



Languru App

SPRING 2023 - CS 691- CAPSTONE PROJECT
PROFESSOR HENRY WONG
PACE UNIVERSITY



languru

The logo consists of the word "languru" in a teal, lowercase, sans-serif font, accompanied by a small green speech bubble icon with three dots, all contained within a light blue rounded rectangular frame.

languru

The logo consists of the word "languru" in a teal, lowercase, sans-serif font, accompanied by a small green speech bubble icon with three dots, all contained within a light blue circular frame.

Our team



Thanh (Kate) Pham

Software Developer,
Scrum Master



Indeevara Tadikonda

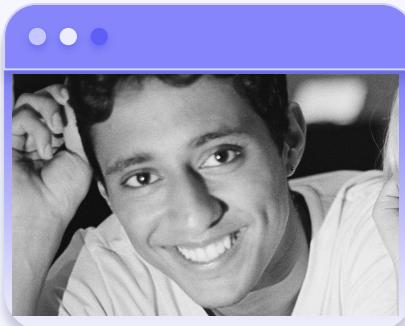
Developer

Our Team



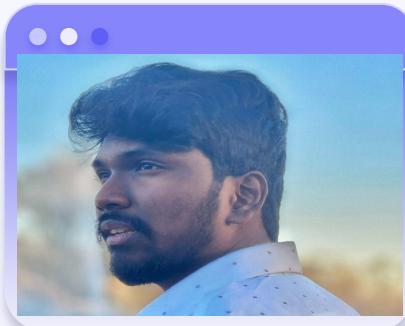
Hariharanmurthy
Krishnamoorthy

Quality Analyst And
Tester



Musa Nishat

Developer



Noel Sam Routhu

Database
Administrator

Agenda

01 Improvement from Professor's Feedback

02 Problem Statement vs Solution

03 Personas

04 Minimum Viable Product

05 Technologies

06 Architecture Diagrams

07 Sprints Recap

08 Product Backlog and Sprint Backlog

09 Metrics

10 Retrospective

11 Sprint 5

12 Live Application Demo



◀ 01 ▶

IMPROVEMENT from PROFESSOR'S FEEDBACK

Improvement from Professor's Feedback

Feedback



Late submission

→ The team submitted all work on time.

Specifying AWS service

→ The team explained what kind of AWS services used for databases

Missing Acceptance Criteria slides

→ The team added Acceptance Criteria slides.



◀ 02 ▶

PROBLEM vs SOLUTION



Problem Statement

-English learners faces challenges when they speak E.L correctly due to limited feedback on their speech while English teachers' feedback is costly and time consuming.

-The current speech recognition technology is not accurate enough to provide reliable feedback on pronunciation, which can hinder the learning process.





Project Description

Languru - Project Description

Project Description	
Project Name:	Languru
Team:	Radiant
Project Description:	<p>Recording voice and breaking down the sound of a word with real-time feedback on users pronunciation accuracy.</p> <p>For customers who want to improve their English pronunciation. the Languru is a mobile app that checks users' single words and provides accurate feedback. unlike the traditional way English learners get feedback from their teachers. our application brings together the best of language and guru to help English learners improve their pronunciation and fluency.</p>
Benefit Outcomes:	
	<ul style="list-style-type: none">- Users can improve their speaking skill anywhere and anytime.- Users can record their voice and receive feedback from Languru to improve.- Users will have a number of topics to choose to master their speaking skill.
Github Link:	https://github.com/htmwl/Languru/wiki

Team Working Agreement

Team Working Agreement

Purpose of the agreement:

- To complete Computer Science Project 1(CS 691) as smoothly as possible.

Name of the Project:

- Languru

Terms of Agreement:

- All the team members are expected to attend the weekly meetings(Wednesday 8:00 PM) without fail
- If in any case you are not able to join the call, you are expected to update the other team members of your absence.
- In the case of absence for a weekly meeting, you are expected to make it up before the next team meeting.
- The weekly meetings are held on zoom and any updates can be communicated through Whatsapp messenger.
- Google workspace, GitHub and Agile can be used to track and divide all of our work.
- You are expected to be active on the WhatsApp messenger group chat for any updates.
- Work should be divided equally amongst the peers.
- Each team member should complete the work before the deadline. In case you are not able to do so, inform your peers so that they can divide the work accordingly. Failing to do so might lead to the decrease of the Team's grade.
- The Scrum Master is responsible for organizing the weekly meets, and everybody should be open to meet virtually more than once weekly if the situation demands it.
- Every team member is expected to be active in the weekly meetings, be productive and open to discussions and give a timely update of their part of the work.

Team Members:

Indeevara Tadikonda	it49412n
Thanh Pham	tp89638n
Musa Nishat	mn64635n
Noel Sam Routhu	nr66642n
Hariharanmurthy Krishnamoorthy	hk97281n



◀ 03 ▶

PERSONAS

PERSONA 1



"With languru, I can easily practice my English pronunciation for IELTS without having to go through a long sign up process or paying a premium fee."

Name: Areeba

Age: 21

Occupation: University Student

Location: Lahore, Pakistan

Level: Senior

Goals

- Finish her undergrad
- Study for IELTS and GRE
- Apply to MBA programs in the United States

Loves

- School
- Maths
- Spending time with her family

User Description

Areeba is in the final year of her Business Management degree from LUMS University. When she graduates, she wants to get an MBA in the UK

Interests

- Entrepreneurship
- Reading
- Community Organizing

Frustrations

- Struggling to find an affordable and proficient English tutor
- Apps like Duolingo not focusing on speaking and pronunciation enough

Motivations:

- Convenience
- High Quality
- Price



PERSONA 2



*"When I first came to America, I could barely speak a word of English. Every night, I would open up **languru** and practiced and practiced until I mastered the language, which greatly helped my business"*

Name: Gao

Age: 37

Occupation: Taxi Driver

Location: New York City

Goals

- Save for children's education and retirement
- Open his own taxi company
- Become a chess master

Loves

- His children
- Playing guitar
- Old Kung Fu movies

User Description

Gao moved to the United States four years ago from Beijing. After a year, he brought his family along too. They live happily in Queens.

Interests

- Acquiring a green card
- Entrepreneurship
- Joining City Council

Frustrations

- Culture shocks, language barriers, racism
- Fundraising and organizing for his taxi business

Motivations:

- Convenience
- High Quality
- Price



PERSONA 3



"In a perfect world, I would spend hours every day with every one of the kids I work with, but that's unfortunately not possible. With languru I can rest easy knowing that some of my kids have a resource they can use anytime which helps them with their speech."

