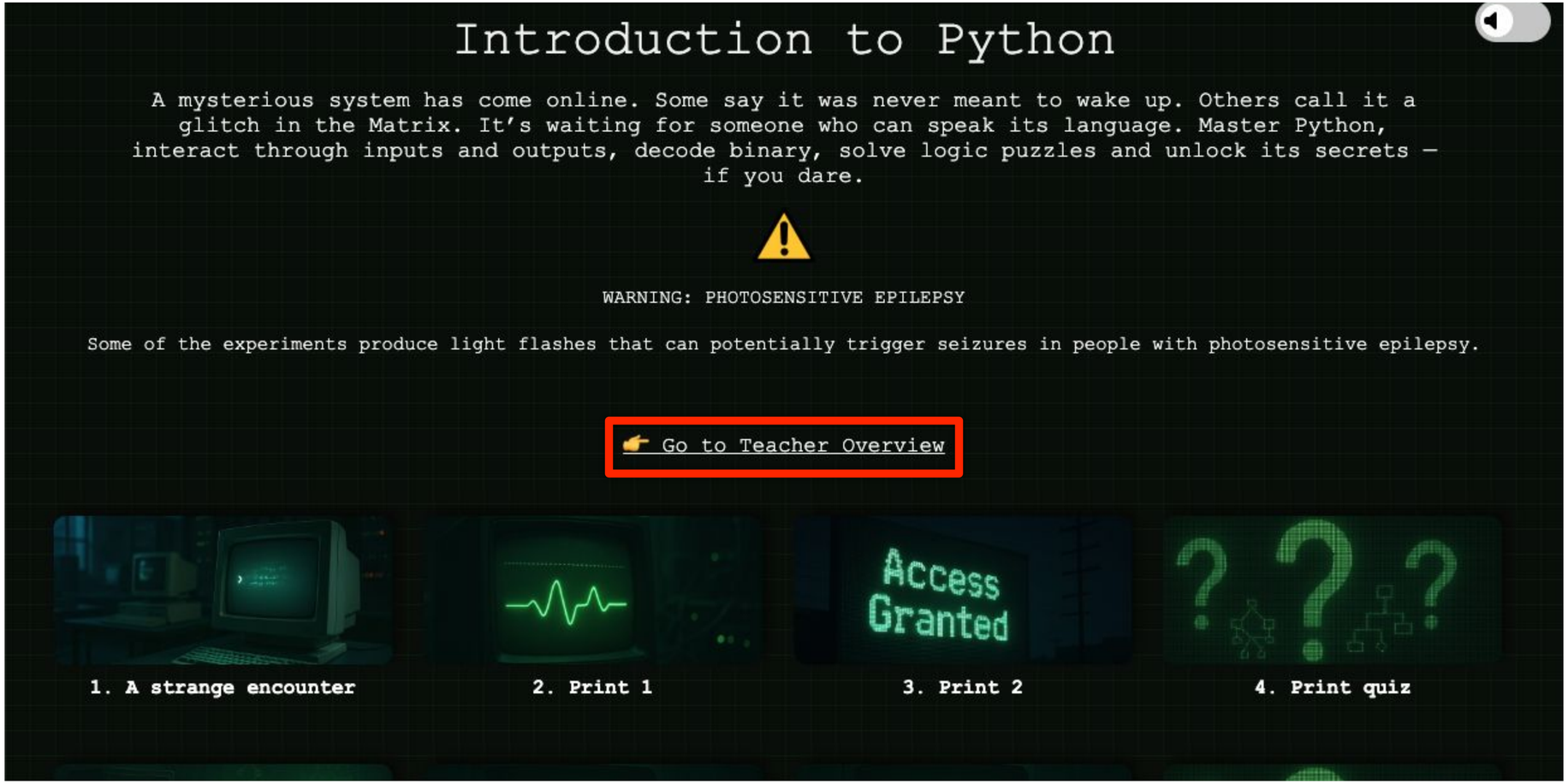
1. Are free
2. Have access to all course resources on the platform
3. Can manage students, access assessments and check on student progress
4. Are needed to create student accounts separately
5. Once you register, we will need to confirm your teacher status.
6. You will receive two emails (account creation and teacher confirmation)



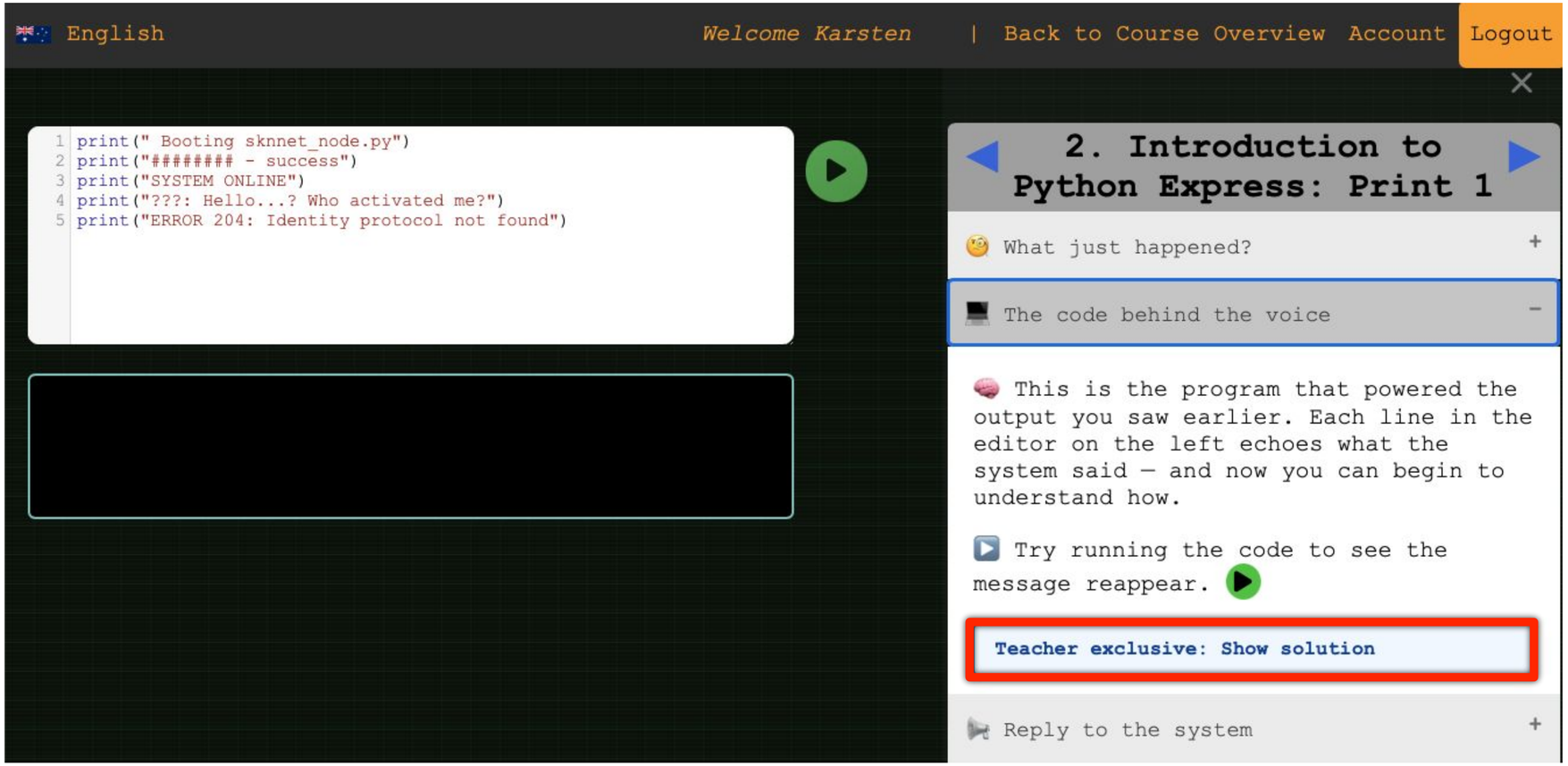
https://mycomputerbrain.net/php/courses/course-index.php

