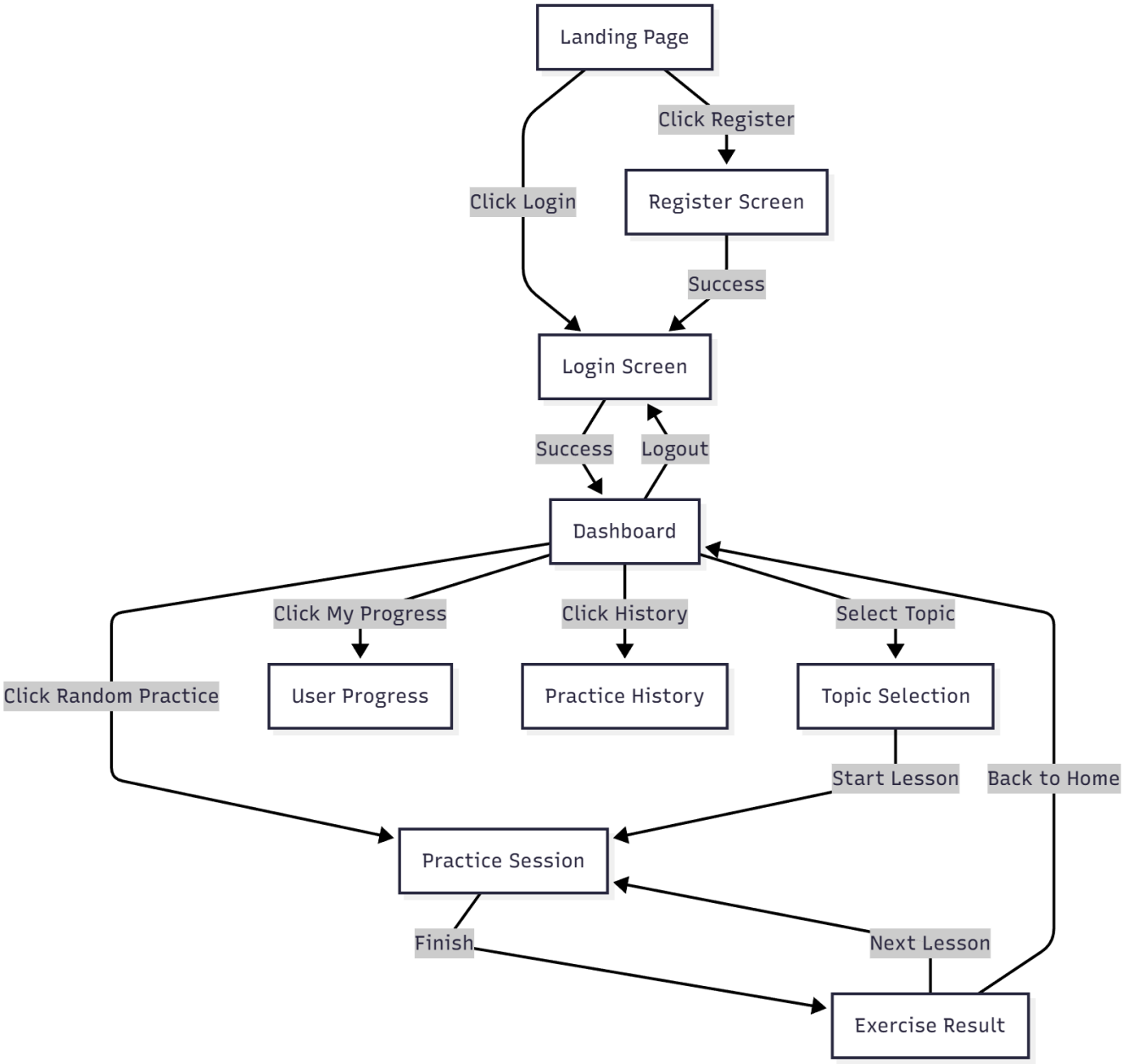
Introduction to Software Engineering

UI design

Software Engineering Department
Faculty of Information and Technology
University of Science