Name: Daniella

Age: 31

Occupation: Speech Pathologist

Location: San Juan, Puerto Rico

Goals

- Raise awareness and money for children's healthcare in PR
- Write a book on speech therapy

Frustrations

- Giving each patient enough attention
- Lack of medical resources and infrastructure
- Prejudice to those who are differently abled

Loves

- Kids
- Hiking
- Collecting records

User Description

Daniella has loved kids since she was a kid and always knew she wanted to be some kind of children's doctor when she grew up. Today, she helps children with learning and speaking disabilities

Interests

- Child healthcare
- Medical research
- Development of Puerto Rico

Motivations:

- Convenience
- High Quality
- Price



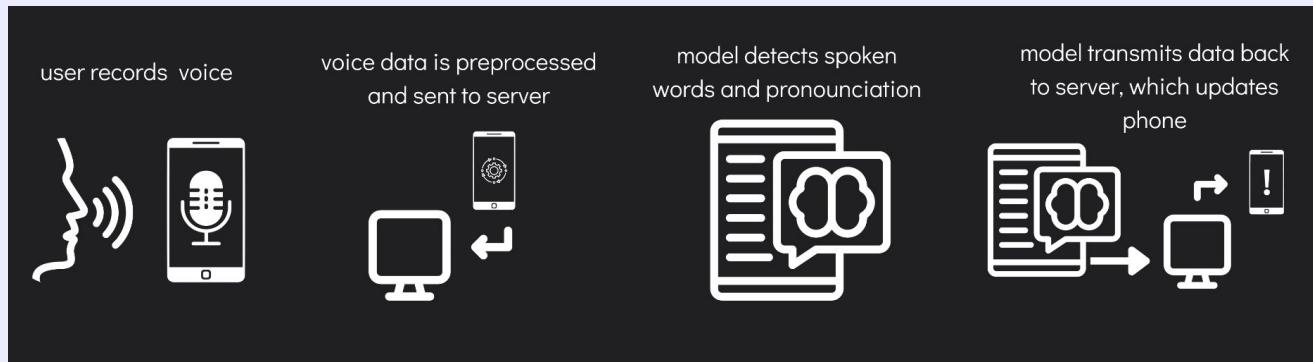
◀ 04 ▶

MINIMUM VIABLE PRODUCT

MINIMAL VIABLE PRODUCT (MVP)

- Mobile application with speech recording capability
- Machine learning algorithm/API to break down individual spoken words, detect, and note incorrect pronunciations
- Server with functionality to receive voice data and send back analyzed data
- Server to host machine learning model

Steps:



APP LOGO

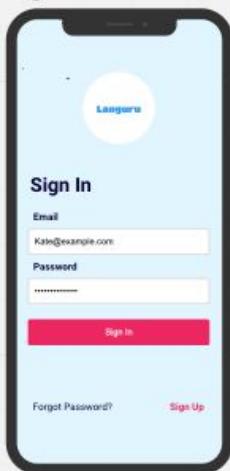
The name of the app is a combination of Language and guru. Blue will be the main theme of the application.



languru

MOCK UP DESIGN

Login



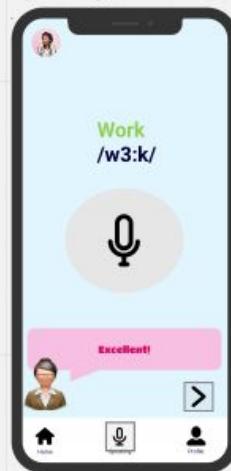
Home Page



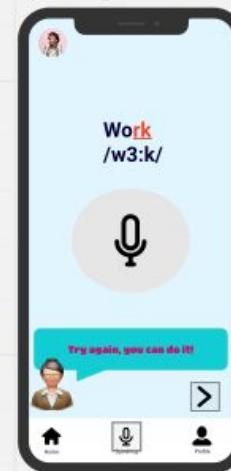
Speaking



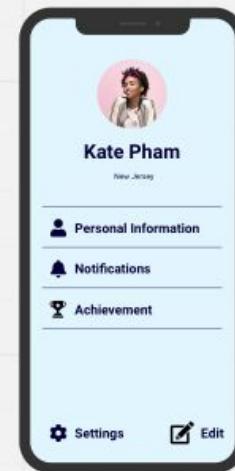
Speaking



Speaking



Profile





◀ 05 ▶

TECHNOLOGIES

Coding languages



JavaScript

Databases



Tools



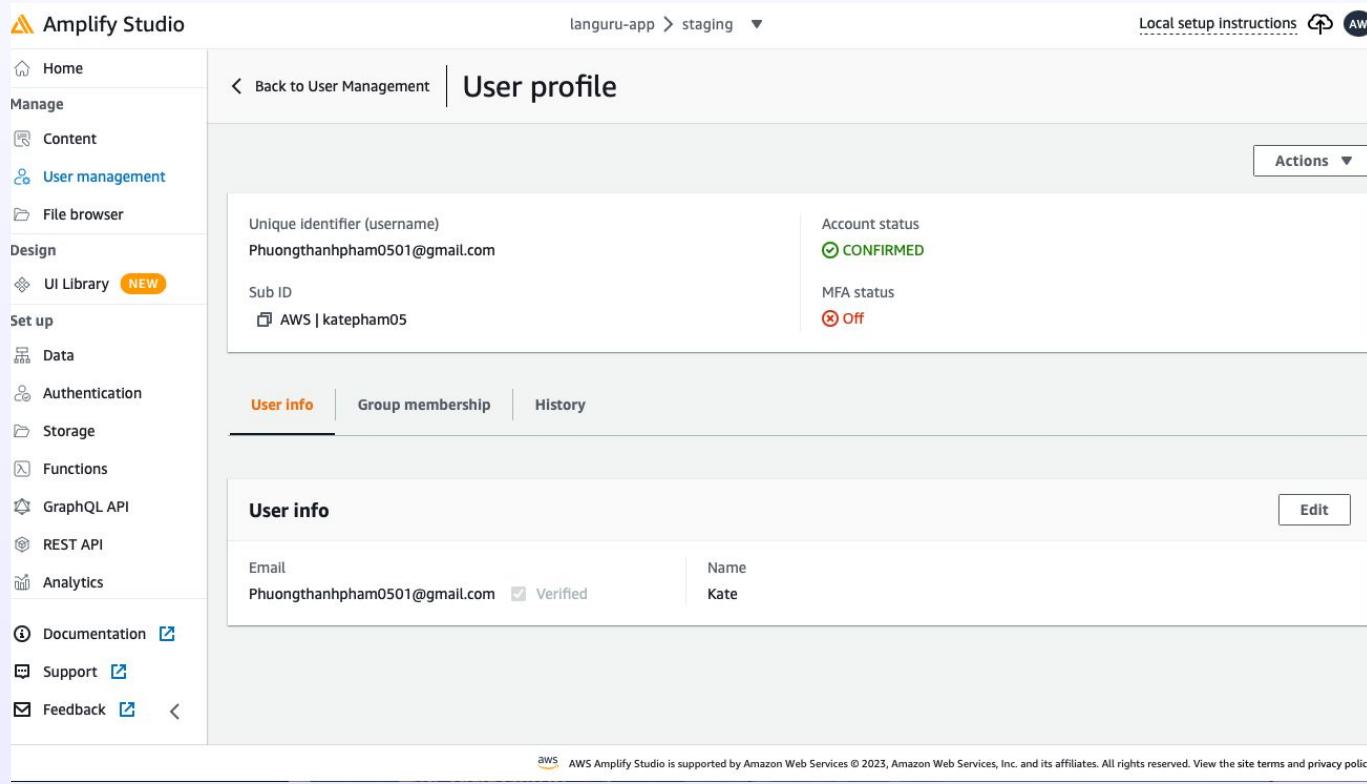
AWS Amplify Studio was used to manage authenticated users, authentication flow.