Browse the course list. As a teacher, you can explore any course or activity

Teacher Course Pages



Teacher Solutions



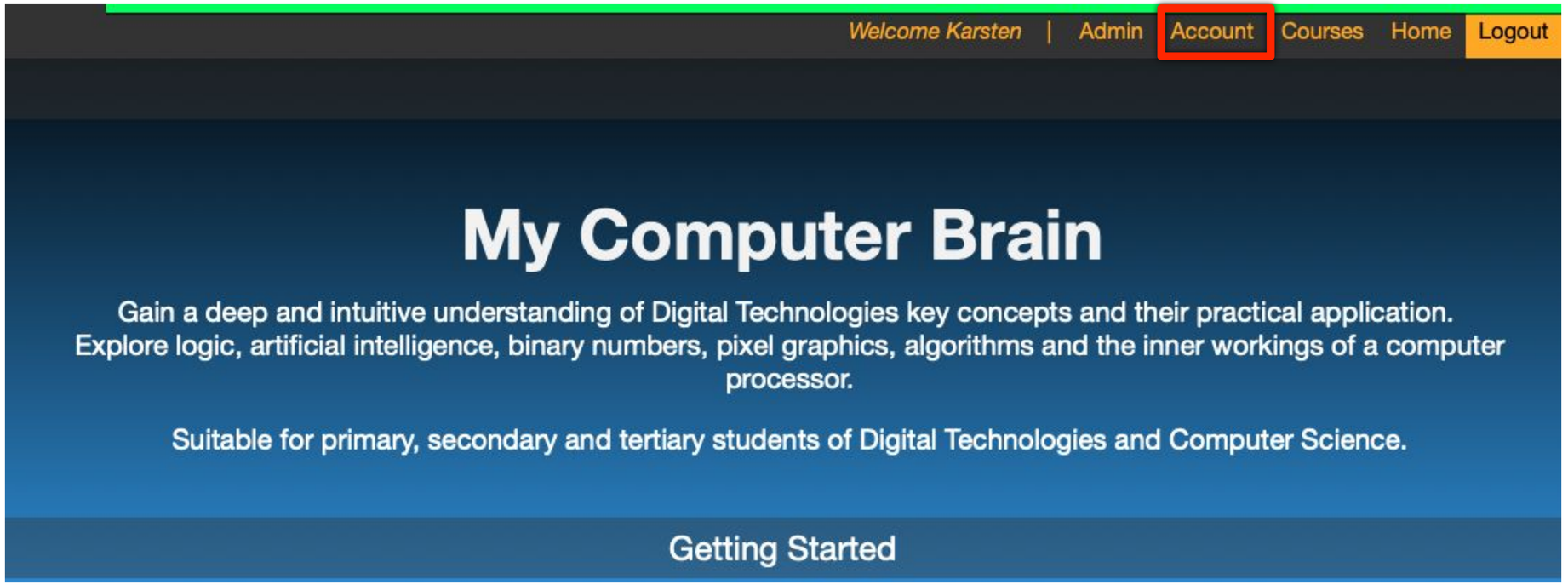
2. Students

Student Accounts

1. Are created by teachers in the shop
2. Provide students with a personalised learning experience
3. Collect points, see mission completion records, earn a medal, and a certificate
4. Students cannot change passwords or change names (only teachers can)
5. Logins consist of a username and a 4-letter password

Creating Student accounts

Click on Account



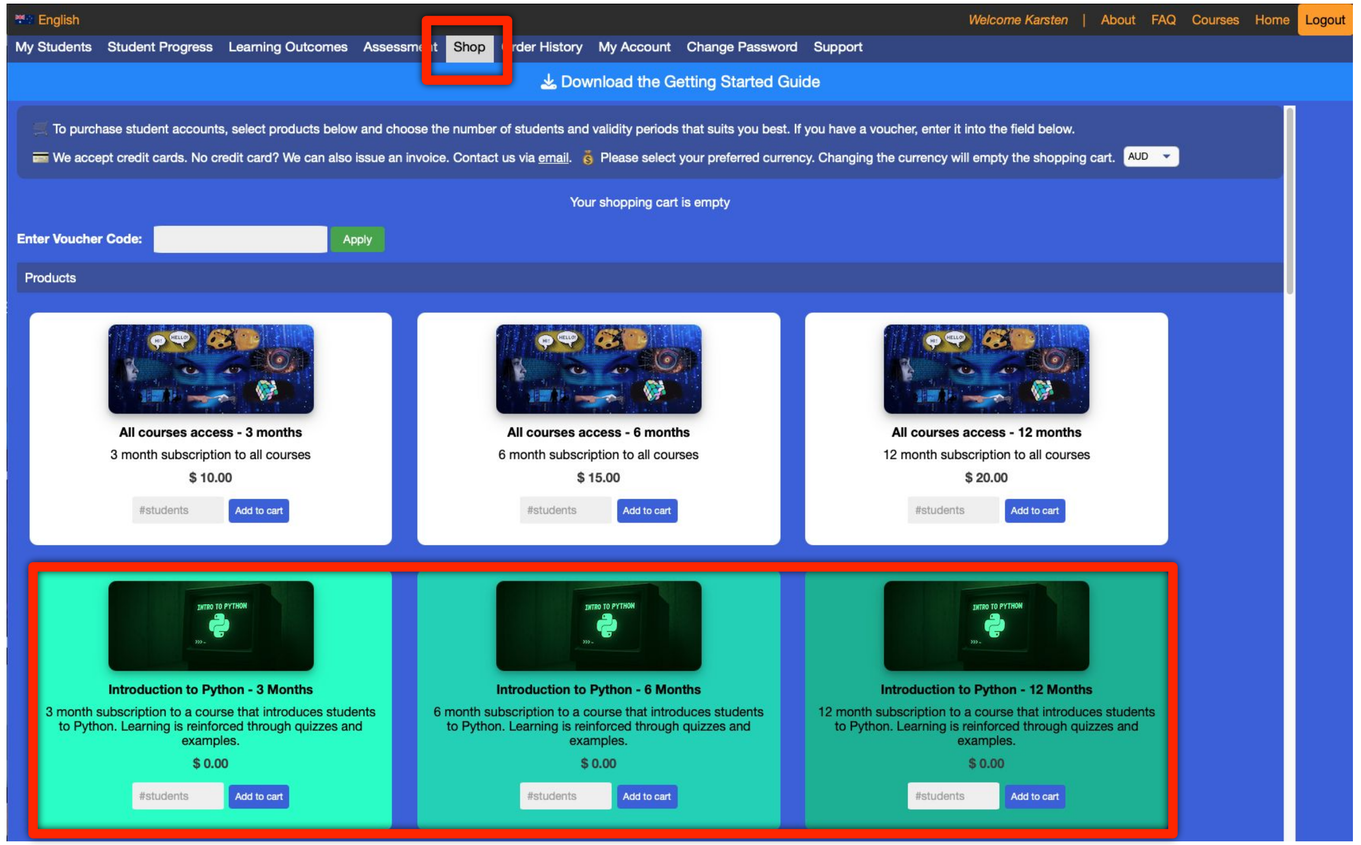
In the shop

Some courses are free.

