

Introduction

Pemteach is a cutting-edge mobile application designed to advance the objectives of Pemuda Gema by serving as a comprehensive Teachers Support Tool. This innovative platform is dedicated to empowering teachers who volunteer to educate underserved communities. By focusing on cultural training programs, Pemteach equips educators with the essential resources and knowledge needed to make a meaningful impact in these areas, fostering a richer, more effective teaching experience for both teachers and students.

Project Background

Pemuda Gema is a non government organization that strives to bring positive change towards the lives of the younger generation so that they can also become the agents of change and add values towards the development of families, communities, societies for the country. This time they are implementing technology to help underserved communities and give them access to quality education.

Problem Statement

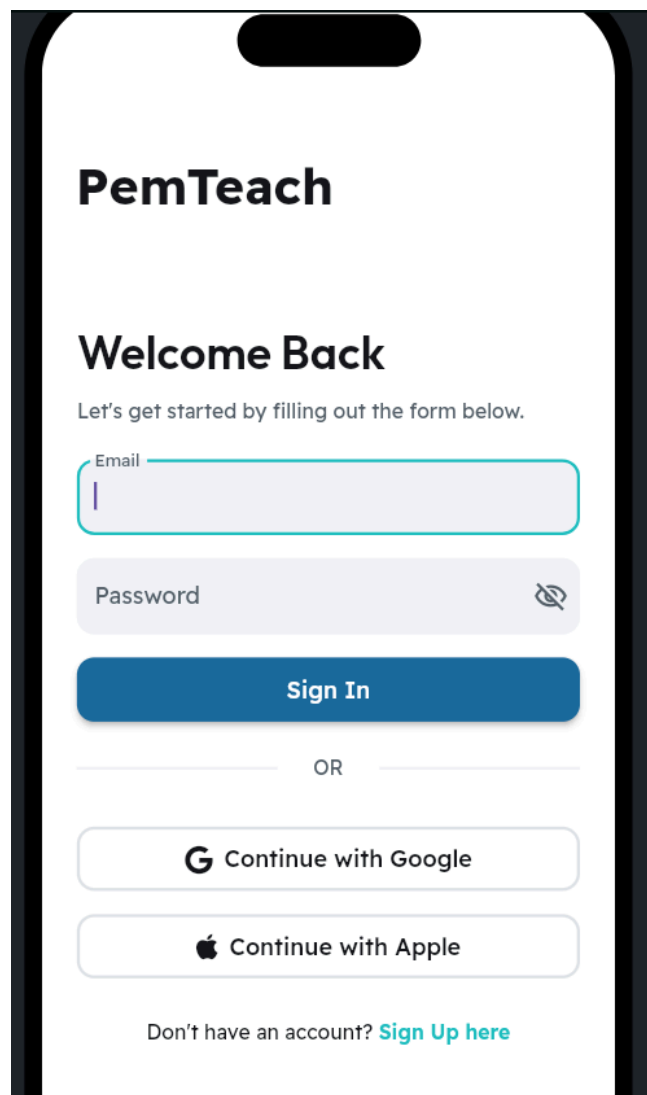
Education should be a right to anyone, but many underserved communities worldwide face significant barriers when it comes to accessing quality education. These challenges would include the lack of education resources, insufficient infrastructure and the limited access to skilled teachers to teach these communities. These communities include people who are living in urban areas that are unfortunate and had to drop out of schools, and people from rural areas. Technological innovation could help play an important role that would ensure that all children would receive the education they require.