The screenshot shows the AWS Amplify Studio interface for managing users. The left sidebar has a 'User management' section selected. The main area is titled 'User management' with the sub-section 'Users' selected. It displays a table of users with columns for Login, Created Date, and Status. There are four users listed:

Login	Created Date	Status
Phuongthanpham0501@gmail.com	April 17, 2023 4:44 PM	CONFIRMED
Musansht@gmail.com	April 17, 2023 5:10 PM	UNCONFIRMED
Musansht@gmail.com	April 17, 2023 5:08 PM	UNCONFIRMED

At the bottom, there is a footer note: "AWS Amplify Studio is supported by Amazon Web Services © 2023, Amazon Web Services, Inc. and its affiliates. All rights reserved. View the site terms and privacy policy."

AWS Amplify Studio was used to manage user's data



The screenshot shows the AWS Amplify Studio interface for managing user profiles. The left sidebar contains navigation links for Home, Manage, Content, User management, File browser, Design, UI Library (NEW), Set up, Data, Authentication, Storage, Functions, GraphQL API, REST API, Analytics, Documentation, Support, and Feedback. The main content area is titled "User profile" and shows details for a user with the unique identifier "Phuongthanpham0501@gmail.com". The account status is "CONFIRMED" (green checkmark) and the MFA status is "Off" (red X). Below this, there are tabs for "User info", "Group membership", and "History", with "User info" currently selected. The "User info" section displays the email "Phuongthanpham0501@gmail.com" (verified, indicated by a green checkmark) and the name "Kate". At the bottom of the page, a footer note states: "AWS Amplify Studio is supported by Amazon Web Services © 2023, Amazon Web Services, Inc. and its affiliates. All rights reserved. View the site terms and privacy policy."

Amplify Studio

languru-app > staging

Local setup instructions

Actions

Home

Manage

Content

User management

File browser

Design

UI Library NEW

Set up

Data

Authentication

Storage

Functions

GraphQL API

REST API

Analytics

Documentation

Support

Feedback

Back to User Management

User profile

Unique identifier (username)
Phuongthanpham0501@gmail.com

Sub ID
AWS | katepham05

Account status
CONFIRMED

MFA status
Off

User info

Group membership

History

User info

Email
Phuongthanpham0501@gmail.com Verified

Name
Kate

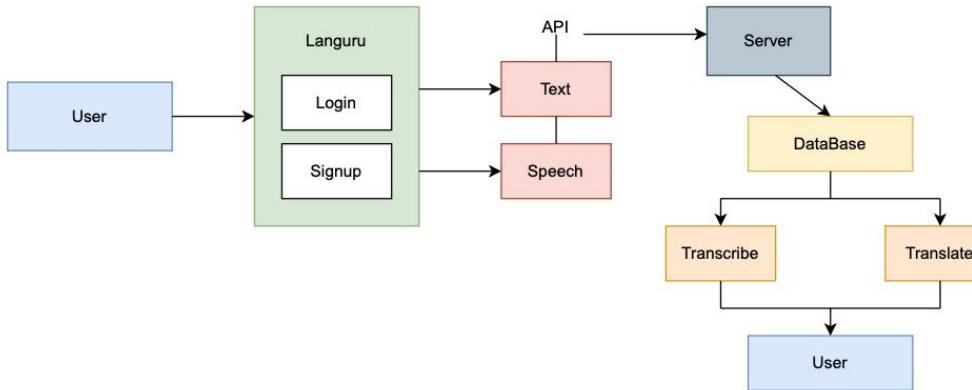
AWS Amplify Studio is supported by Amazon Web Services © 2023, Amazon Web Services, Inc. and its affiliates. All rights reserved. View the site terms and privacy policy.