1.1 Screen Diagram



Seq	Screen	Description
1	Landing Page	Introduces the system, highlighting key features and guiding users to Login/Register.
2	Login Screen	Allows users to authenticate and access the system.
3	Register Screen	Allows new users to create an account
4	Forgot Password Screen	Allows users to recovery account if they forgot password
5	Dashboard	The main hub after login, displaying progress overview, statistics, and topic suggestions.
6	Topic Selection	List of available topics allowing users to choose a specific area to practice.
7	Practice Session	The core screen where users perform speaking exercises and record their voice.
8	Exercise Result	Displays detailed results after completing an exercise (score, feedback).
9	User Progress	Detailed view of user skills, learning history, and improvement charts.

1.2 Screen Specifications

1.2.1 Landing Page

The first screen users see when accessing the application, designed to attract and convert visitors into registered users.

Presentation Format:

- Header (Sticky): "English Learning" Logo (left), Navigation Menu (Features, Testimonials), Login/Register buttons (right).
- Hero Section: Large Headline emphasizing core value, High-quality illustration or vector art about learning, prominent "Get Started" button.
- Feature Grid: List of key features (Voice Recognition, AI Feedback, Progress Tracking) with illustrative icons.
- Footer: Contact information, social media links, and copyright.

Event Handling:

- Click "Get Started" / "Register": Redirects to the Register Screen.
- Click "Login": Redirects to the Login Screen.
- Scroll: Header remains fixed when scrolling to facilitate navigation.

Speak English
Like a Native
Your personal AI English coach. Get instant feedback on your pronunciation, intonation, and fluency. Practice anytime, anywhere.
Get Started Free
Already have an account? Let's start learning!
4.8/5 Rating • 10M+ Downloads
WHY CHOOSE US
The World's Best English Pronunciation Coach
Powered by advanced Artificial Intelligence to help you speak confidently.
AI Voice Recognition
Our proprietary AI technology analyzes your speech with 95% accuracy, detecting even the smallest pronunciation errors.
Instant Feedback
Get real-time feedback on your pronunciation, intonation, and stress. Correct your mistakes instantly.
Personalized Learning
Tailored lesson plans based on your proficiency level and learning goals. Improve faster with a customized path.
200+ Topics
Practice English for travel, business, daily life, and more. Learn vocabulary that is relevant to you.
Loved by English Learners Worldwide
Join thousands of users who have transformed their English speaking skills.
Sarah Jenkins
Marketing Director
"I've tried many apps, but this one is the best. My pronunciation has improved significantly in just 3 weeks!"
Michael Chen
Software Engineer
"The AI feedback is incredible. It's like having a personal tutor available 24/7. Highly recommended!"
Elena Rodriguez
Student
"I used to be afraid of speaking English. Now I feel confident and can hold conversations easily."
Ready to Master English Speaking?
Start your journey today with our AI-powered coach. Join for free and see the difference.
Get Started Now
No credit card required for free trial.
ELS System
The #1 AI-powered English speaking coach. Improve your pronunciation and fluency with instant feedback.
Product
Features
Pricing
For Business
For Schools
Resources
Blog
Community
Help Center
Contact Us
Legal
Privacy Policy
Terms of Service
Cookie Policy
© 2025 ELS System. All rights reserved.

