



Radiant Team



Record



Home



Quiz

Capstone Project: LANGURU

Fall 23 - CS 692 - PACE UNIVERSITY

Prof: Henry Wong



Our team



Kate Pham

Developer,
Scrum Master



Indeevara Tadikonda

Developer

Our team



**Hari harammurthy
Krishnamoorthy**
Quality Analyst and
Tester



Musa Nishat
Developer



Noel Sam Routhu
Front-end Developer



Agenda



01 Project Description

02 Team Working Agreement

03 Personas

04 Minimal Viable Product

05 Technologies & Diagrams

06 Sprints Recap



Agenda



07 Improvement

10 Retrospective

08 Sprint Backlog &
Sprint 7 Backlog

11 Future Scope

09 Metrics

12 Live Application
Demo



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01



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:	



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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
Hariharammurthy Krishnamoorthy	hk97281n



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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

Motivations:

- Convenience
- High Quality
- Price

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



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04

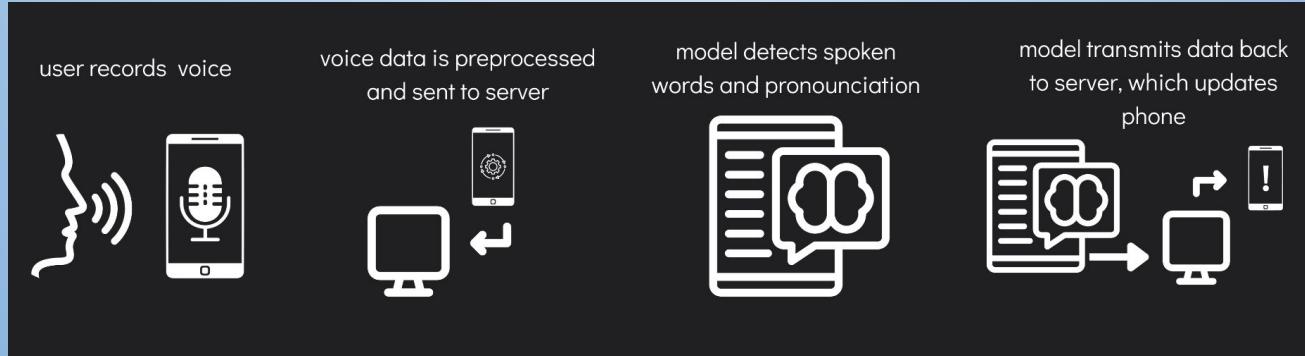


**Minimal Viable Product
(MVP)**

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:

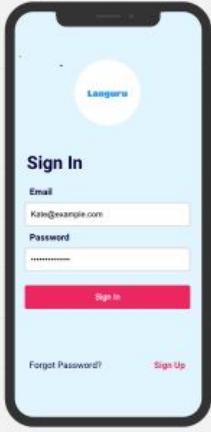
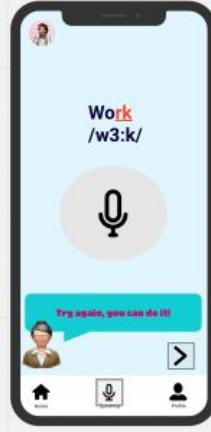
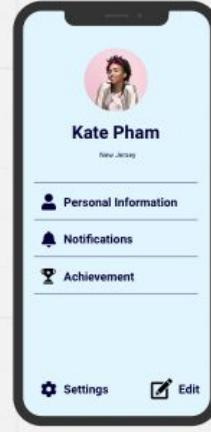




Our LOGO

The app's name : “Languru” cleverly merges “language” and “guru” to signify its purpose. The dominant theme for the application will be a soothing shade of blue, reflecting a tranquil and user-friendly.

Mock up design

Login	Home Page	Speaking	Speaking	Speaking	Profile
					



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05



Technologies and Diagrams



Technologies



Coding Language
Javascript, Python



Database
Amazon Web Services
(Amplify, S3)



Tools
AWS, React Native, Git, Github, Xcode,
Visual Studio Code, Expo, Jira.





AWS Amplify was used to manage authenticated users, and authentication flow

Amplify Studio

languru-app > staging ▾

Local setup instructions AW

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

User management

Create, view, and manage users and groups for your application.

Users Groups

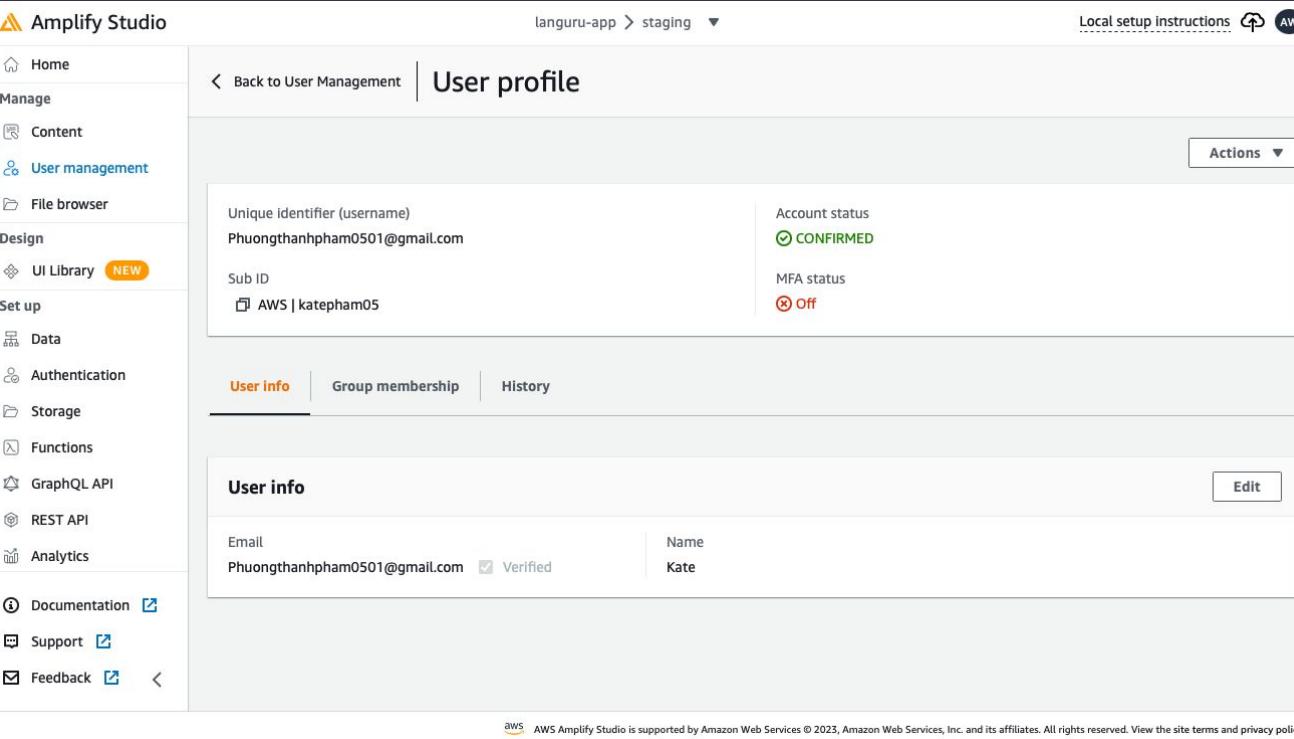
Users

Search Username Find users by Username

<input type="checkbox"/>	Login	Created Date	Status
<input type="checkbox"/>	Phuongthanhpham0501@gmail.com	April 17, 2023 4:44 PM	CONFIRMED
<input type="checkbox"/>	Musansht@gmail.com	April 17, 2023 5:10 PM	UNCONFIRMED
<input type="checkbox"/>	Musansht@gmail.com	April 17, 2023 5:08 PM	UNCONFIRMED

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 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), Design (File browser, UI Library NEW), Set up (Data, Authentication, Storage, Functions, GraphQL API, REST API, Analytics), Documentation, Support, and Feedback.

The main content area displays a user profile for "User profile". The top navigation bar includes "Back to User Management", the current path "languru-app > staging", and "Local setup instructions" with download and AWS links.