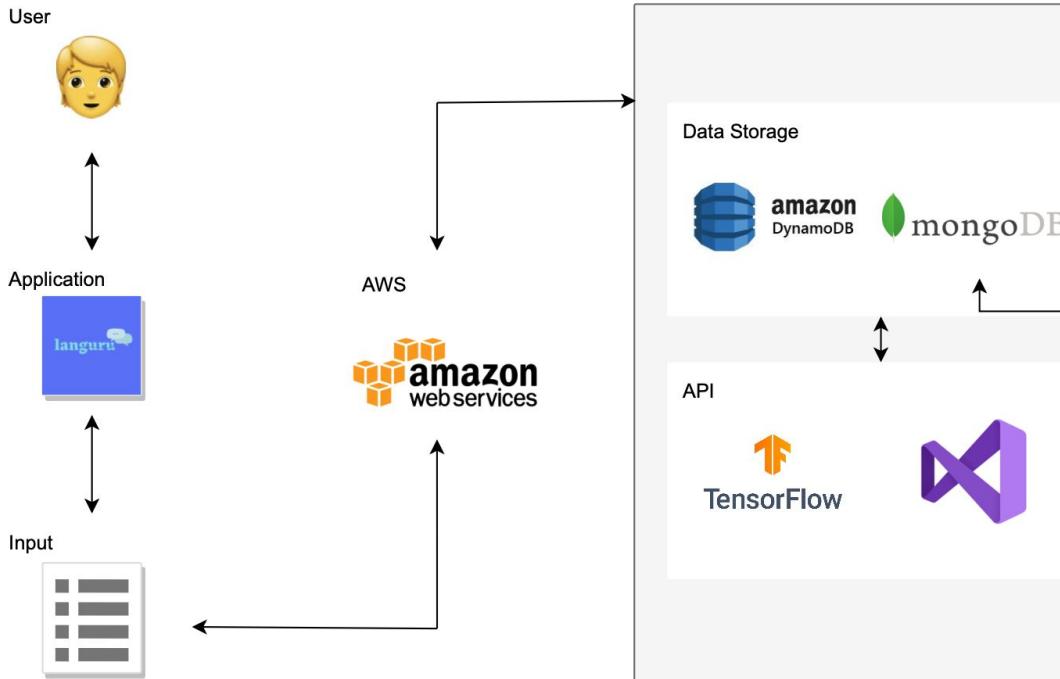
◀ 06 ▶

ARCHITECTURE DESIGN

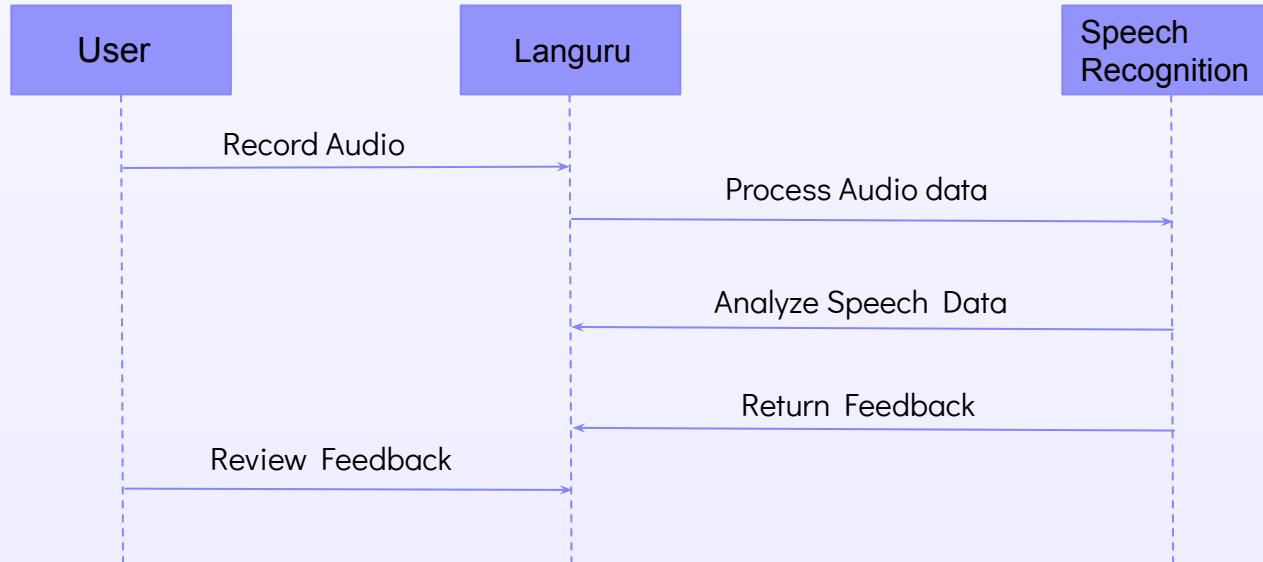
System Diagram



Conceptual Architecture Diagram



SEQUENCE DIAGRAM





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SPRINTS RECAP

SPRINT 3 VS SPRINT 4



SPRINT 3

- LOGIN PAGE
- SIGN UP
- HOME PAGE
- RECORD PAGE WITH SCORE FUNCTION
- PROFILE PAGE BASIC
- SETTING PAGE BASIC



SPRINT 4

- User can see which part of the word was pronounced correctly and incorrectly
- Add more words for user to practice with.
- User can manage their information.

SPRINTS RECAP

SPRINT 1

- Brainstorming Project Ideas
- Finalizing Project Idea
- Awaiting Approval
- Setting up JIRA & GitHub
- Assign Team Roles
- Finalizing Team Working Agreement
- Finalizing Technologies

SPRINT 2

- Creating a Mock Up Design of the application
- Came up with Sequence and Architectural illustrations
- Designed User Stories & Test Cases
- Developed basic functionalities of recording and playing back in the application

SPRINT 3

- Introduced more user stories for profile page
- Developed Login, SignUp and Home screens
- Developed the functionalities of scoring for recording.
- Developed Profile page and Settings page basic features

SPRINTS RECAP

SPRINT 1 SUMMARY

- Started with project ‘Languru’ to help personnel improve their English skills.
- Decided on Technologies, assigned team member roles.
- Received approval from the Project Manager to go ahead with the development of the idea.
- Finalized the Team Working agreement.
- Set up JIRA and GitHub tools.

SPRINTS RECAP

SPRINT 1 PRODUCT BACKLOG

Sprint 1

	Task	Status	Priority	Timeline	Estimation(Days)	
<input type="checkbox"/>	Get approval for the project idea		Done	Critical	Feb 2 - 15	5
<input type="checkbox"/>	Setup Project Tools(Github and Jira)		Done	High	Feb 2 - 15	2
<input type="checkbox"/>	Create Team Roles		Done	Medium	Feb 2 - 15	2
<input type="checkbox"/>	Establish weekly meetings		Done	Medium	Feb 2 - 15	1
<input type="checkbox"/>	Divide work		Done	Medium	Feb 2 - 15	1
<input type="checkbox"/>	Complete deliverable 1		Working on it	Critical	Feb 2 - 15	4
<input type="checkbox"/>	+ Add Task					

SPRINTS RECAP

SPRINT 2 SUMMARY

- Illustrated Minimum Viable Product (MVP) of the application.
- Designed the Mock Up of the application.
- Designed User Stories and Acceptance Criteria.
- Created Test Cases and performed Unit Testing on the application.
- Recorded a small demo of the working of the application, including basic functionality such as Recording.

SPRINTS RECAP

SPRINT 2 PRODUCT BACKLOG

Product Backlog Add dates (11 issues)

0 0 0 Start sprint ...

<input checked="" type="checkbox"/> CP-23 Develop voice recognition technology to provide real-time feedback on pronunciation accuracy	TO DO	
<input checked="" type="checkbox"/> CP-24 Create a database of words and phrases for learners to practice speaking	TO DO	
<input checked="" type="checkbox"/> CP-25 Develop algorithms to analyze user pronunciation and provide personalized recommendations for are...	TO DO	
<input checked="" type="checkbox"/> CP-26 Implement security and privacy measures to ensure a safe and secure online environment for English I...	TO DO	
<input checked="" type="checkbox"/> CP-28 Develop algorithms to analyze user intonation and stress patterns and provide feedback	TO DO	
<input checked="" type="checkbox"/> CP-29 Create a progress tracking system for users to monitor their improvement over time	TO DO	
<input checked="" type="checkbox"/> CP-32 Create contextual practice scenarios for learners to practice their pronunciation in different settings	TO DO	
<input checked="" type="checkbox"/> CP-33 Provide access to a variety of English accents for learners to practice with	TO DO	
<input checked="" type="checkbox"/> CP-34 Develop algorithms to analyze user grammar and syntax and provide feedback	TO DO	
<input checked="" type="checkbox"/> CP-35 Develop a feature that allows users to record their voice and receive real-time feedback on their pronu...	TO DO	
<input checked="" type="checkbox"/> CP-36 Provide users with access to a large database of English words and phrases, so they can practice their ...	TO DO	

+ Create issue

SPRINTS RECAP

SPRINT 3 SUMMARY

- Developed Login, SignUp, Home and Settings screens
- Designed User Stories and Acceptance Criteria.
- Created Test Cases and performed Unit Testing on the application.
- Captured and presented basic screenshots of the working of the application.
- Developed functionalities such as Recording, Playback, Scoring etc.,

SPRINTS RECAP

SPRINT 3 PRODUCT BACKLOG

SPRINT 3 BACKLOG

Issue type	Key	Name
Story	LNG-97	As a user, I want to create a login and sign-up page to access the Languru app.
Story	LNG-98	As a user, I want to create and edit my user profile, so that my preferences and progress are saved.
Story	LNG-88	As a user, I want to see my score and receive feedback on my pronunciation and fluency.
Story	LNG-87	As a user, I want to recover my account and reset my password if I forget it.
Task	LNG-89	Draft Technical Paper

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PRODUCT BACKLOG AND SPRINT BACKLOG

PRODUCT BACKLOG

Story	LNG-102	As a user, I want to keep track of my progress in pronunciation and fluency So that I can see my improvement over time.
Story	LNG-103	As a user, I want large database choice of words and phrases to practice my speaking
Story	LNG-104	As a user, I need access to variety of english accents to practice with
Story	LNG-105	As a user, i want a feedback to analyze my stress and intonation patterns
Story	LNG-106	As a user, I want to access and manage my personal settings So that I can customize my learning experience according to my preferences.
Story	LNG-108	As a user, i want contextual practice scenarios to practice my pronunciation in different settings
Story	LNG-109	As an application user, I should received the feedback on which part of the word was pronounced correctly or incorrectly.