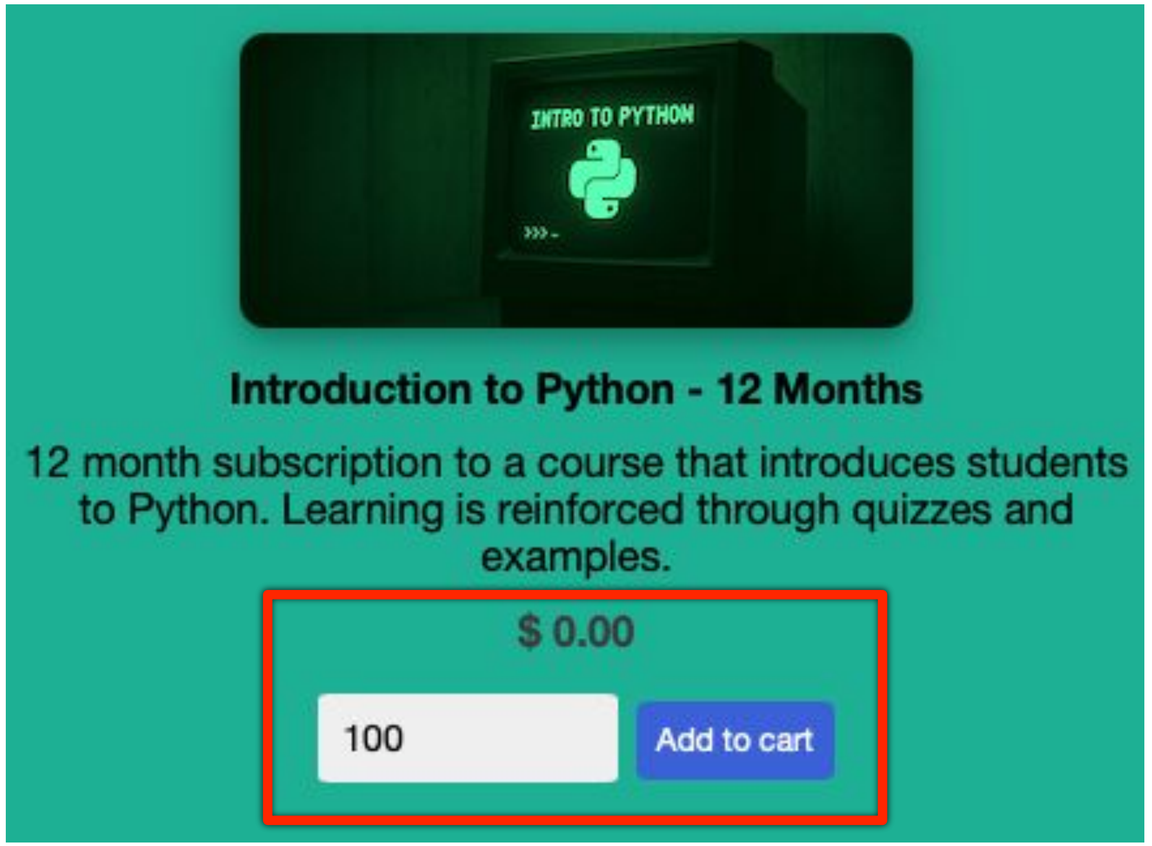
Others require a small payment

All access is available

Check the shop for pricing

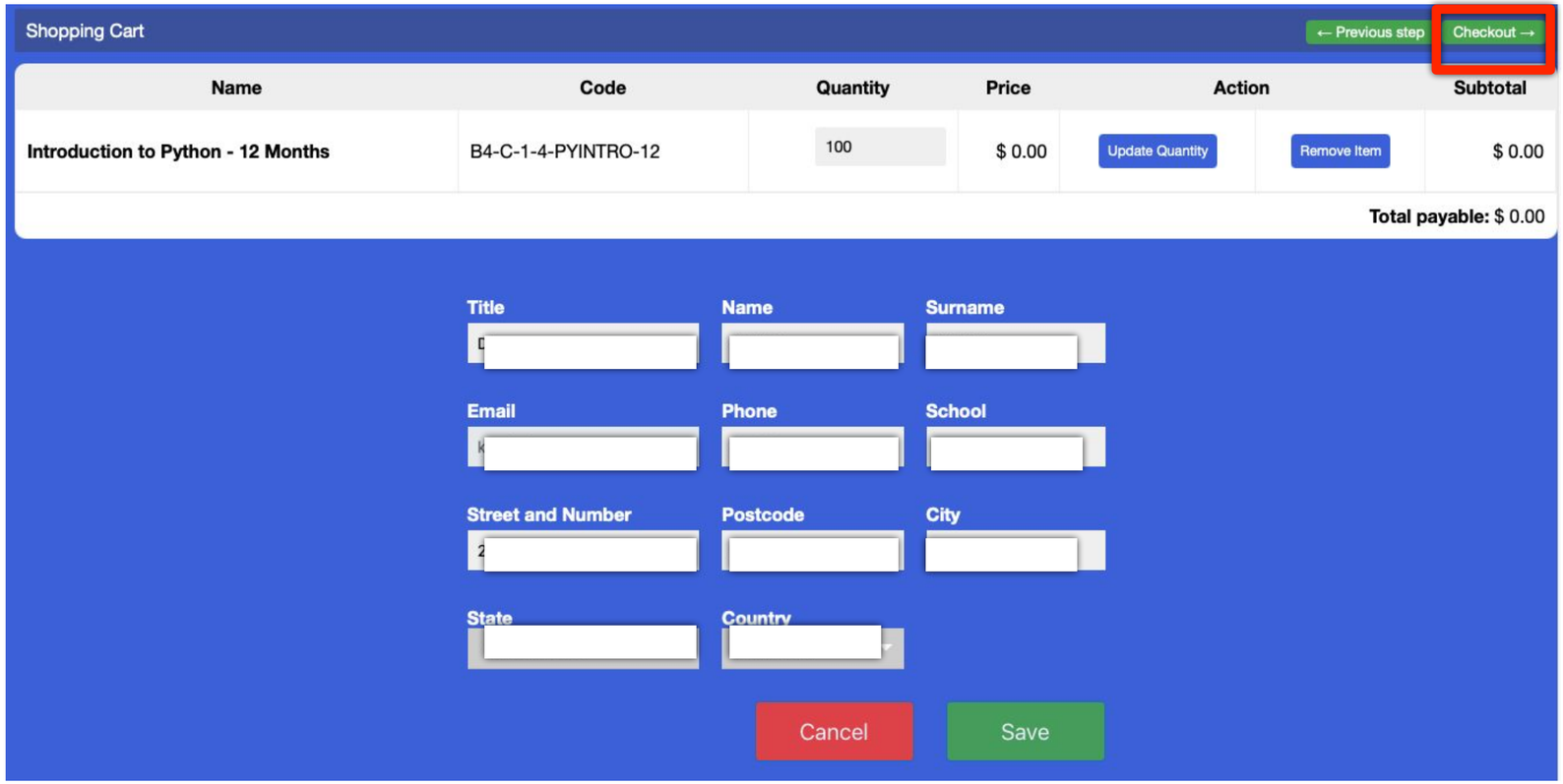


Enter number of student licenses and click on ‘Add to cart’