The user profile details are as follows:

- Unique identifier (username): Phuongthanpham0501@gmail.com
- Sub ID: AWS | katepham05
- Account status: CONFIRMED (green checkmark)
- MFA status: Off (red crossed-out checkmark)

The profile is divided into tabs: User info (selected), Group membership, and History.

The User info section shows:

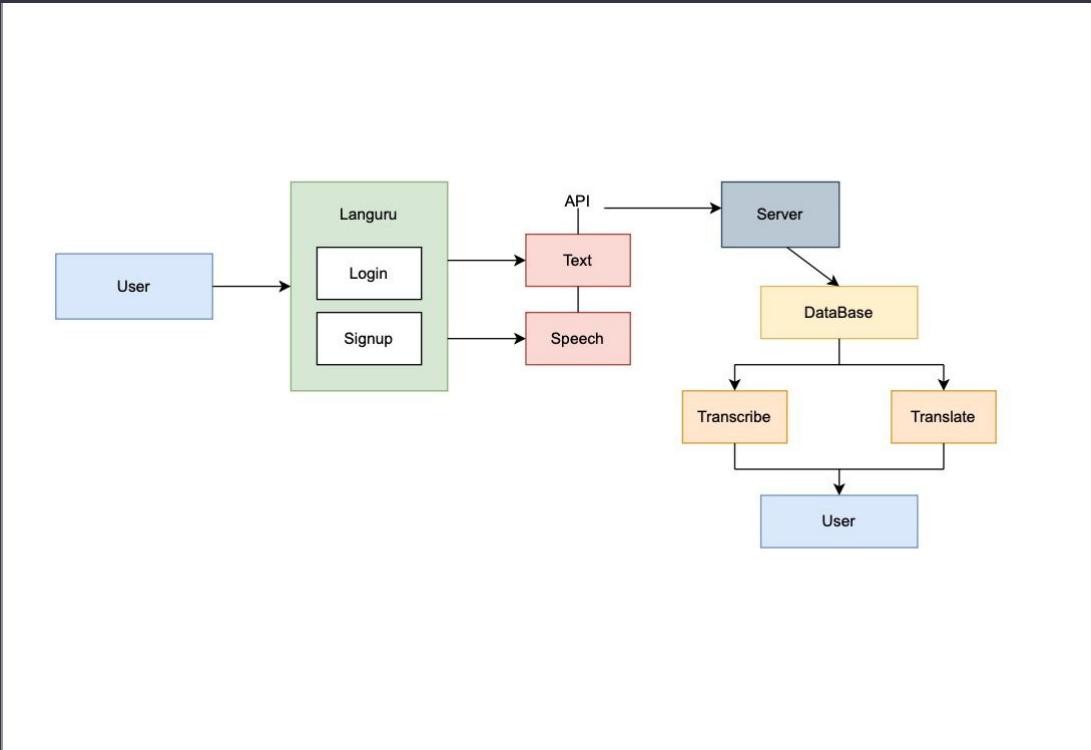
- Email: Phuongthanpham0501@gmail.com (Verified)
- Name: Kate

At the bottom, there is an "Edit" button for the user info section.

Page footer: 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.

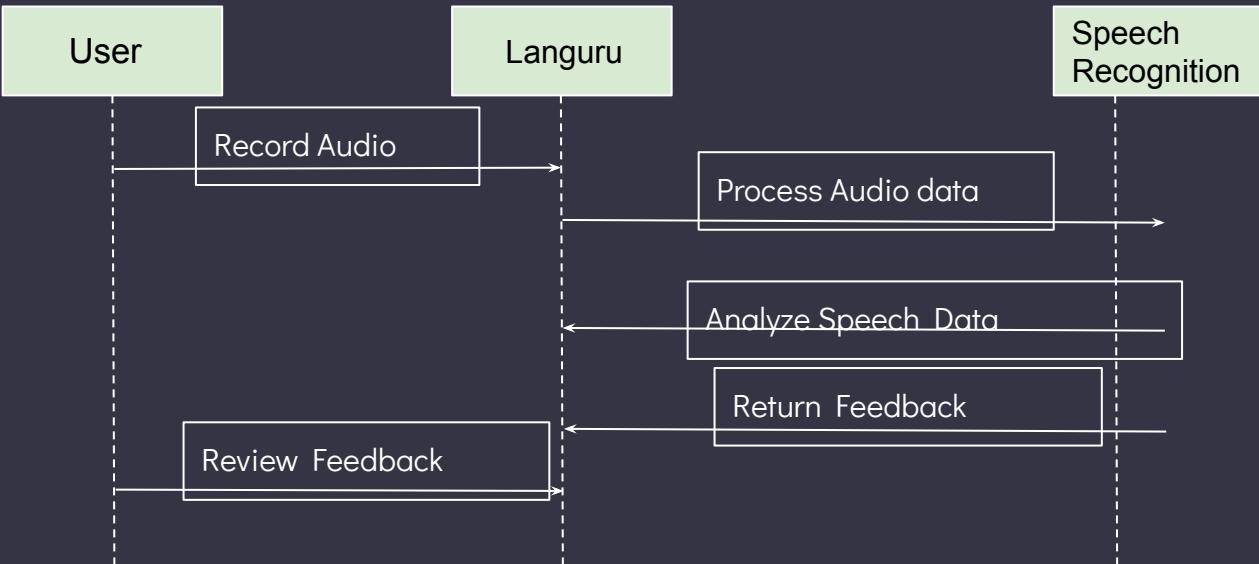


System Diagram





Sequence Diagram





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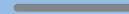


Quiz

06



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, Market Analysis

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

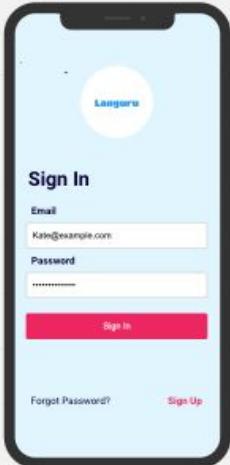
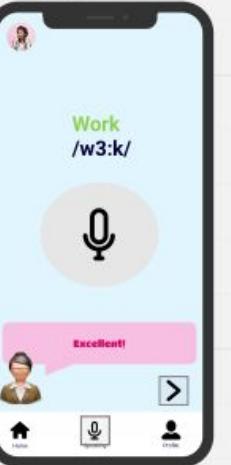
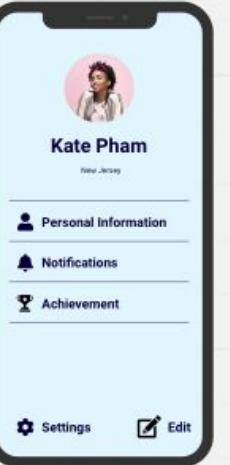
SPRINT 4

Introduced more user stories for words pronunciation, Developed features such that user can know which word was pronounced correctly, Developed User Information page