Solution

Key Features

- Cultural, Teaching and Students Insights
- Personalized Skill and Learning Path
- Certificate Path
- Certificate & Badges
- Collaborative & Project-based Training
- Feedback & Evaluation

Demo



The image shows a mobile application interface for 'PemTeach'. At the top, the app name 'PemTeach' is displayed in a bold, black font. Below it, the heading 'Welcome Back' is shown in a large, bold font. A subtext 'Let's get started by filling out the form below.' is positioned just above the input fields. There are two input fields: 'Email' and 'Password'. The 'Email' field has a light blue border and a small blue cursor. The 'Password' field has a light gray border and a small eye icon to toggle visibility. Below the password field is a blue 'Sign In' button. Underneath the button is a horizontal line with the word 'OR' in the center. Below this line are two more buttons: 'Continue with Google' and 'Continue with Apple', both with light gray borders and icons. At the bottom, there is a link 'Don't have an account? Sign Up here' in a teal color.

PemTeach

Welcome Back


Let's get started by filling out the form below.


Email

Password

Sign In

OR

 Continue with Google

 Continue with Apple

Don't have an account? [Sign Up here](#)

First Login to the user's account if users are already created and they will be directed to the user dashboard. If the user hasn't created an account they could tap on Sign Up here and be directed to user registration.

brand.ai

Create an account

Let's get started by filling out the form below.

Username

Email

Phone Number

Password

Confirm Password

Continue

In order to create an account, the user must fill in the fields required in the form and press on continue to proceed.

To help us understand you better,
we will be asking you a few
questions.




Let's Start

Soon after, the user would be greeted with an onboarding page that helps the user to personalize the account with a few questions.

[← Back](#)

Question 1

How many years of teaching experience do you have?



Less than 1 Year

1-3 Years


4-7 Years

8

[← Back](#)

Question 1

How many years of teaching experience do you have?



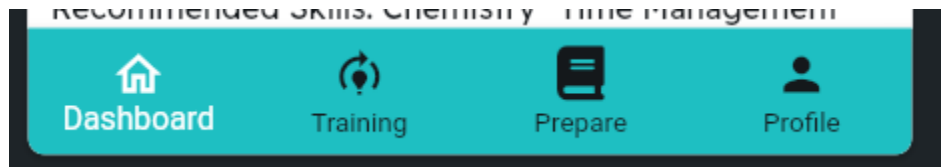
1-3 Years

Continue

The user would have to go through a short answering session to personalize the account and once its finished they will be directed to user dashboard.