SPRINT 4 BACKLOG

Issue type	Key	Name
Story	CP-44	As an application user, i should be able to use record function to different topics page
Story	CP-44	As an application user, I should be able to edit my personal information such as First Name, Last Name, Age, Gender, Location
Story	CP-44	As an application user, i should be able to practice with more words and phrases
Story	CP-44	As an application user, I should received the feedback on which part of the word was pronounced correctly or incorrectly.
Task	CP-44	Finish Technical paper
Task	CP-44	Finish Deployment Manual

STORIES COMPLETED AND STORIES NOT COMPLETED

Name	Status	Date
As an application user, i should be able to use record function to different topics page	Done	04/30/2023
As an application user, I should be able to edit my personal information such as First Name, Last Name, Age, Gender, Location	Done	04/30/2023
As an application user, i should be able to practice with more words and phrases	Done	04/30/2023
As an application user, I should received the feedback on which part of the word was pronounced correctly or incorrectly.	Done	05/01/2023
Finish Technical paper	Done	05/01/2023
Finish Deployment Manual	Done	05/02/2023



STORIES and

ACCEPTANCE CRITERIA

STORIES and ACCEPTANCE CRITERIA

Scenario	Summary	Criteria
1. User is looking for feedback for their speaking	Given I'm in a role of user who bad at pronounce in English Then Languru can give feedback	Languru App should provide an accurate feedback after received user record.
2. User want to practice on different topics	Given I'm in the role of user When I'm click on Speaking page Then a list of topics show up for user to choose	Languru App should provide different topics for users can practice on what they want.
3. User have trouble cannot improve their speaking after many tries with the same word	Given I'm a role of user When many tries Then the system will show the IPA pronunciation for user to follow.	Languru App should provide International Phonetic Alphabet (IPA) of each word for user easier to practice.
4. User want to manage their information	Given I'm in the role of user When open the app, click on profile Then I can edit my personal information.	Languru App should allow user can manage, edit or update their profile.
5. User want to highlight which part of the word was pronounce incorrect or nearly correct.	Given I'm in the role of user When I record my pronunciation Then I can see which part I need to improve.	Languru App should underline or highlight the error or the word was pronounce incorrectly.

TEST CASES



TEST CASE ID	TEST SCENARIO	TEST CASE	PRE-CONDITION	TEST STEPS	TEST DATA	EXPECTED RESULT	ACTUAL RESULT	STATUS (PASS/FAIL)
TC_LOGIN_1	Verify the login of email	Enter valid User Name and valid Password	1. Need a valid email Account to do login	1. Enter User Name 2. Enter Password 3. Click "Login" button	<Valid User Name> <Valid Password>	Login Successful	Login Successful	PASS
TC_LOGIN_1	Verify the login of email	Enter valid User Name and invalid Password	1. Need a valid email Account to do login	1. Enter User Name 2. Enter Password 3. Click "Login" button	<Valid User Name> <Invalid Password>			
TC_LOGIN_1	Verify the login of email	Enter invalid User Name and valid Password	1. Need a valid email Account to do login	1. Enter User Name 2. Enter Password 3. Click "Login" button	<Invalid User Name> <Valid Password>			
TC_LOGIN_1	Verify the login of email	Enter invalid User Name and invalid Password	1. Need a valid email Account to do login	1. Enter User Name 2. Enter Password 3. Click "Login" button	<Invalid User Name> <Invalid Password>	A message "The email or password you entered don't match" is shown	A message "The email or password you entered don't match" is shown	PASS

TEST CASE ID	TEST SCENARIO	TEST CASE	PRE-CONDITION	TEST STEPS	TEST DATA	EXPECTED RESULT	ACTUAL RESULT	STATUS (PASS/FAIL)
TC_SIGNUP_2	Verify sign up	Enter valid User Name and valid Password	1. Need a valid user name and password (characters and number from1 to 9) to sign up	1. Enter User Name 2. Enter Password 3. Click "signup" button	<Valid User Name> <Valid Password>	Sign up Successful	Sign up Successful	PASS
TC_SIGNUP_2	Verify sign up	Enter used User Name	1. Need a valid user name and password (characters and number from1 to 9) to sign up	1. Enter User Name 2. Enter Password 3. Click "signup" button	<used Username >	A message "The user name is already used" is shown	A message "The user name is already used" is shown	PASS
TC_SIGNUP_2	Verify sign up	Enter invalid User Name and invalid Password	1. Need a valid user name and password (characters and number from1 to 9) to sign up	1. Enter User Name 2. Enter Password 3. Click "signup" button	<Invalid Password>	A message "password don't match our requires" is shown	A message "password don't match our requires" is shown	PASS

TEST CASE ID	TEST SCENARIO	TEST CASE	TEST STEPS	TEST DATA	EXPECTED RESULT	ACTUAL RESULT	STATUS (PASS/FAIL)
TC_HOMEPAGE_3	Verify the HOME PAGE	A welcome message should show up on screen			Check if a welcome message appear on the home screen		PASS
TC_HOMEPAGE_3	Verify the HOME PAGE					
		User should be able to search from homepage			Homepage can show expected results.	
						
TC_HOMEPAGE_3	Verify the HOME PAGE	User should be able to open the home page			Homepage should appear when user click on it.		PASS

TEST CASE ID	TEST SCENARIO	TEST CASE	PRE-CONDITION	TEST STEPS	TEST DATA	EXPECTED RESULT	ACTUAL RESULT	STATUS (PASS/FAIL)
TC_FGPASS_6	Check on Forgot Password	Should direct to the email in order to change password.				Password resetted and send back to login page.		PASS

TEST CASE ID	TEST SCENARIO	TEST CASE	PRE-CONDITION	TEST STEPS	TEST DATA	EXPECTED RESULT	ACTUAL RESULT	STATUS (PASS / FAIL)
TC_PROFILE_4	Check on Profile editable					Users can existing profile information successfully.		PASS
TC_PROFILE_4	Check on features in Profile page					On the Profile page, users should be able to see list of features		PASS

TEST CASE ID	TEST SCENARIO	TEST CASE	PRE-CONDITION	TEST STEPS	TEST DATA	EXPECTED RESULT	ACTUAL RESULT	STATUS (PAS S/ FAIL)
TC_SPEAKING_5	Verify the speaking page	User should be able to record their voice				Record voice sucessfully		PASS
TC_SPEAKING_5	Verify the speaking page	User should be able to see their feedback after they recorded their voice.				The score will show up after voice was recorded.		PASS
TC_SPEAKING_5	Verify the speaking page	User should be able to see the topics that they want to practice and open it				The topics category will show up as expected.		PASS
TC_SPEAKING_5	Verify the speaking page	User should be able to see where was pronounce incorrectly.				User can see the part was pronounce incorrect which is underlined.		PASS
TC_SPEAKING_5	Verify the speaking page	User should be able to access the Speaking page				User can see the part was pronounce incorrect which is underlined.		PASS