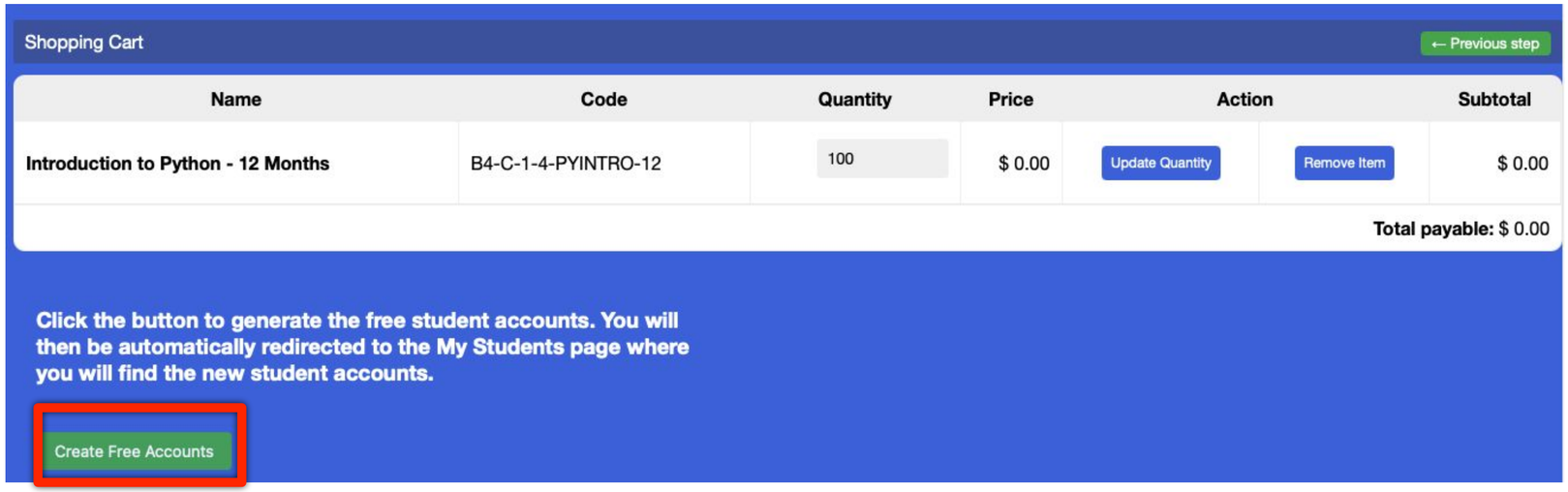


Click on Checkout

Confirm your details and click ‘Proceed’



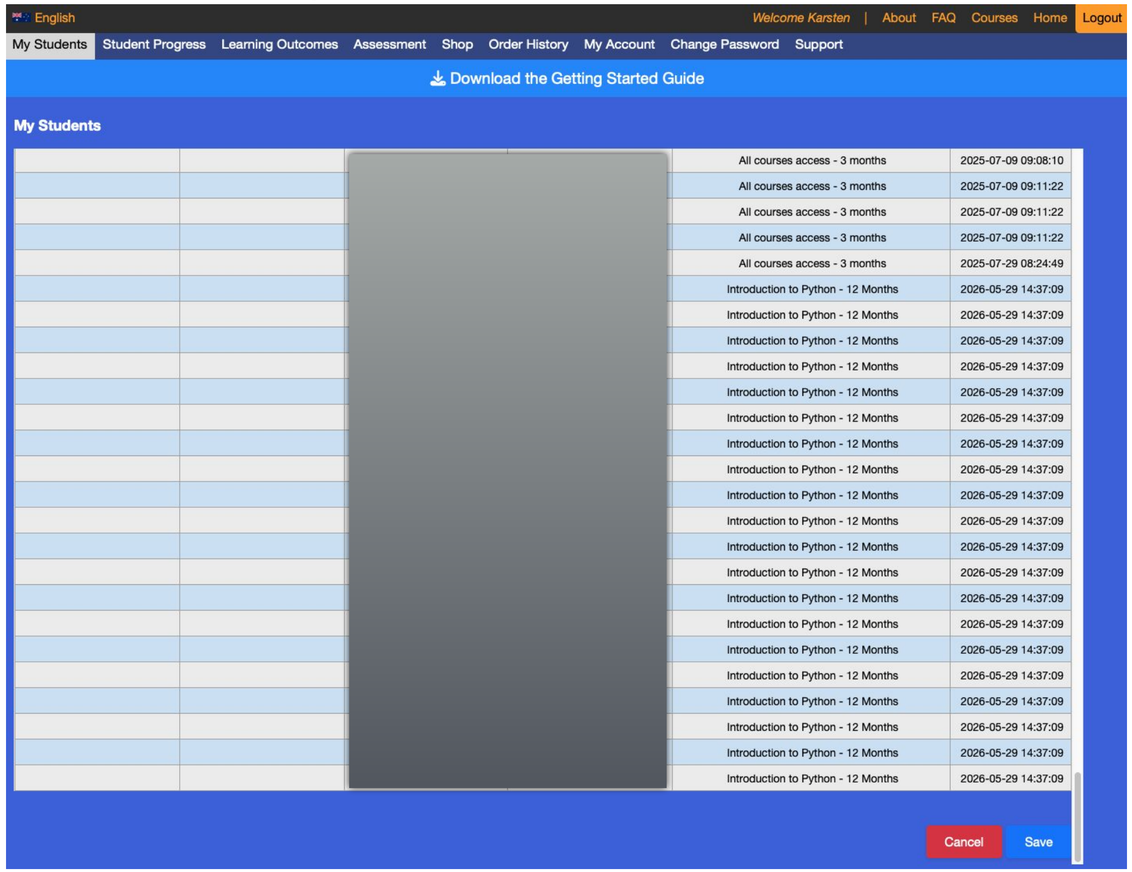
Click on ‘Create Free Accounts’



The system will create the accounts and redirect to the My Students screen

Distribute usernames+passwords to your students

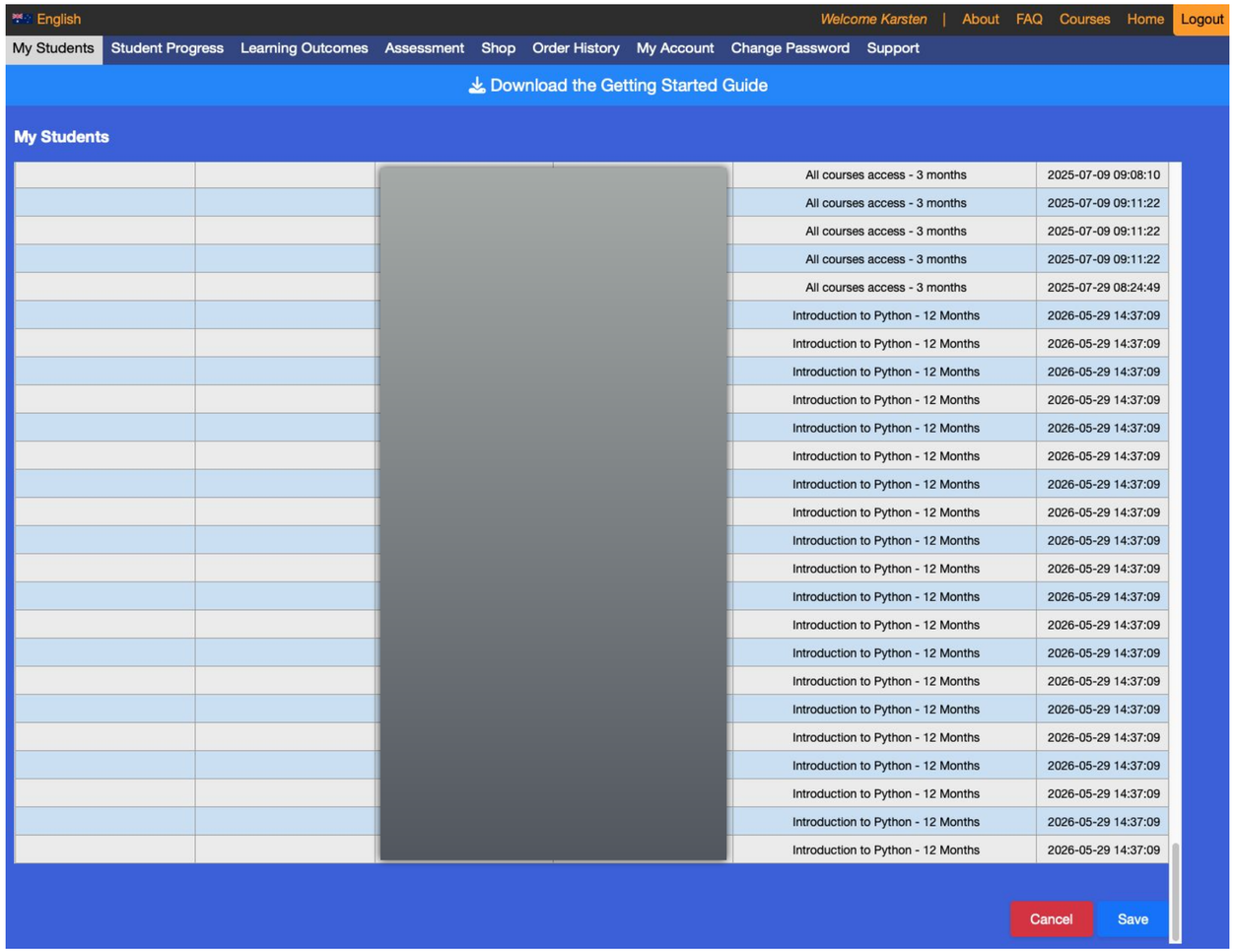
If you like, you can add names/surnames (optional), but needed for personalised certificate