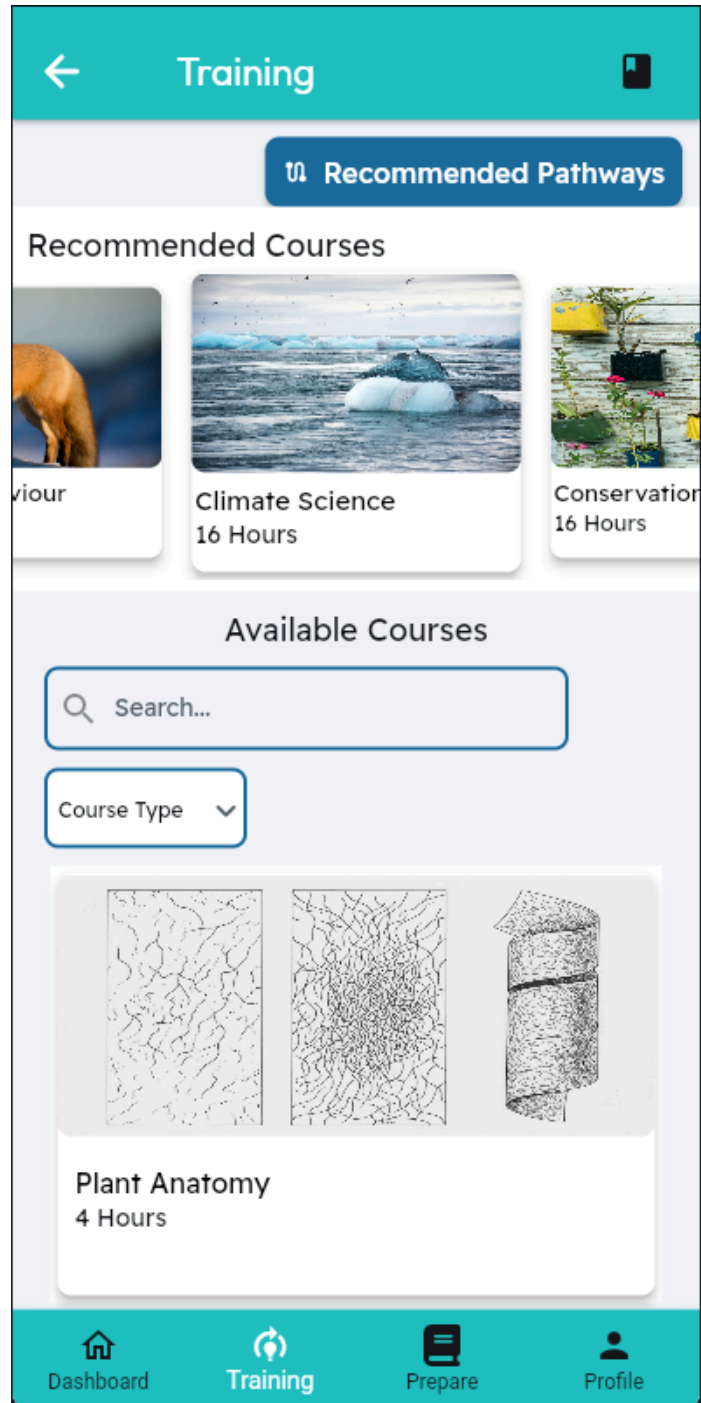


After user Validation the users will be directed to the user dashboard where it displays user profile information

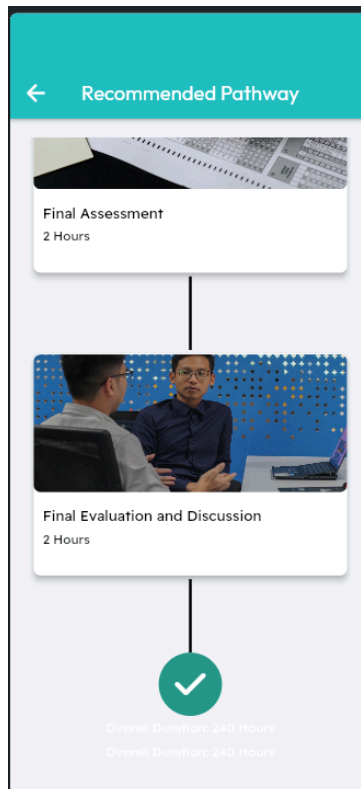
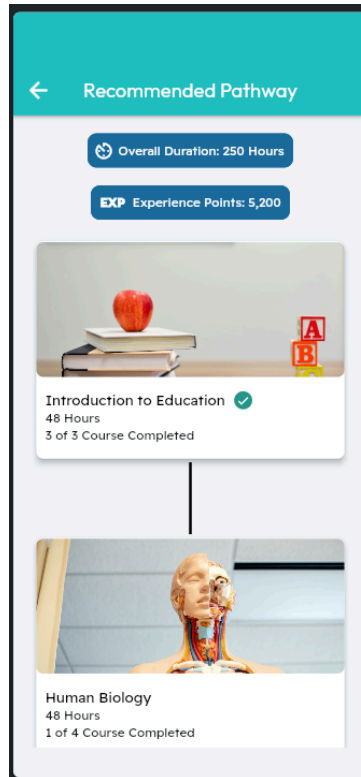


As seen at the image below our navbar mainly navigates towards our main features which are Training, Prepare and user profile