◀ 09 ▶

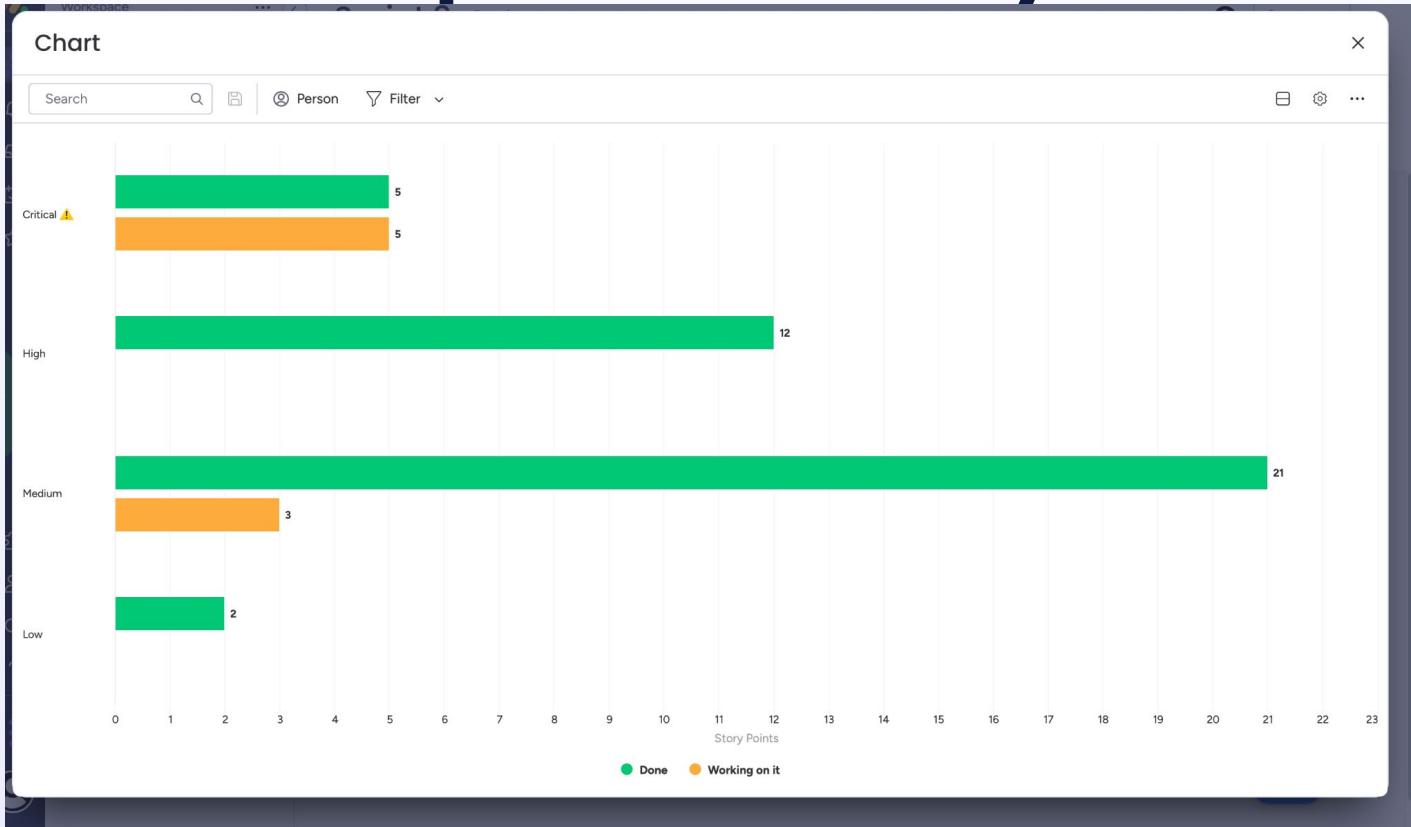
METRICS

SPRINT 4 BURNDOWN CHART

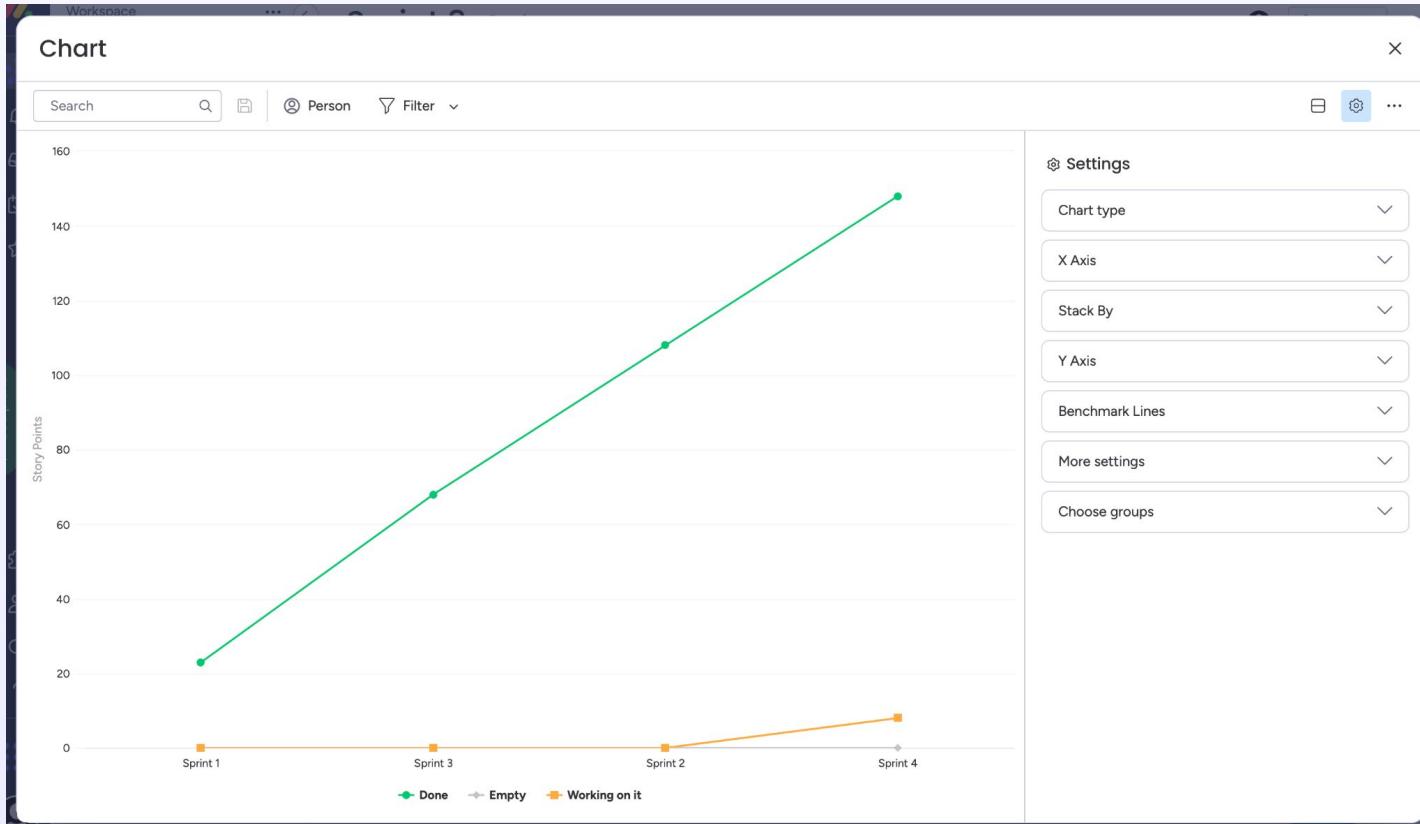
Sprint 4

<input type="checkbox"/>	Task	Status	Priority	Story Points	+					
<input type="checkbox"/>	Deliverable 3 Video		Working on it	Critical	5					
<input type="checkbox"/>	Deliverable 3 PPT		Done	Critical	5					
<input type="checkbox"/>	Product Backlog		Done	High	4					
<input type="checkbox"/>	Sprint Burndown		Done	Medium	3					
<input type="checkbox"/>	Retrospective		Done	Medium	3					
<input type="checkbox"/>	Test Cases		Done	High	4					
<input type="checkbox"/>	Metrics		Done	Medium	3					
<input type="checkbox"/>	Tasks for Sprint 5		Done	Low	2					
<input type="checkbox"/>	Team historical Velocity		Done	Medium	3					
<input type="checkbox"/>	Stories committed/completed/not co...		Done	Medium	3					
<input type="checkbox"/>	API slides		Working on it	Medium	3					