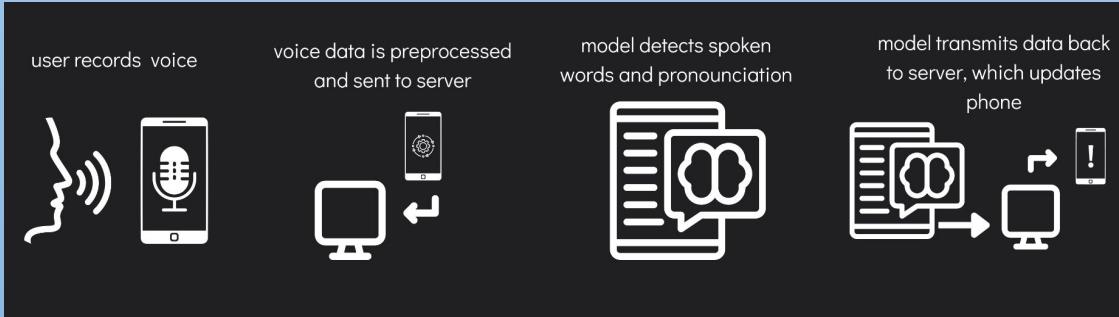


SPRINT 2

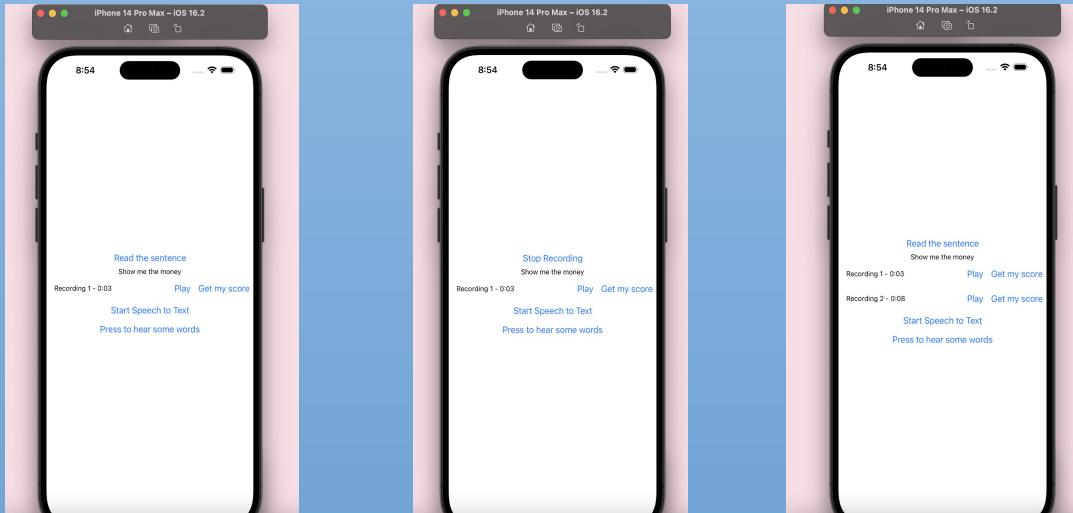
MOCK UP DESIGN

Login	Home Page	Speaking	Speaking	Speaking	Profile
					

MINIMAL VIABLE PRODUCT (MVP)



App Demo at Sprint 2

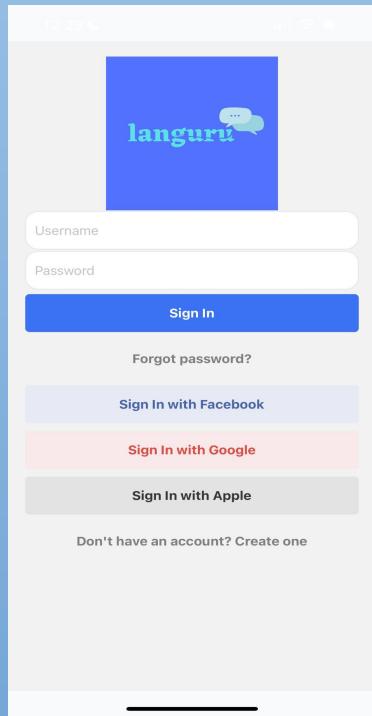


SPRINT 3 BACKLOG

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

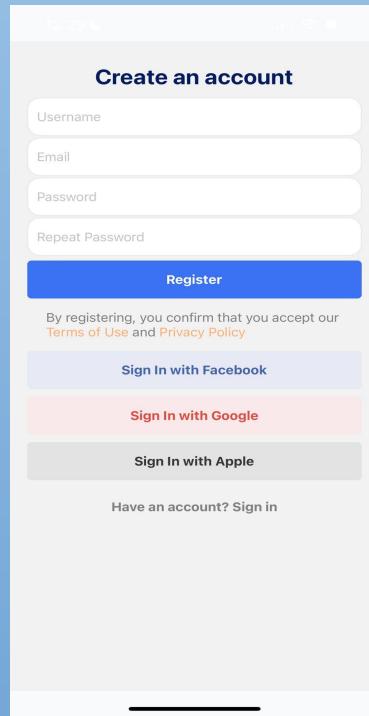


SPRINT 3



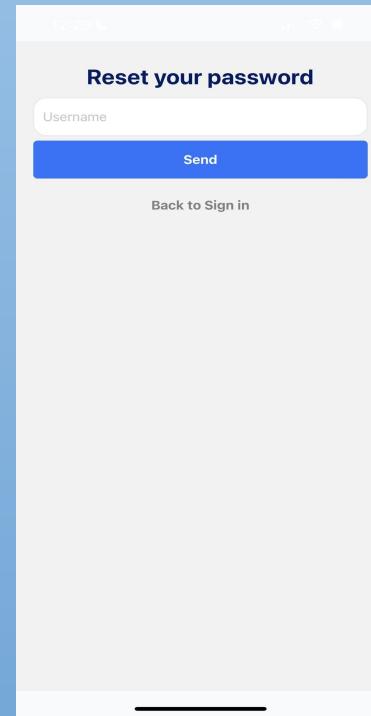
The sign in page features a large blue header with the languru logo. Below it are input fields for "Username" and "Password", followed by a prominent blue "Sign In" button. To the right of the button are links for "Forgot password?", "Sign In with Facebook", "Sign In with Google", and "Sign In with Apple". At the bottom is a link for "Don't have an account? Create one".

Sign in page



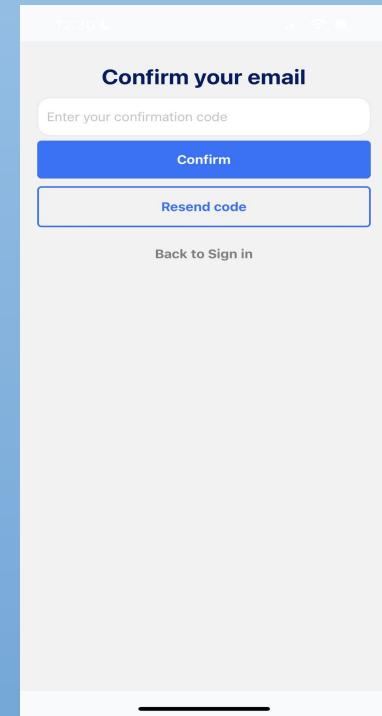
The sign up page has a header "Create an account". It includes four input fields: "Username", "Email", "Password", and "Repeat Password". Below these is a blue "Register" button. A note states: "By registering, you confirm that you accept our [Terms of Use](#) and [Privacy Policy](#)". It also features social media sign-in options: "Sign In with Facebook", "Sign In with Google", and "Sign In with Apple". At the bottom is a link for "Have an account? Sign in".

Sign up page



The forgot password page has a header "Reset your password". It contains a single input field for "Username" and a blue "Send" button. Below the button is a "Back to Sign in" link.

Forgot password

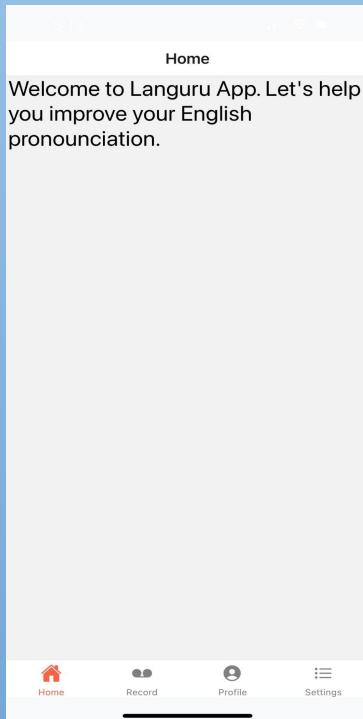


The after register page has a header "Confirm your email". It includes an input field for "Enter your confirmation code", a blue "Confirm" button, and a "Resend code" button. Below the buttons is a "Back to Sign in" link.