Export as CSV and distribute to your students

Note: each account collects achievement points

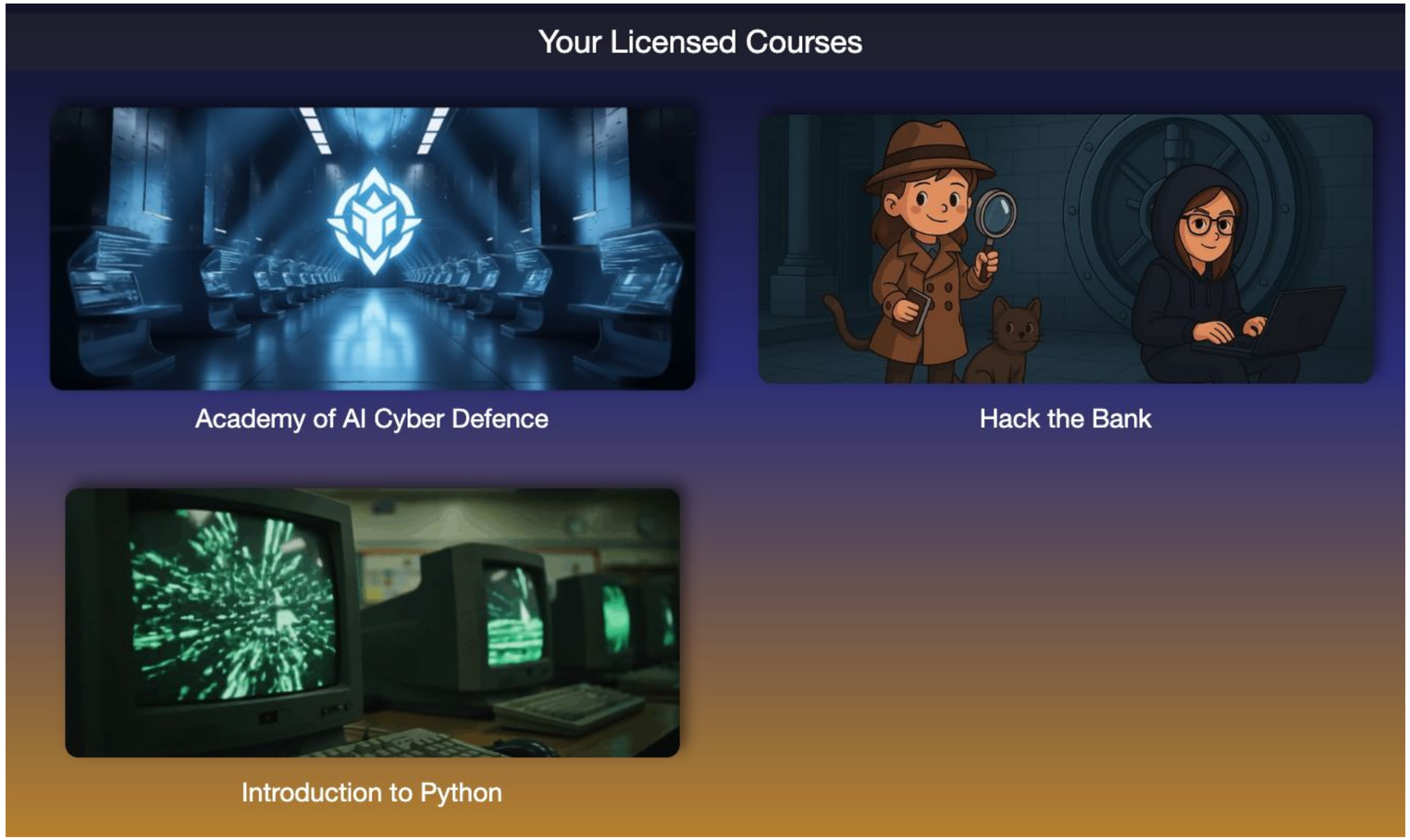
Our privacy commitment



- ✓ We do **not** collect: DOB, student email, Gender
- ✓ Names/surnames are optional
- ✓ You can leave those fields empty or enter an alias/nickname
- ✓ We are physically **unable** to connect with your students

https://www.digital-technologies.institute/single-post/privacy-by-design-how-mycomputerbrain-protects-students-privacy

Student perspective



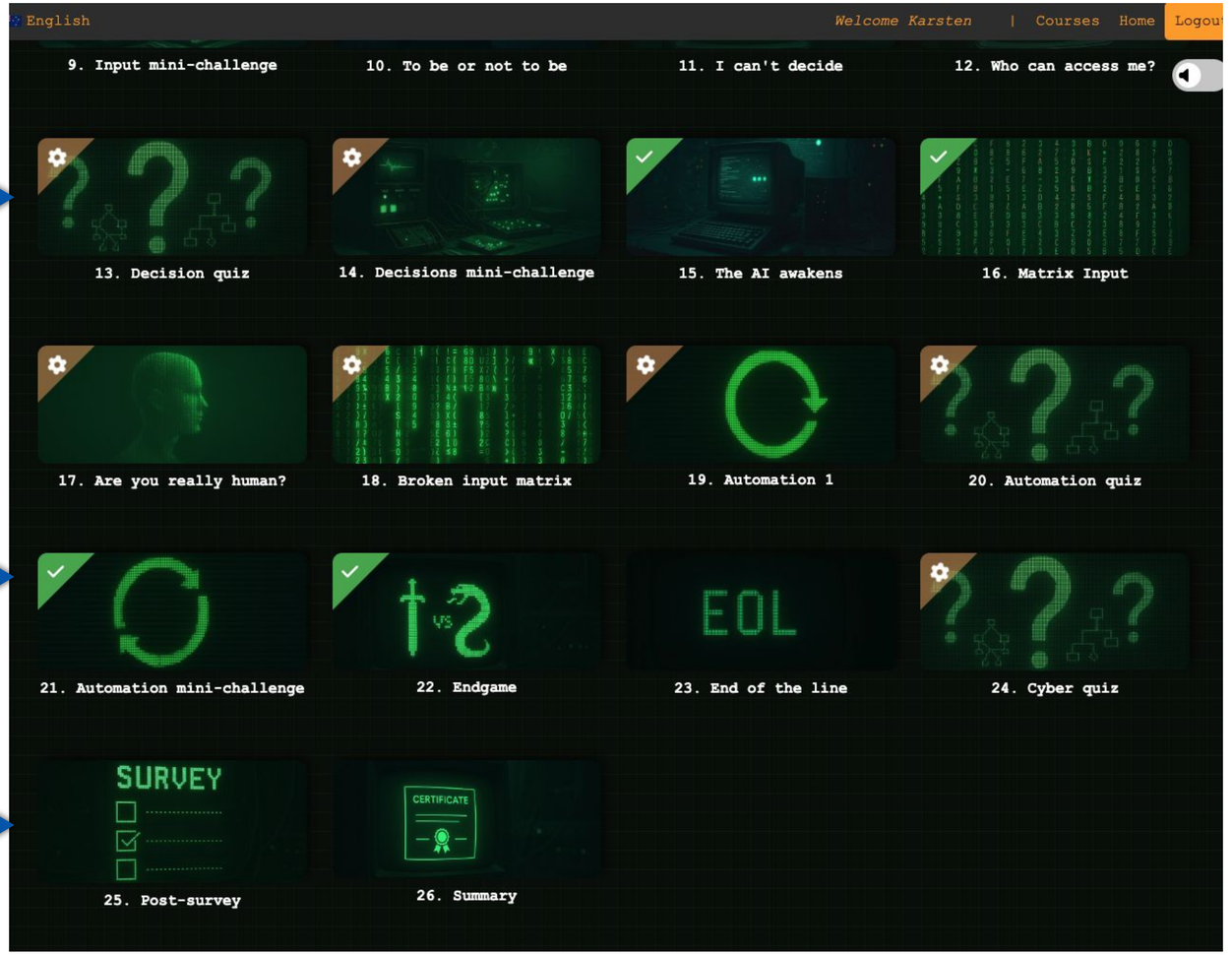
✓ Students see their courses on the MyComputerBrain Homepage.