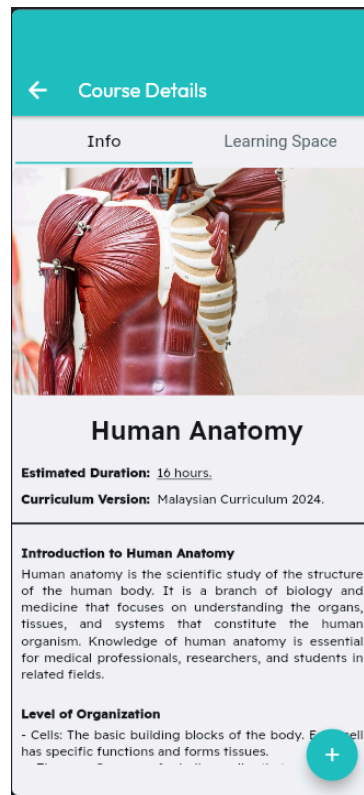
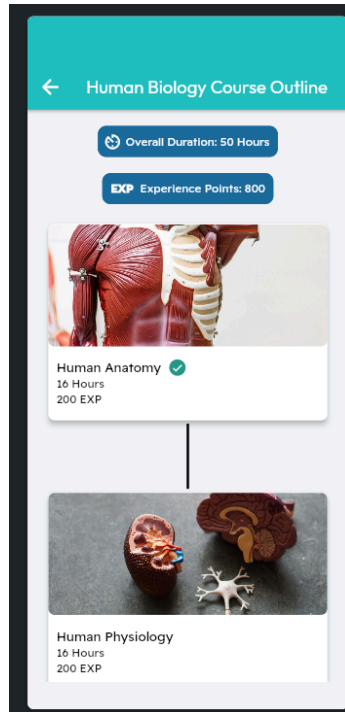
Training Features



We first navigate to the training page where users can do collaborative and project based training.



In the training page if users navigate to the recommended paths, the app would generate a recommended pathway for users to have a structured training path. And they could click on the courses to start learning

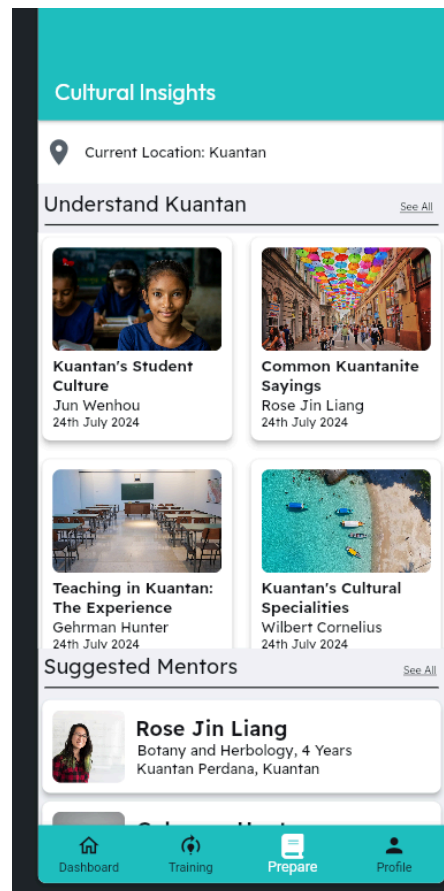


Once the user has decided to choose a course they will be able to see the roadmap of the course and information regarding the course detail



Furthermore, They are also able to navigate to the Learning space where they can have discussions with other users about the topics.

Cultural, Teaching and student Insight feature



When users navigate to the prepare table they will be greeted with the cultural insights page which features the main function of PEMteach which helps teachers to understand unfamiliar cultures before they leave to the area and teach the children there with articles for them to read and connect with suggested mentors with experience with the culture

[← Article](#)



Kuantan's Cultural Specialities

Wilbert Cornelius, June 1 2024

Throughout my time in Kuantan, here's what I've experienced:

- Vibrant performances of Silat martial arts and traditional Malay music
- Savory dishes like Nasi Dagang and unique seafood offerings
- Iconic sites such as Istana Sultan Abu Bakar and Teluk Chempedak Beach
- Colorful events like Pesta Tanglung (Lantern Festival) and cultural celebrations
- Skilled artisans in batik, songket weaving, and wood carving traditions