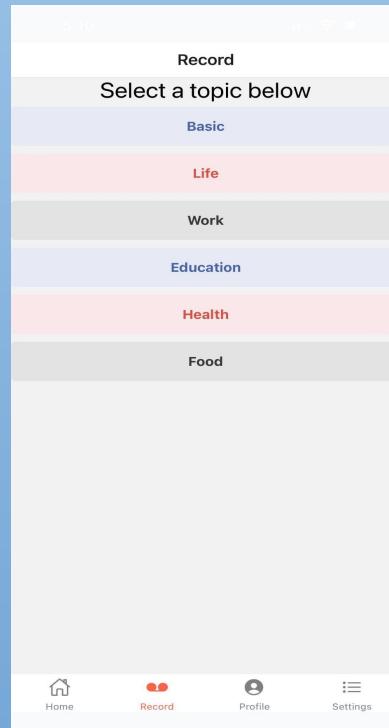
After register



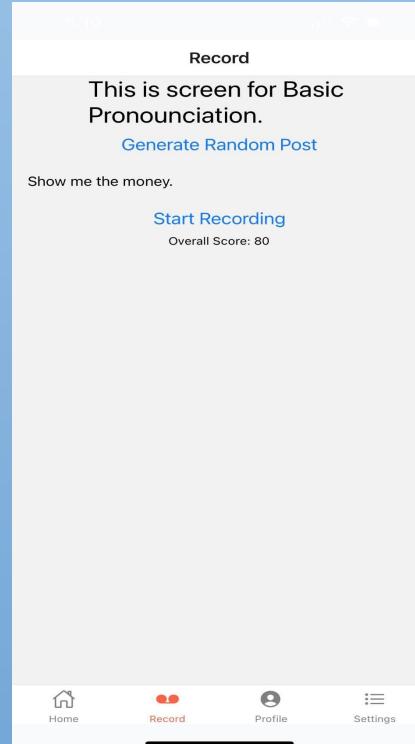
SPRINT 3



Home page

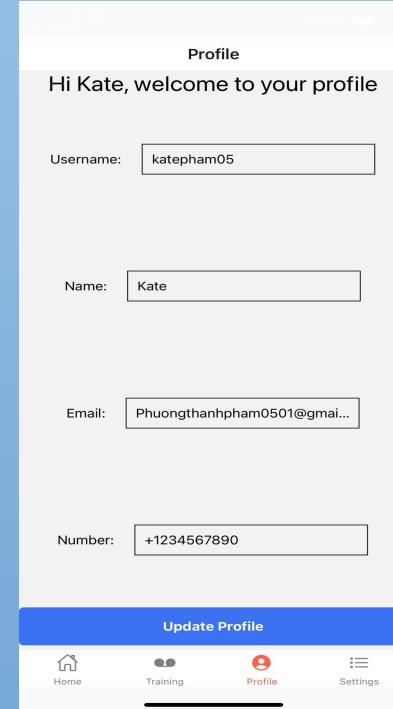
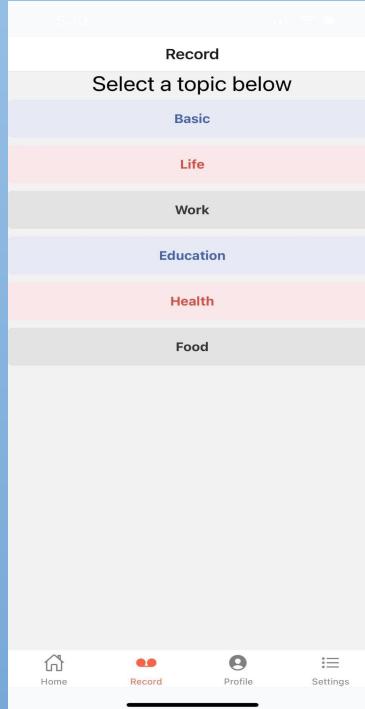


Record page 1



Record page 2

SPRINT 4



Home page

Training page

Profile Page

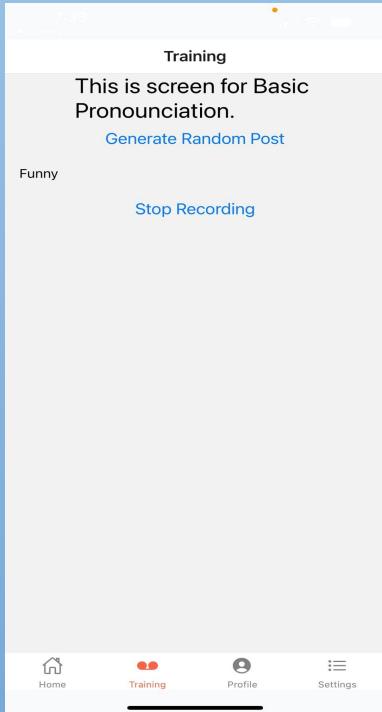
Setting Page

SPRINT 4 BACKLOG

Issue type	Key	Name
Story	LNG-101	As an application user, i should be able to use record function to different topics page
Story	LNG-121	As an application user, I should be able to edit my personal information such as First Name, Last Name, Age, Gender, Location
Story	LNG-120	As an application user, i should be able to practice with more words and phrases
Story	LNG-109	As an application user, I should received the feedback on which part of the word was pronounced correctly or incorrectly.
Task	LNG-90	Finish Technical paper for semester 1
Task	LNG-3	Finish Deployment Manual



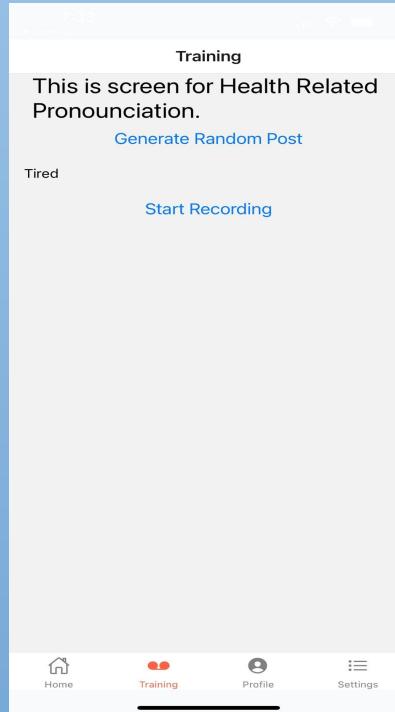
SPRINT 4



Basic Screen



Scored in Basic screen



Health Page



SPRINT 5

Made Recording Screen more friendly and easier to use for users.

Redesign UI for the app

SPRINT 6

Implemented Quiz Screen with multiple choices for user enhance their knowledge about pronunciation.

Improve user interface by creating icons for each topic



SPRINT 5

Issue type	Key	Name	Story Point Estimate
Story	ST-7	As an application user, I want to be able to practice with long sentences.	8
Story	LNG-110	As an application user, I want a user-friendly and intuitive interface that makes navigation and learning straightforward and enjoyable.	3
Story	ST-9	As an application user, I want my profile page have my avatar, personal information and eye-catching design.	3
Task	ST-10	Finish API Documentation	1
Task	ST-11	Update Technical Paper	5



SPRINT 5

The image displays four screenshots of the Languru app interface, illustrating the progression from the Home screen to various training modes.

Home Screen: Shows a welcome message: "Welcome to Languru App Kate. Let's help you improve your English pronunciation." Navigation icons at the bottom include Home (red), Training (blue), Profile (black), and Settings (grey).

Training Menu: A pink-themed screen titled "Training" with the sub-section "Select a topic below". It lists categories: Basic, Life, Work, Education, Health, and Food. Below this, under "Choose Advance Practice", it lists Quotation, Question, and Conversation. Navigation icons at the bottom are identical to the Home screen.

Basic Pronunciation Screen: Shows a light blue background with the title "Basic Pronunciation". It includes a "Generate Random Post" button, a "City" button, and a "Start Recording" button. A callout box displays pronunciation details: Expected IPA: /siti/, Detailed Score: [{"sr":44}, {"ti":100}], Actual IPA: /hit/i, Overall Score: 72.

Mobile Screen: Shows a light purple background with the title "Basic Pronunciation". It includes a "Generate Random Post" button, a "Mobile" button, and a "Start Recording" button. A callout box displays pronunciation details: Expected IPA: /moobal/, Detailed Score: [{"moo":0}, {"bal":81}], Actual IPA: /wə_əl/, Overall Score: 49.