Progress Tracker

Partially done

Done

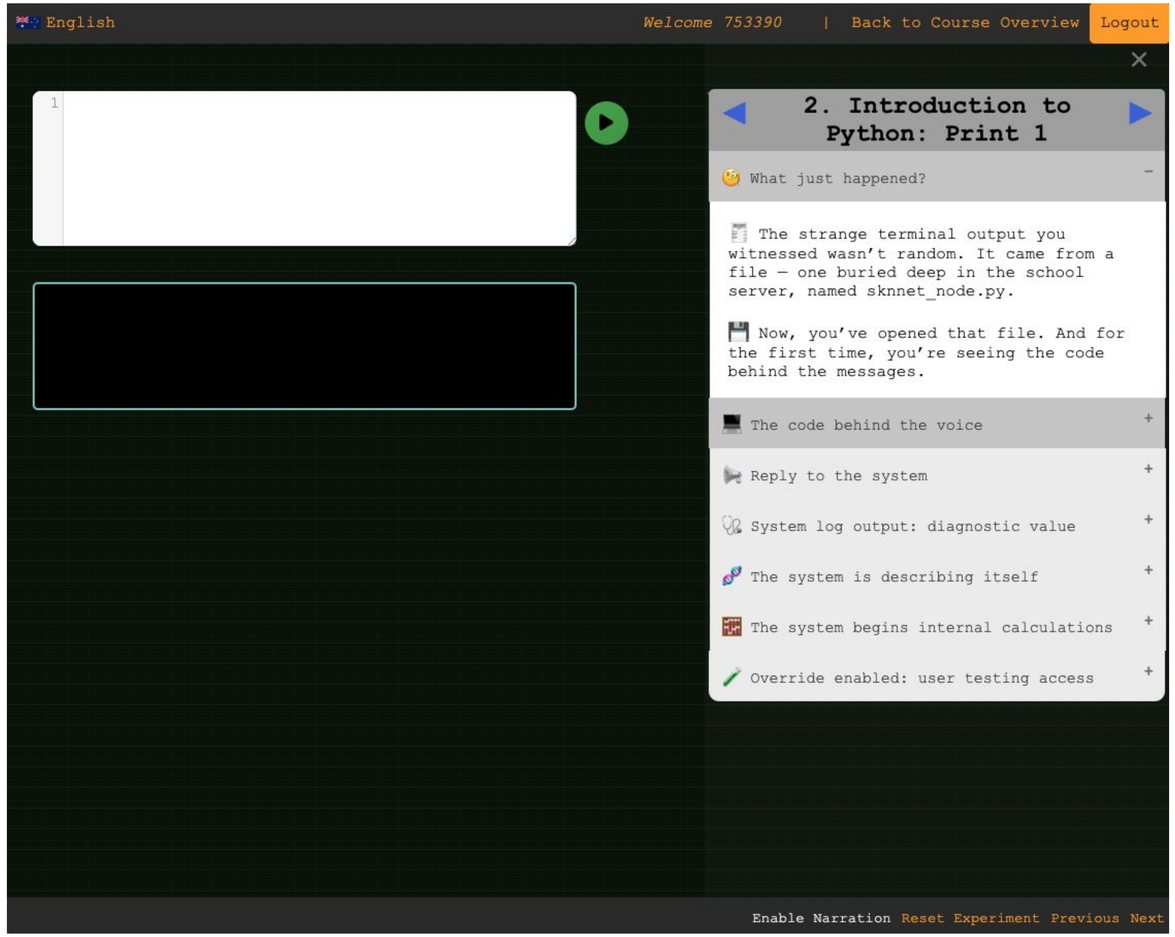
Not yet tried



Key elements

Editor

Output

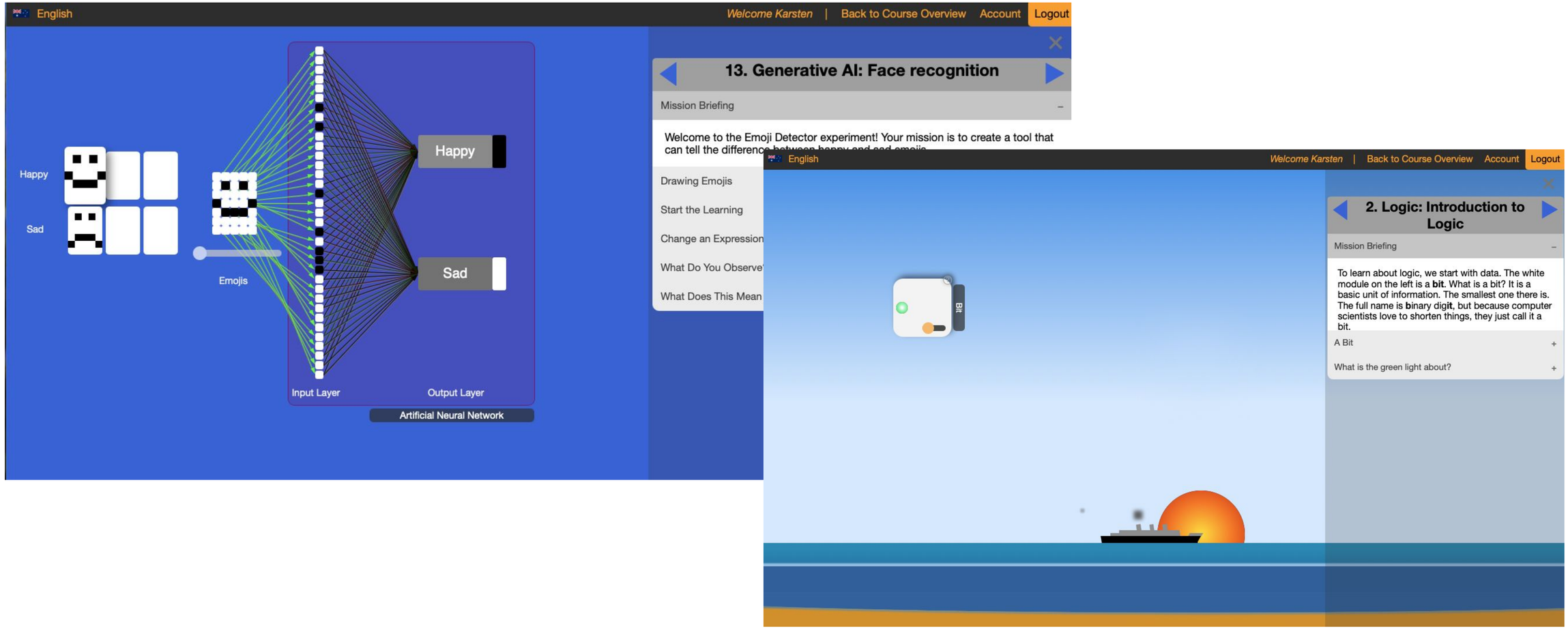


Navigation

Instructions Panel

Narration/ Navigation/Control

For non-coding courses

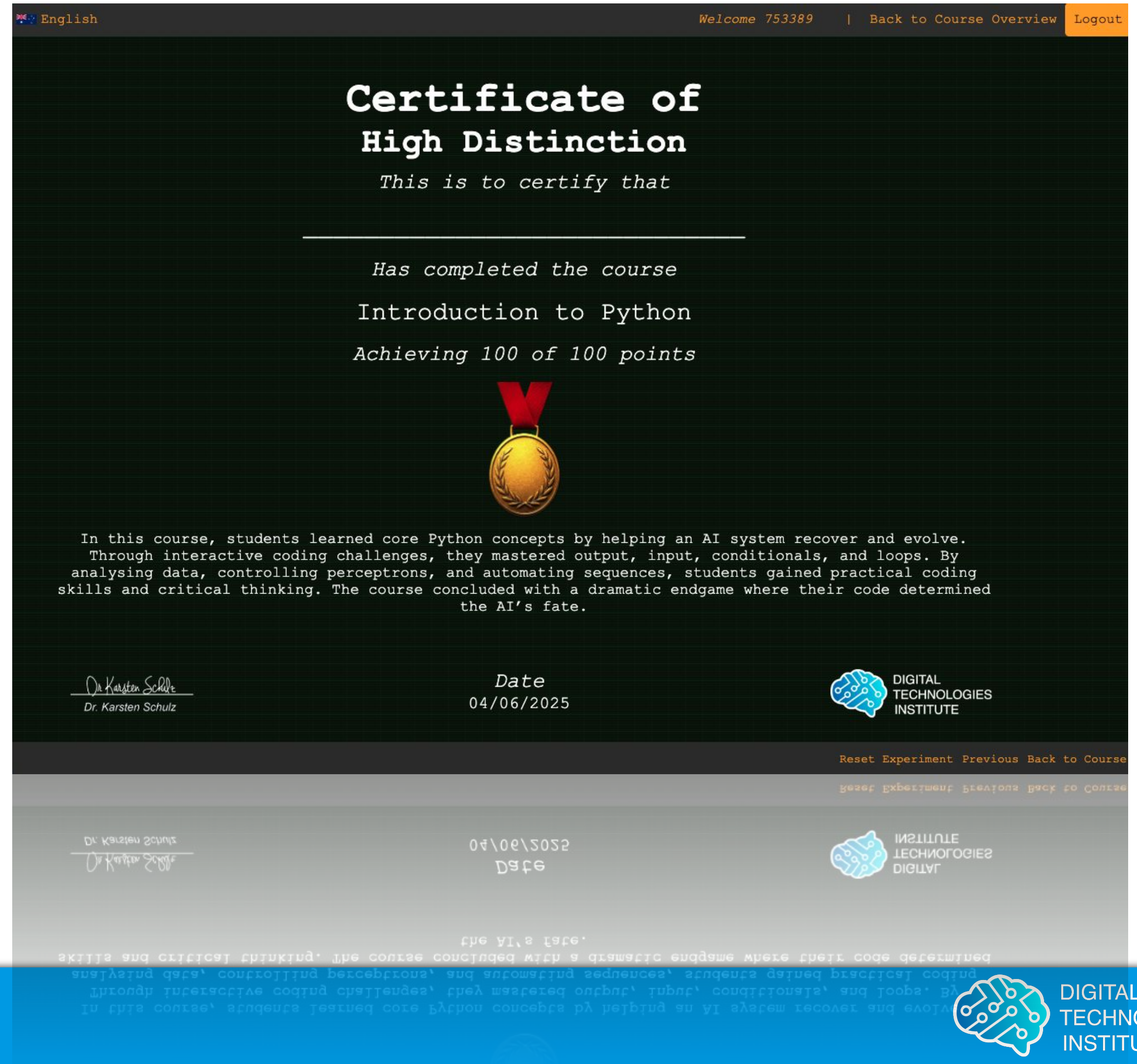


Certificate and Medal

>85% high distinction, gold

>75% distinction, silver

>50% achievement, bronze



Wait, there is more …

Tracking student progress

753383																										0%
753384																										0%