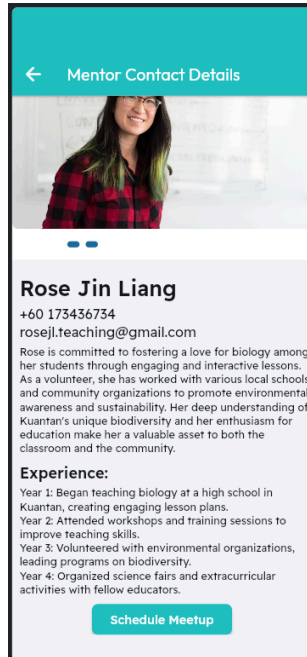
AI Recommendations

- Understand and appreciate the significance

AI Recommendations

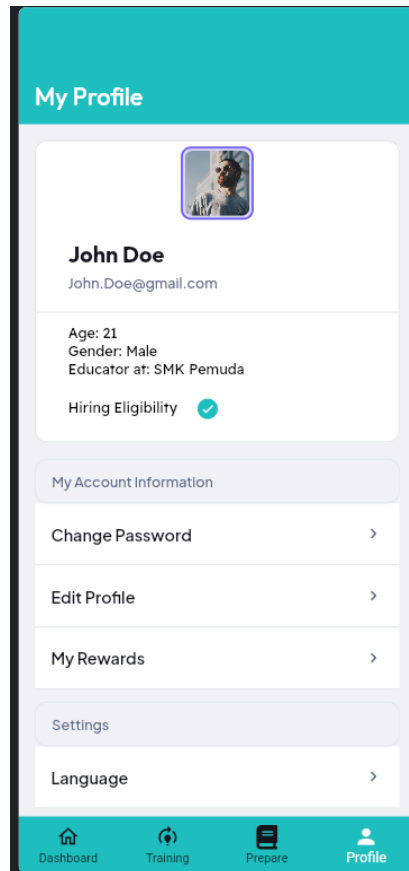
- Understand and appreciate the significance of Silat martial arts and traditional Malay music to connect with students' cultural heritage
- Be familiar with local dishes like Nasi Dagang and seafood offerings to engage students through shared culinary experiences
- Recognize the importance of landmarks like Istana Sultan Abu Bakar and Teluk Chempedak Beach in students' local history and identity
- Participate in and acknowledge local festivals such as Pesta Tanglung (Lantern Festival) to foster a sense of community and inclusivity
- Appreciate the craftsmanship in batik, songket weaving, and wood carving to connect with students' pride in local arts and traditions

This is an example of the Articles if users choose to press on them. Besides just a plain article there will be an AI Recommendations on what to do and explore around that area and culture to help familiarize the users.



As seen below users can schedule a meet up between mentors by pressing the schedule meeting button.

Profile Features



This is the user profile page. It has a Hiring Eligibility indication by Pemuda Gema staff to indicate that they are eligible to get an interview with Pemuda Gema. Furthermore it has another unique feature which shows the users certificates from participation in volunteering event and badges too.

← My Rewards

Certs

[View](#)

Number of Certs : 4



Badges

[View](#)

Progress :

70%

← Certificates

Certificate of Achievement

This certificate is proudly awarded to

John Doe

Pen Tsch is proud to award this certificate to John Doe, who has achieved a significant milestone in his journey. This certificate is a testament to his hard work and dedication.

Pen Tsch
SIGNATURE



Pen Tsch
SIGNATURE

[Print](#)

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Pen Tsch
SIGNATURE



Pen Tsch
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[Print](#)

← Badges



TechStack

- Flutter
- Firebase
- Chatgpt

Impact

Our Solution first aligns with 3 of the sustainable development goals which are Quality Education, Reduced Inequalities and Sustainable cities and communities. This is because the solution produced helps increase the supplies of skilled teachers in Malaysia. Moreover , it also increases confidence and encourages more volunteer teachers to join the cause and help Pemuda make a difference by providing education toward underserved communities.