SPRINT 5

Training

Quotation Topic Pronunciation

Generate Random Post

"Happiness is not by chance but by choice."

Start Recording

Home Training Profile Settings

Training

Conversation Topic Pronunciation

Generate Random Post

I like apples

Start Recording

Home Training Profile Settings

Training

Question Topic Pronunciation

Generate Random Post

Are you tired

Start Recording

Home Training Profile Settings

Profile

Welcome to my profile!

Name: Kate

Email: Katepham0501@gmail.com

Username: kate123

number: +1678987098

Bio: I have a curious mindset, and I enjoy exploring new things. Traveling to different places and experiencing new cultures fascinates me. Music is also a significant part of my life, and I find joy in discovering diverse genres and melodies.

Update Profile

Home Training Profile Settings

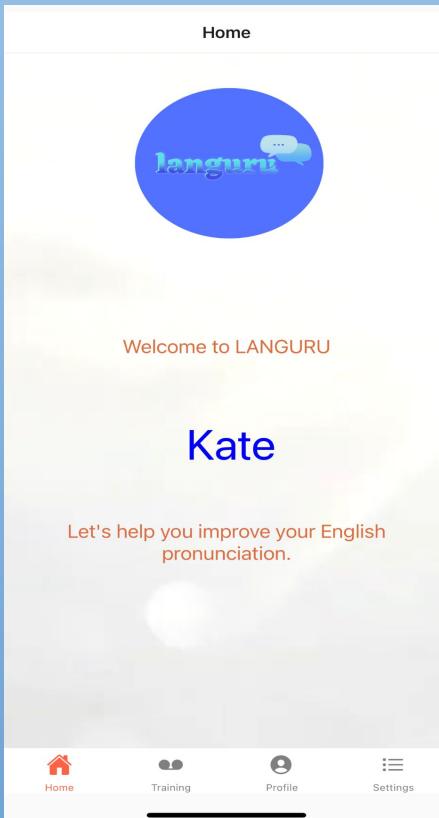
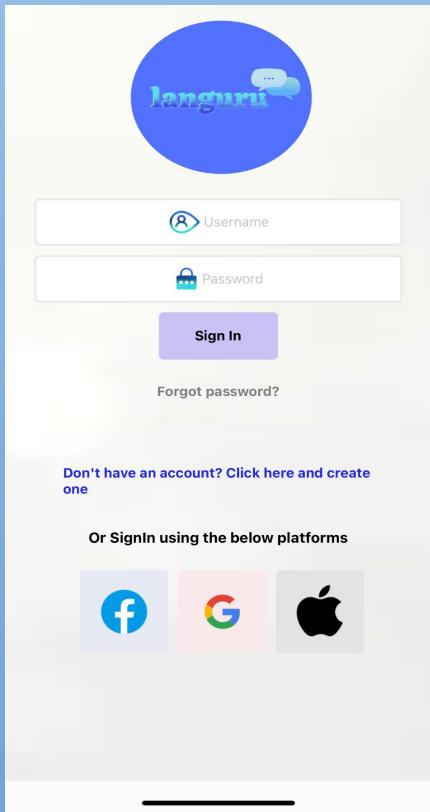


SPRINT 6

Issue type	Key	Name	Story Point Estimate
Story	LNG-110	As an app user, I want to improve my pronunciation knowledge through a quiz with many questions.	3
Story	LNG-111	As an app user, I would like to have icon buttons for each related function or topic	3
Story	LNG-112	As an app user, I would like to have logo in the homepage	1
Task	ST-11	Update Technical Paper	3



SPRINT 6





SPRINT 6

Training

Work Topic Pronunciation



GENERATE RANDOM POST

Career



Home Training Profile Settings

Training

Basic Topic Pronunciation



GENERATE RANDOM POST

City



Expected IPA: /sriti/
Detailed Score: [{"sr":21}, {"ti":100}]
Actual IPA: /ʃiti/
Overall Score: 60

Home Training Profile Settings

Training

Question Topic Pronunciation



GENERATE RANDOM POST

Are you tired



Home Training Profile Settings



SPRINT 6

Training

Question 1/10

1. What is the correct IPA for the word "Leisure"?

A. /li:.zər/
B. /lər.zər/
C. /lər.zjər/
D. /lər.zvər/

Home Training Profile Settings

Training

You scored : 3 / 10

Home Training Profile Settings

Profile

Welcome to my profile!

Name:
Noel Sam Routhu

Email:
nrouthuus@gmail.com

Username:
noel.sam.routhu

Contact Number:
+12012341948

Gender:
Male ▾

Update Profile

Sign Out

Home Training Profile Settings



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Quiz

07



Improvement



Improvements



- #1 Changed Acceptance Criteria to match with current sprint 
- #2 Included test case IDs matching with Story IDs 
- #3 Fixed stories point in burndown chart 
- #4 Added Average velocity chart 
- #5 Added committed and completed ratio 
- #6 Specified next steps in Retrospective 
- #7 Used consistent story IDs throughout presentation 



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Quiz

08



**Product Backlog and
Sprint 7 Backlog**

Product Backlog

Issue Type	Key	Name
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.

Product Backlog

Issue Type	Key	Name
Story	LNG-124	As an application user, I want a user-friendly and intuitive interface that makes navigation and learning straightforward and enjoyable.
Story	LNG-128	As an application user, I want to go to home page after login successful.
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.

Sprint 7 Backlog

Issue type	Key	Name	Story Point Estimate
Story	LNG-113	As an app user, I want to log out	1
Story	LNG-114	As an app user, I would like to have a smooth transition between pages when I click to a button.	1
Story	LNG-115	As an app user, I would like to have better UI design for the app.	3
Task	LNG -70	Update Technical Paper	5

Stories Completed and Stories Not Completed

Key	Name	Status	Date
LNG-113	As an app user, I want to log out in setting page	Done	12/12/2023
LNG-114	As an app user, I would like to have a smooth transition between pages when I click to a button.	Done	12/12/2023
LNG-115	As an app user, I would like to have better UI design for the app.	Done	12/12/2023
LNG-70	Update Technical Paper	Done	12/12/2023

Stories and Acceptance Criteria

Stories	Summary	Status
LNG -113	<p>As a customer, I want to log out So that I can log in back Scenario customer face an issue with the app Given I'm in a role of logged in user When I click on log out button in setting page Then the app navigate to the sign in page And when I type correct username and password, I can login successfully.</p>	Done
LNG - 114	<p>As a customer, I want to switching page to page smoothly So that I can save time and enhance usability Scenario customer want to go from home page to profile page Given I'm in a role of logged in user When I'm in the Home page and want to go the profile page Then I click on profile icon in the bottom And it will navigate to the profile page</p>	Done

Stories and Acceptance Criteria

Stories	Summary	Status
LNG -115	<p>As a customer, I want to have better UI design for the app So that I can feel enjoyable when using the app Scenario customer want to quickly understand the app and want to use an app look modern, attractive and visually appealing. Given I'm in a role of a new user When I open the app and navigate to each screens Then the app appear with visual cues, animation, eye-catching theme.</p>	Done

Test Cases

User Story ID	Test Case ID	Test Scenario	Test Case	Pre-Condition	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/ Fail)				
LNG-97	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				
LNG-97	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>				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	
LNG-97	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>
LNG-97	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

STORY ID	TEST CASE ID	TEST SCENARIO	TEST CASE	PRE-CONDITION	TEST STEPS	TEST DATA	EXPECTED RESULT	ACTUAL RESULT	STATUS (PASS / FAIL)
LNG-97	TC_SIGN_UP_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
LNG-97	TC_SIGN_UP_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
LNG-97	TC_SIGN_UP_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

Story ID	Test Case ID	Test Scenario	Test Case	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/ Fail)
LNG-128	TC_HOME PAGE _3	Verify the HOME PAGE	A welcome message should show up on screen			Check if a welcome message appear on the home screen		PASS
LNG-128	TC_HOME PAGE_3	Verify the HOME PAGE	User should be able to open the home page			Homepage should appear when user click on it.		PASS