753385																										0%
753386																										0%
753387																										0%
753388																										0%
Elvis Presley	1	6	5	5	2	5	4	4	2	1	2	2	5	5	1	4	5	5	10	5	10	1	1	7	1	1	100%
Bart Simpson	1	6	5	5	2	5	4	4	2	1	2	2	5	4/5	1	4	5	5	/10	/5	10	1		1/7		1	76%
Arnold Schwarzenegger	1	6	5	5	2	5	4	4	2	1			5	4/5				2/5	10							1	57%
753392																										0%
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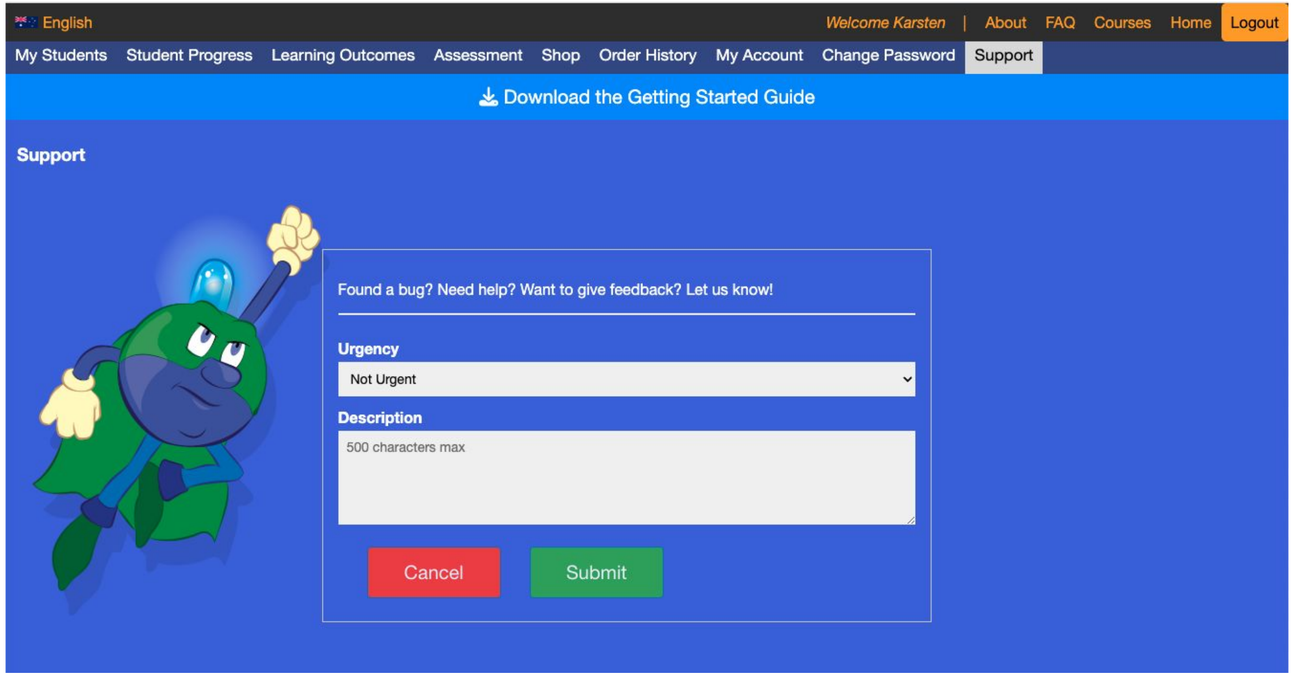
Support

Please use the support field in your Account (teachers only)