1.2.2 Login Screen

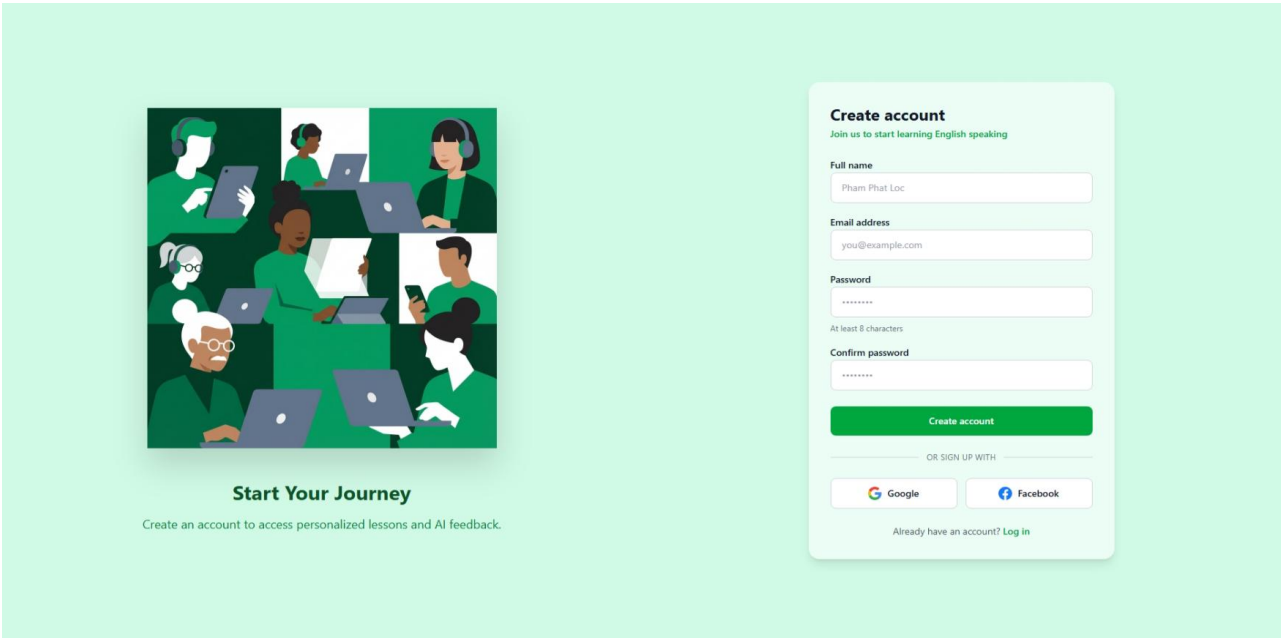
Allows existing users to access the system.

Presentation Format:

- Layout: Split into 2 columns
  - Left Side: Learning illustration image background and welcome message.
  - Right Side: Login form on a white/lighter green background.
- Form Elements: Email input, Password input, "Remember me" checkbox, "Forgot Password" link.
- Social Login: Quick login buttons via Google, Facebook.

Event Handling:

- Click "Sign in":
- Validates input (Empty email, short password).
- Sends login request to the server.
- If successful: Redirects to Dashboard.
- If failed: Displays red error message below the input field.
- Click "Forgot password?": Redirects to the password recovery screen.
- Click "Sign up": Redirects to the Register Screen.