STORY ID	TEST CASE ID	TEST SCENARIO	TEST CASE	PRE-CONDITION	TEST STEPS	TEST DATA	EXPECTED RESULT	ACTUAL RESULT	STATUS (PASS/FAIL)
LNG-87	TC_FGPAS_S_6	Check on Forgot Password	Should direct to the email in order to change password.				Password resetted and send back to login page.		PASS

STORY ID	TEST CASE ID	TEST SCENARIO	TEST CASE	PRE-CONDITION	TEST STEPS	TEST DATA	EXPECTED RESULT	ACTUAL RESULT	STATUS (PAS/S/FAIL)
LNG-98	TC_PROFIL E_4	Check on Profile editable					Users can existing profile information successfully.		PASS
LNG-98	TC_PROFIL E_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	EXPECTED RESULT	ACTUAL RESULT	STATUS (PASS/FAIL)
LNG-101	TC_SPEAKING_5	Verify the speaking page	User should be able to record their voice	Record voice successfully		PASS
LNG -105	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
LNG-103	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
LNG-109	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



Radiant Team



Record



Home



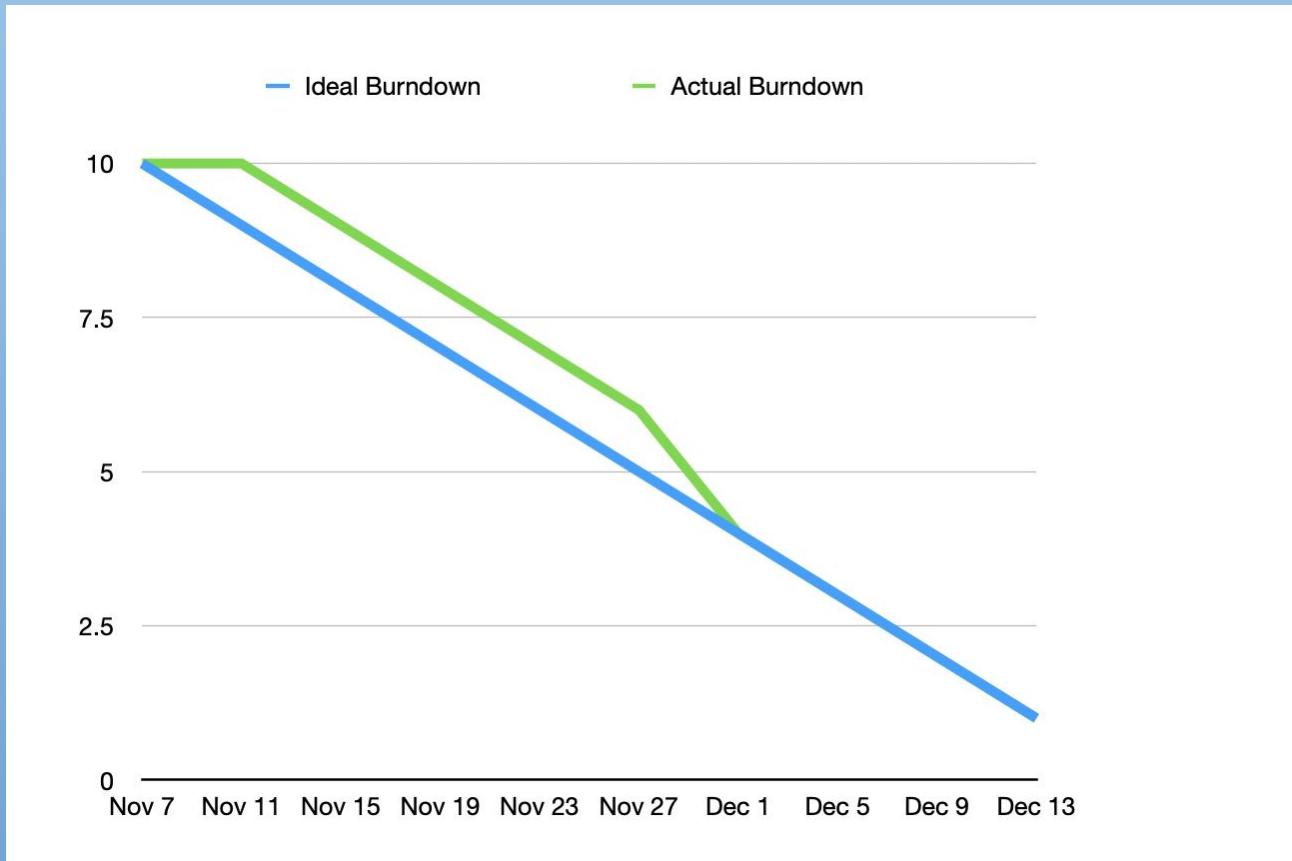
Quiz

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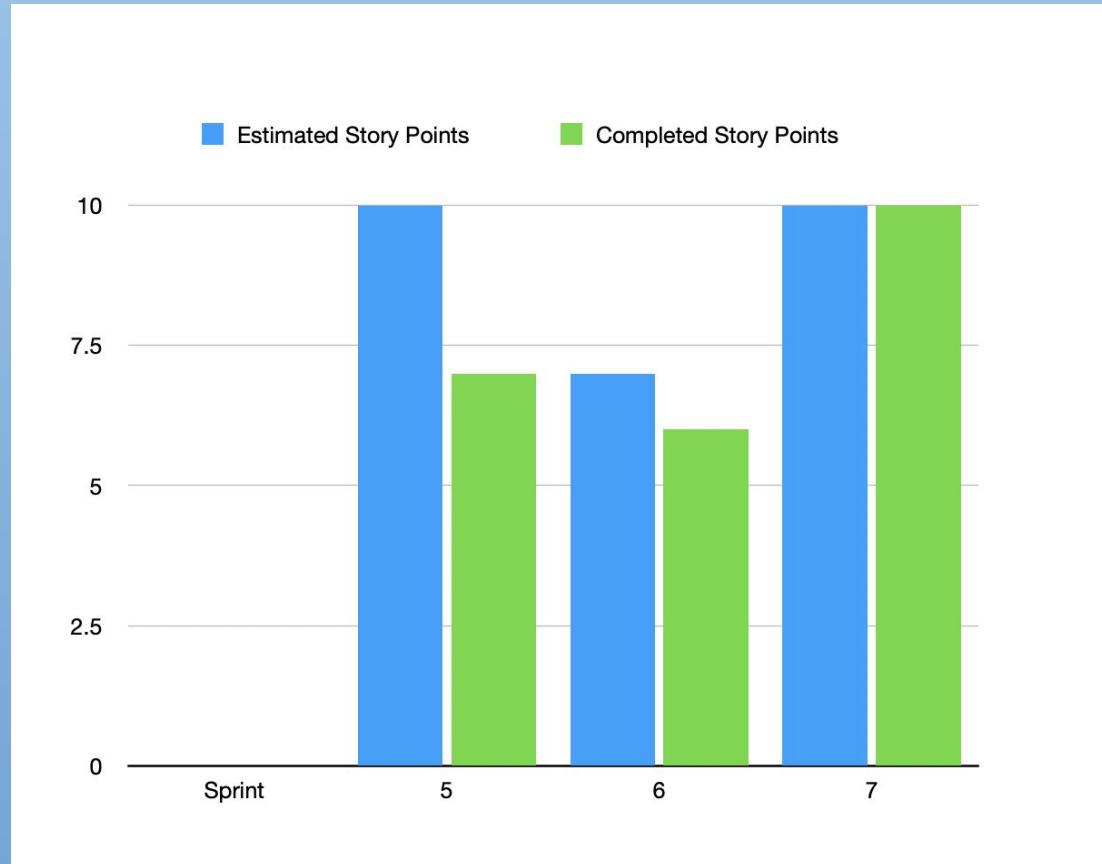