<input type="checkbox"/>	Live application demo		Done	High	4					
<input type="checkbox"/>	Deployment Manual		Done	Medium	3					
<input type="checkbox"/>	User Manual		Done	Medium	3					
<input type="checkbox"/>	+ Add task									
48 sum										

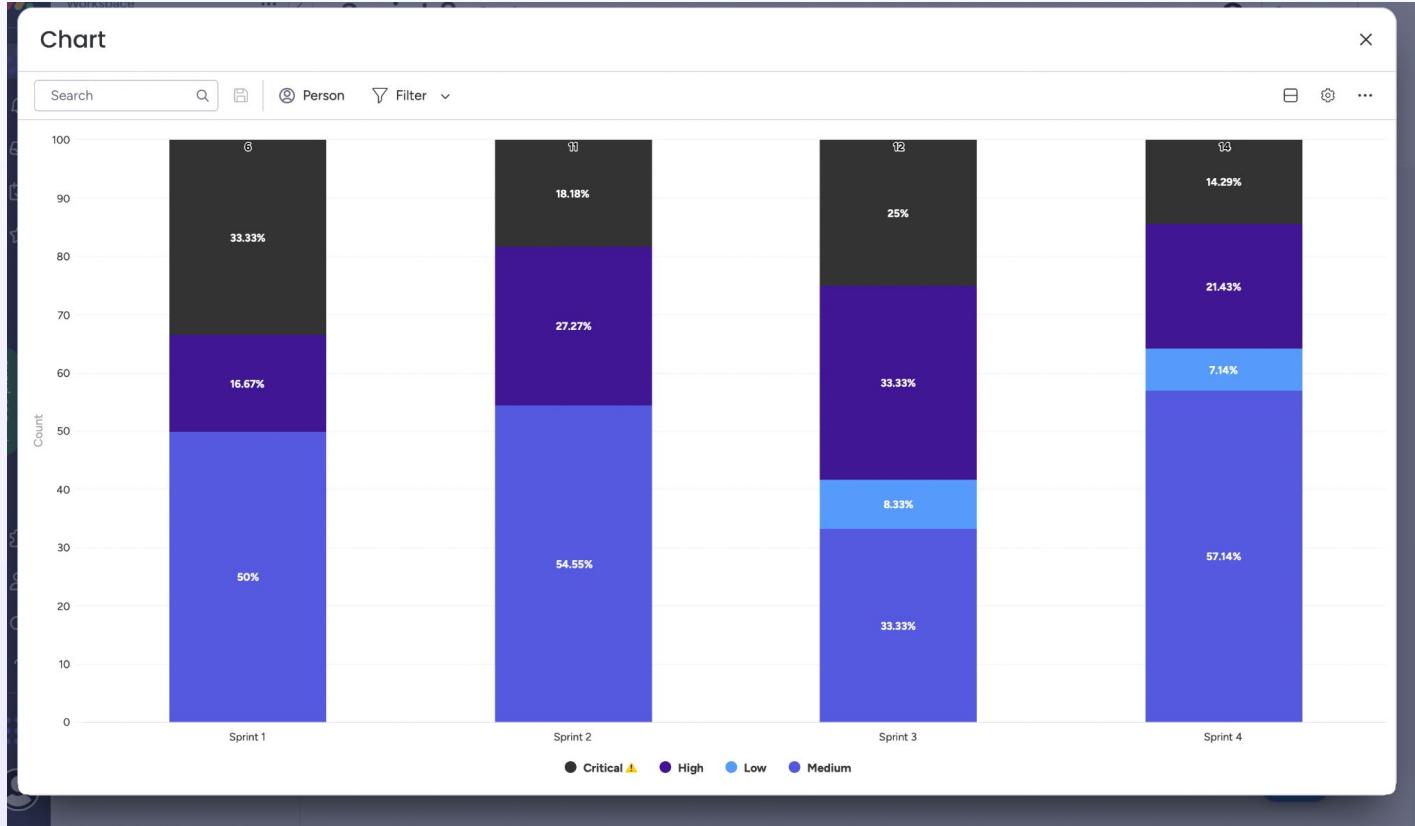
Sprint 4 Velocity



TEAM HISTORY VELOCITY



TEAM Ratio





◀ 10 ▶

RETROSPECTIVE

RETROSPECTIVE

WHAT WENT WELL



- Completed our work on time
- The Languru app at this sprint was implemented by more functions.

WHAT NEED TO IMPROVE



- We need to enhance the interface of the application to give it a more appealing and visually pleasing appearance.

NEXT STEPS



- The team will try to add more features and functions to Languru app.



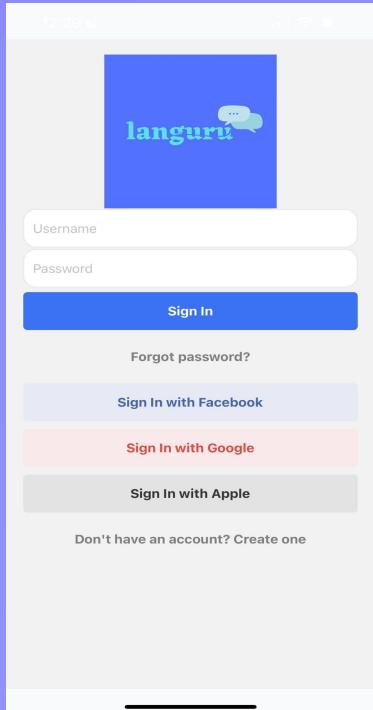
◀ **11** ▶

SPRINT 5

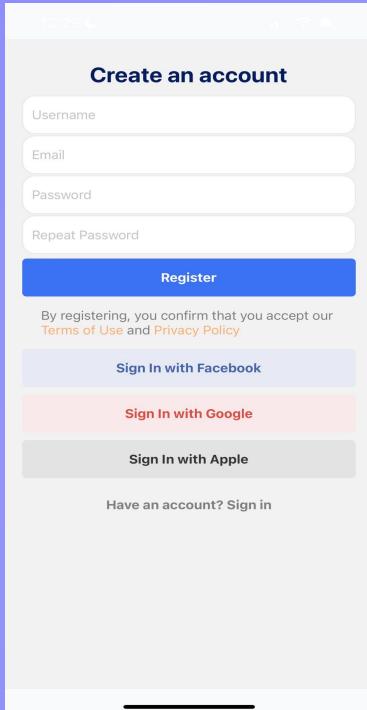
Stories planned and committed for Sprint 5