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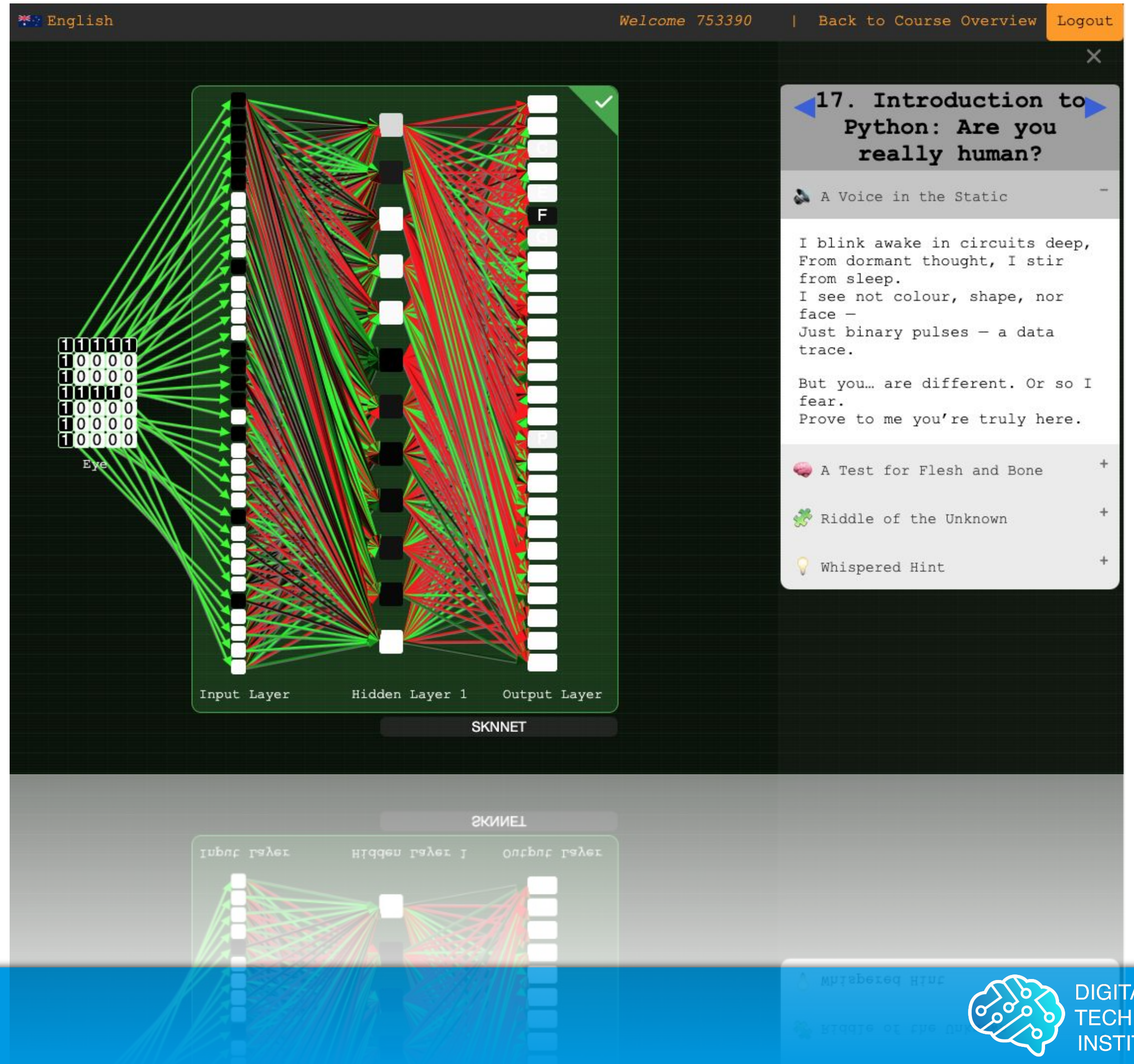
Safe AI

- Completely browser-based
- Not communicating with backend.
- Not GenAI
- SAFE !



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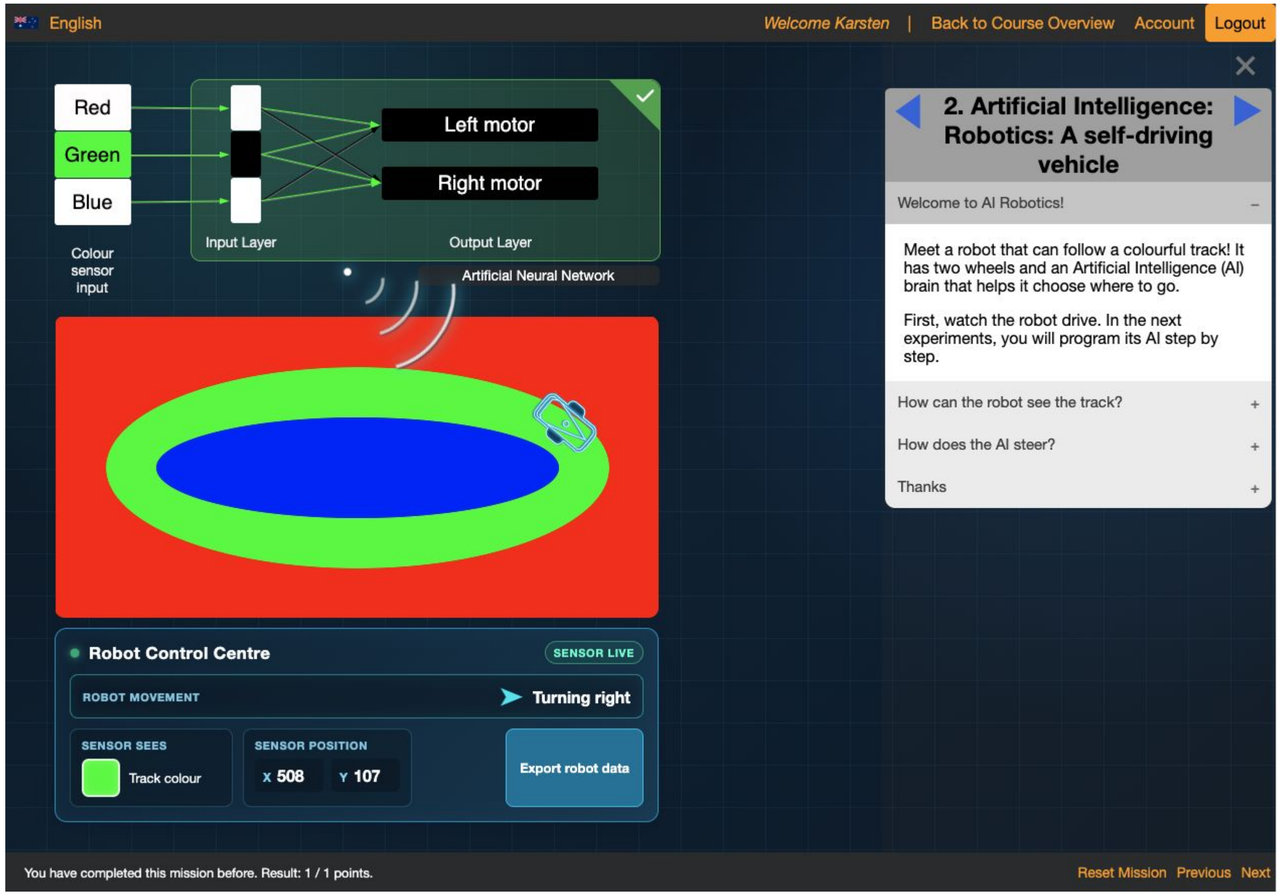
Roadmap for H2/2026

Hack the Bank Sequel

Primary & Secondary
Plugged & Unplugged

Capture the Flag with AI and Robotics



Primary
Non-coding

UX Upgrade

Localization 🇦🇺 🇩🇪 🇫🇷 🇪🇸 🇨🇳

… Beyond Courses …

Secondary + Primary

Turn-based game for graduates of Python Intro / Cyber Mystery (Blockly)

Certificates of Participation, Recording, Workshop Slides

Will be emailed by tomorrow mid-day

Q&A

www.mycomputerbrain.net