Metrics

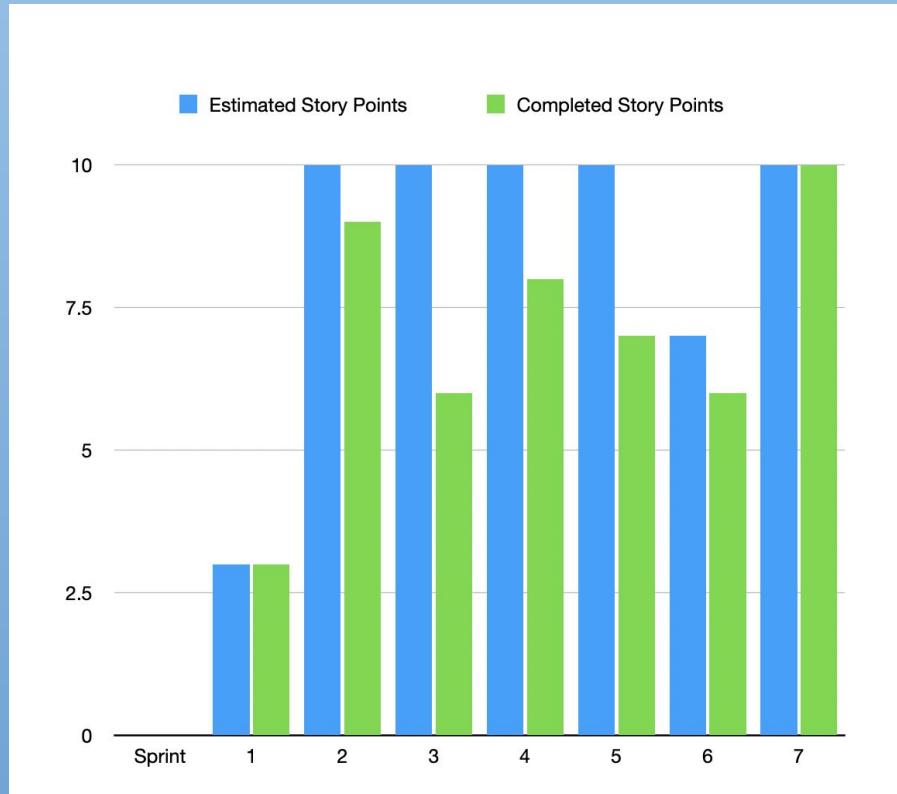
Sprint 07 Burndown chart



Team History Velocity Chart (CS692)



Team History Velocity Chart (CS 691+692)



Committed and Completed Ratio



Radiant Team



Record



Home



Quiz

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Retrospective



Retrospective



● What went well?

- The team produced quality code to that satisfy acceptance criteria.
- Team member work well together to deliver the project on time.
- The team well managed the most important features such as record voice and evaluate which part is pronounce correctly or incorrectly to work well.



Retrospective



● What hold us back?

- We face a lot of technical difficulties when implement new features such as bugs, integration issues.
- Infrequent code integration bring us integration challenges at the end of the sprint.



Retrospective



● Next Steps

- Prioritize fixing main issues which can cause delays. Using testing to minimize issues early.
- Maintain regular code integration to ensure effective process tracking.



API Overview



Record



Home



Quiz



We use a Rapid API for our mobile application. This API allows us to generate a pronunciation assessment after the user records their voice in English.

API key

```
X-RapidAPI-Key: '5623000057ms  
hd4b67eaccabf3f7p1b2ec9jsn33578c2e  
2c23'
```



API SAMPLE REQUEST

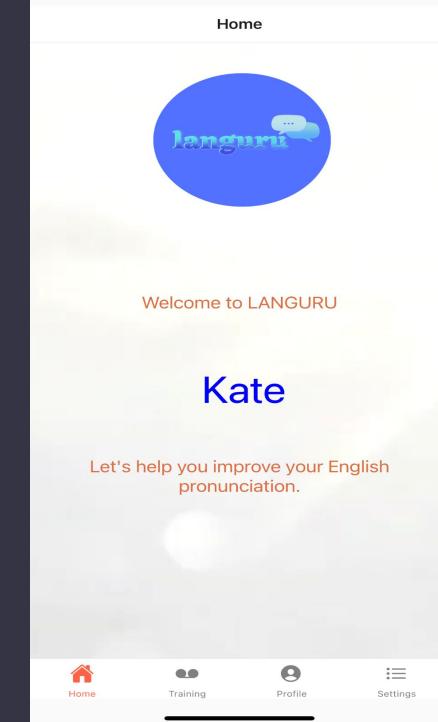
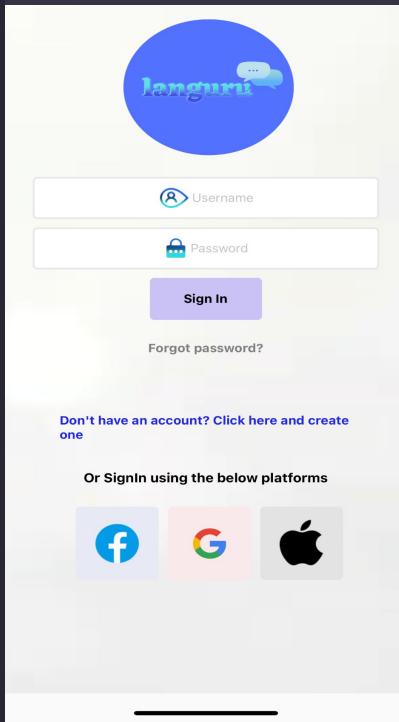
```
data: {  
  {  
    "audio_base64":  
      "Uk1GRmBLAgBXQVFZm10IBAAAAABAAEAgD4AAAB9AACABAAZGF0YTxLAgABAP7/AgD+/wIA//8BAP7/AgD  
      +/wIA//8AAAAEA/v8CAP7/AgD+/wMA/P8FAPr/BgD7/wQA/f8CAP7/AgD+/wEAAQD+/wEAAAAAAAAAQD9/wQ  
      A/f8CAP7/AgD+/wMA/f8CAP//AAABAP//AgD8/wUA/P8DAP7/AQD+/wIA/v8BAP//AAD//wIA//8CAAAAAQA  
      CAAAAAwD//wMA/v8DAPz/AgD9//7///8///v/9///+/wMA/v8NABYAEQASAA8ACgAJAAoACwAJAA4  
      ABwAMAAcABQAAIAAIACAACAAUAAgAAAP7/BwAcABIAEgAMAAcAAwACAAUAAwAGAAAYAAwAGAAEAAgADAAAAAwA  
      BAP7/AAD4//7/9f/8//x/9f/1//D/8//u//H/7v/t/+7/7f/u//D/7f/x/+z/8f/s//L/7P/w/+3/8f/u//P  
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    "text": "apples"  
  }  
}
```