Issue Type	Key	Name	Status	Story Point Estimate
Story		As an user, I want to keep track of my progress in pronunciation and fluency So that I can see my improvement over time.	To do	3
Story		As an user, I want to practice with longer sentences.	To do	5

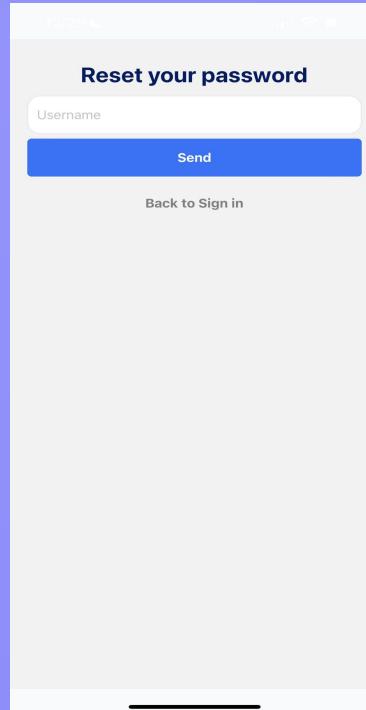
LANGURU APP SCREENSHOTS



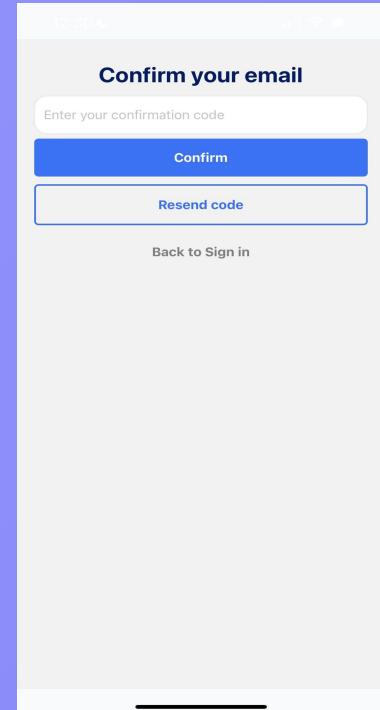
Sign in page



Sign up page

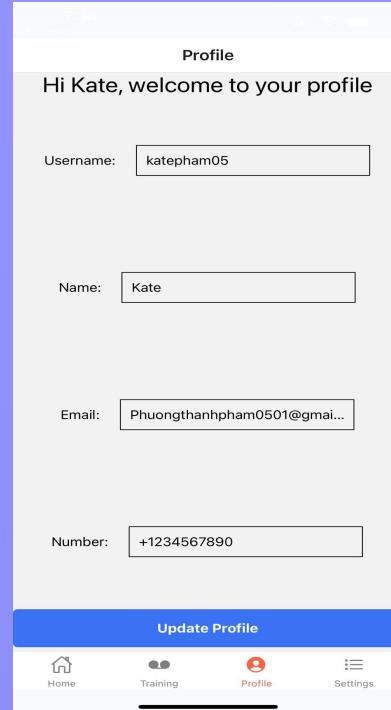
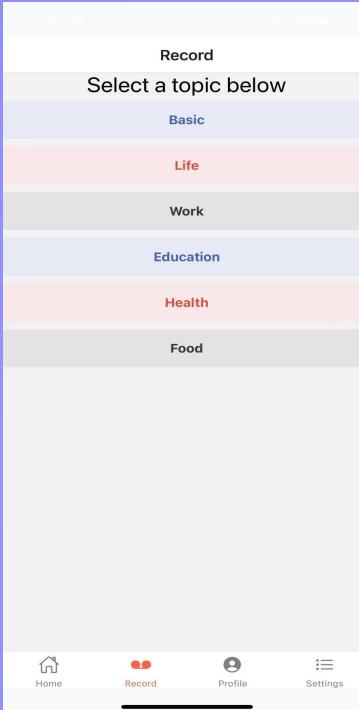


Forgot password



After register

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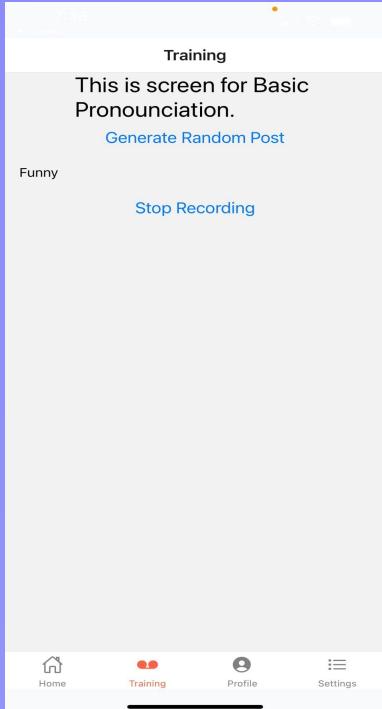
Home page

Training page

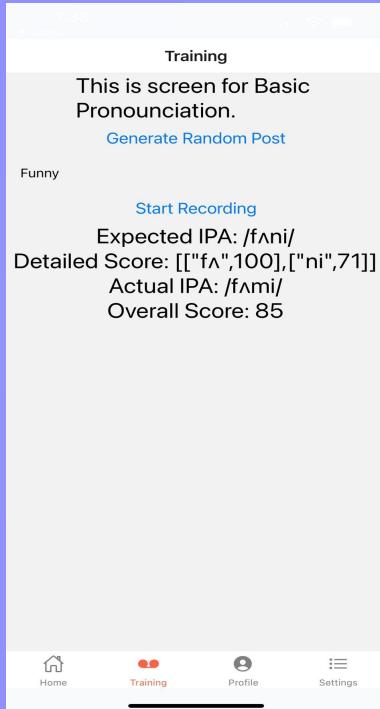
Profile Page

Setting Page

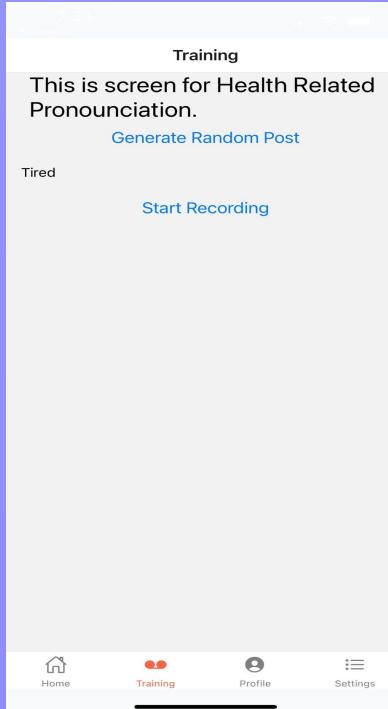
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Basic Screen



Scored in Basic screen



Health Page

LIVE APPLICATION DEMO





Project links



Github Link

<https://github.com/htmwlangu/wikii>



Technical paper link

[Technical paper link](#)



User manual link

[User Manual Link](#)



Deployment manual link

[Deployment Manual Link](#)



THANK YOU!

—TEAM 5 RADIANT

languru