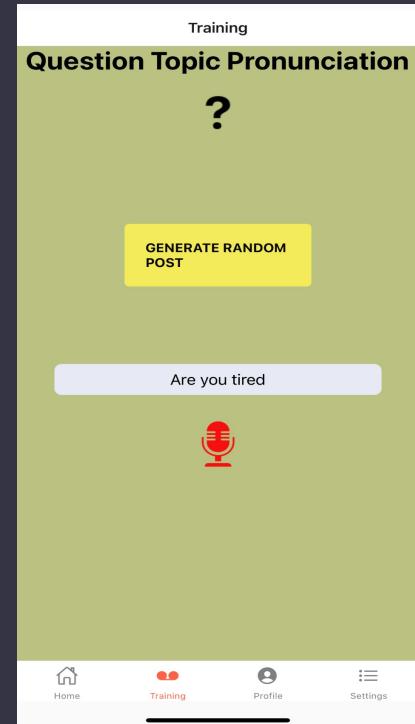
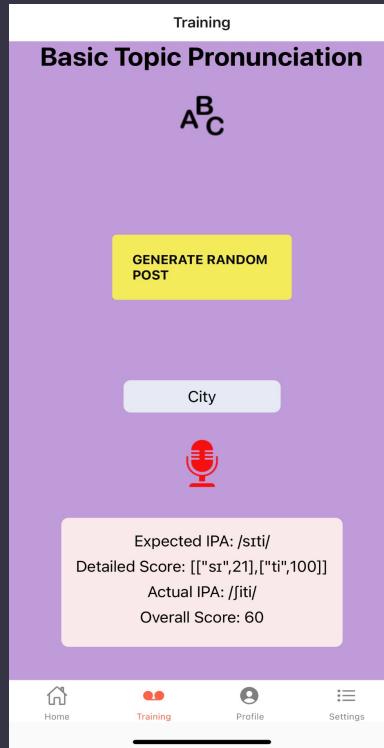
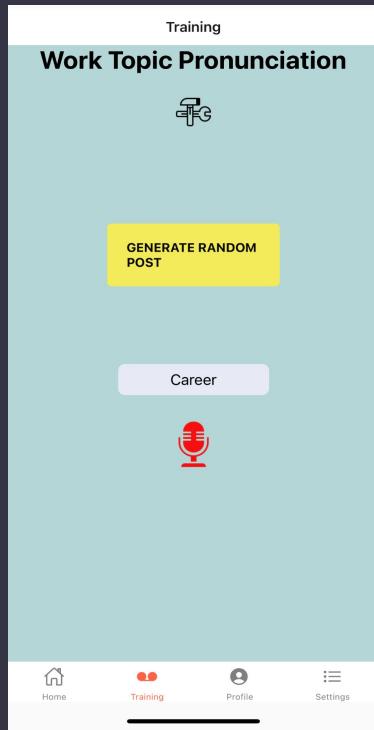
API SAMPLE RESPONSE

```
{  
    "status": "success",  
    "text_score": {  
        "text": "apple",  
        "word_score_list": [  
            {  
                "word": "apple",  
                "quality_score": 100,  
                "phone_score_list": [  
                    {  
                        "phone": "ae",  
                        "stress_level": 1,  
                        "extent": [  
                            12,  
                            27  
                        ],  
                        "quality_score": 100,  
                        "stress_score": 100,  
                        "predicted_stress_level": 2,  
                        "word_extent": [  
                            0,  
                            1  
                        ],  
                        "sound_most_like": "ae"  
                    },  
                    {  
                        "word": "apple",  
                        "quality_score": 100,  
                        "phone_score_list": [  
                            {  
                                "phone": "ɛ",  
                                "stress_level": 1,  
                                "extent": [  
                                    12,  
                                    27  
                                ],  
                                "quality_score": 100,  
                                "stress_score": 100,  
                                "predicted_stress_level": 2,  
                                "word_extent": [  
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                                    1  
                                ],  
                                "sound_most_like": "ɛ"  
                            }  
                        ]  
                    }  
                ]  
            }  
        ]  
    }  
}
```

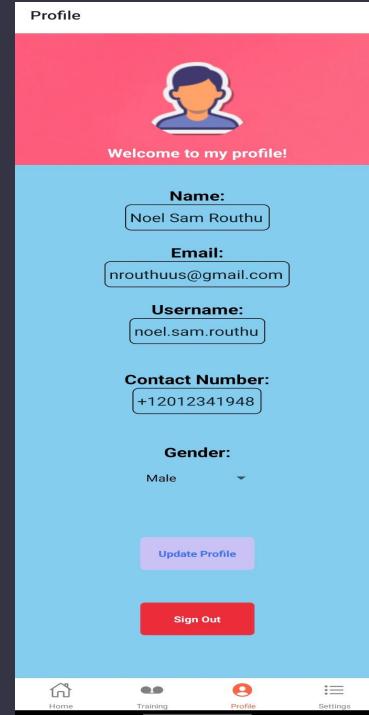
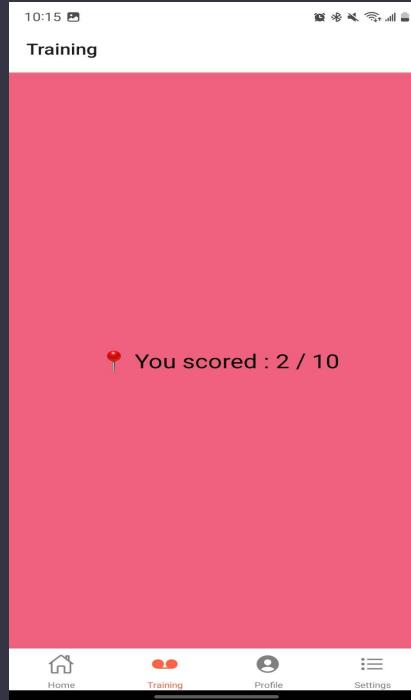
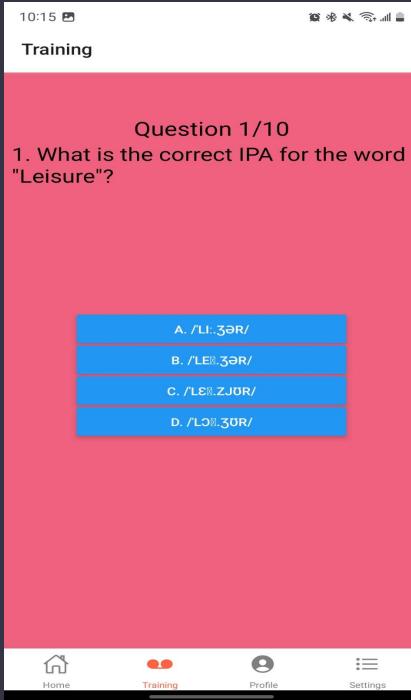
App Screenshots



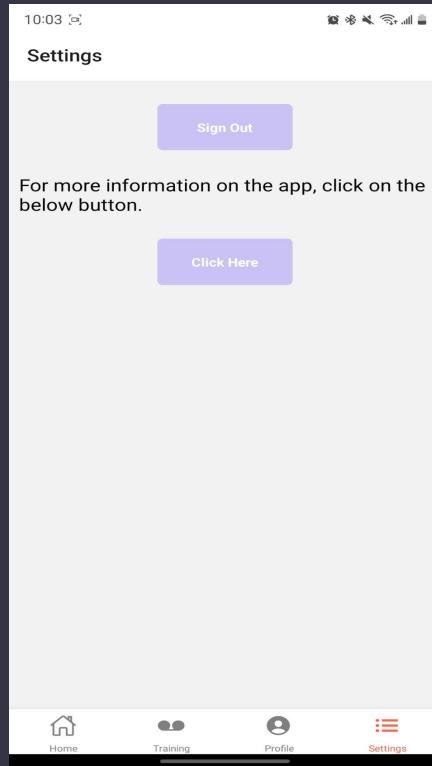
App Screenshots



App Screenshots



App Screenshots





Radiant Team



Record



Home



Quiz

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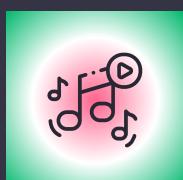
Future Scope



Future Scope







Languru app have a lot of room for improvements in the future such as:

- ❖ To reach a wider audience, the app might support multiple languages.
- ❖ Integrate online learning so that app's users can compete or collaborate on each exercises. They can support each other to create a sense of community between users.
- ❖ The application can have accessible support for users who are hearing or visually impaired.
- ❖ Games or Lessons can be implemented to make the learning process more engaging and keep users motivated.



Radiant Team



Record



Home

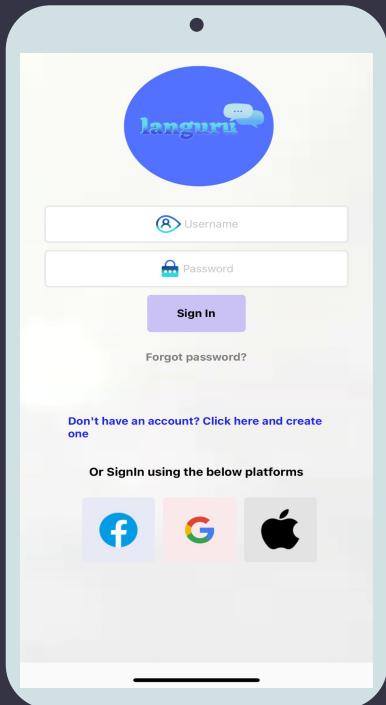


Quiz

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LIVE APPLICATION DEMO



Click [here](#) to watch
our App Demo!



Links





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Thank you!