1.2.3 Dashboard Screen:

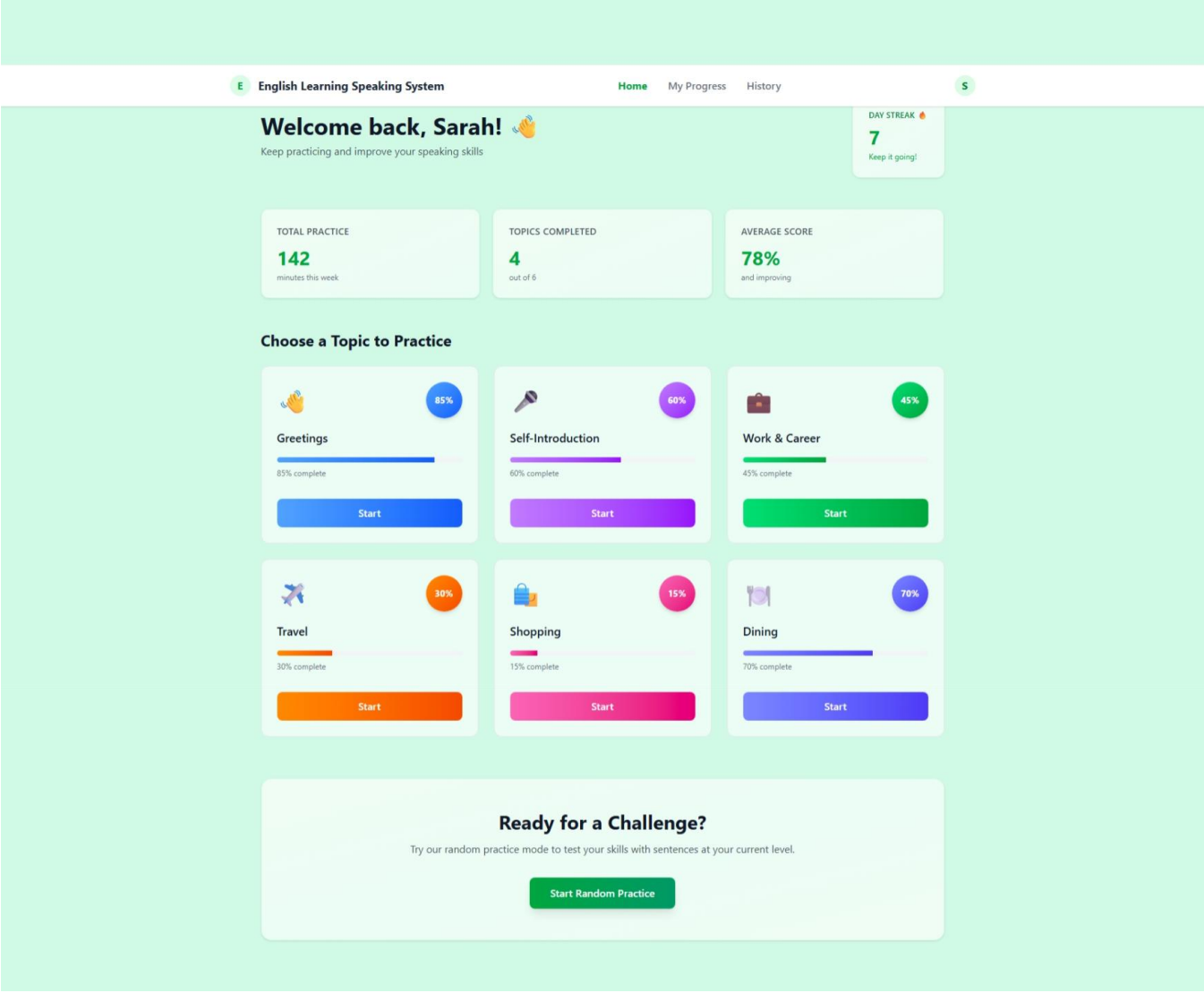
The user's central control hub, where all learning activities begin.

Presentation Format:

- Welcome Section: Personalized greeting "Welcome back, [Name]" with an emoji.
- Day Streak Badge: Displays the number of consecutive learning days with a flame icon to motivate users.
- Stats Cards: 3 quick statistic cards (Total Practice, Topics Completed, Average Score) with a dominant green color theme.
- Topics Grid: Grid list of Topic Cards, each with an Emoji, Topic Name, and Progress Bar.
- Random Practice CTA: A prominent block encouraging users to take a random practice test.

Event Handling:

- Scroll: Header remains fixed.
- Click Topic Card: Navigates to Topic details or starts the first lesson of that Topic (Practice Session).
- Click "Start Random Practice": Immediately navigates to Practice Session with random content.
- Click Navigation (Progress): Directs to the User Progress screen.


English Learning Speaking System
Home
My Progress
History
S
Welcome back, Sarah!
Keep practicing and improve your speaking skills
DAY STREAK
7
Keep it going!
TOTAL PRACTICE
142
minutes this week
TOPICS COMPLETED
4
out of 6
AVERAGE SCORE
78%
and improving
Choose a Topic to Practice
85%
Greetings
85% complete
Start
60%
Self-Introduction
60% complete
Start
45%
Work & Career
45% complete
Start
30%
Travel
30% complete
Start
15%
Shopping
15% complete
Start
70%
Dining
70% complete
Start
Ready for a Challenge?
Try our random practice mode to test your skills with sentences at your current level.
Start Random Practice

1.2.4 Practice Screen

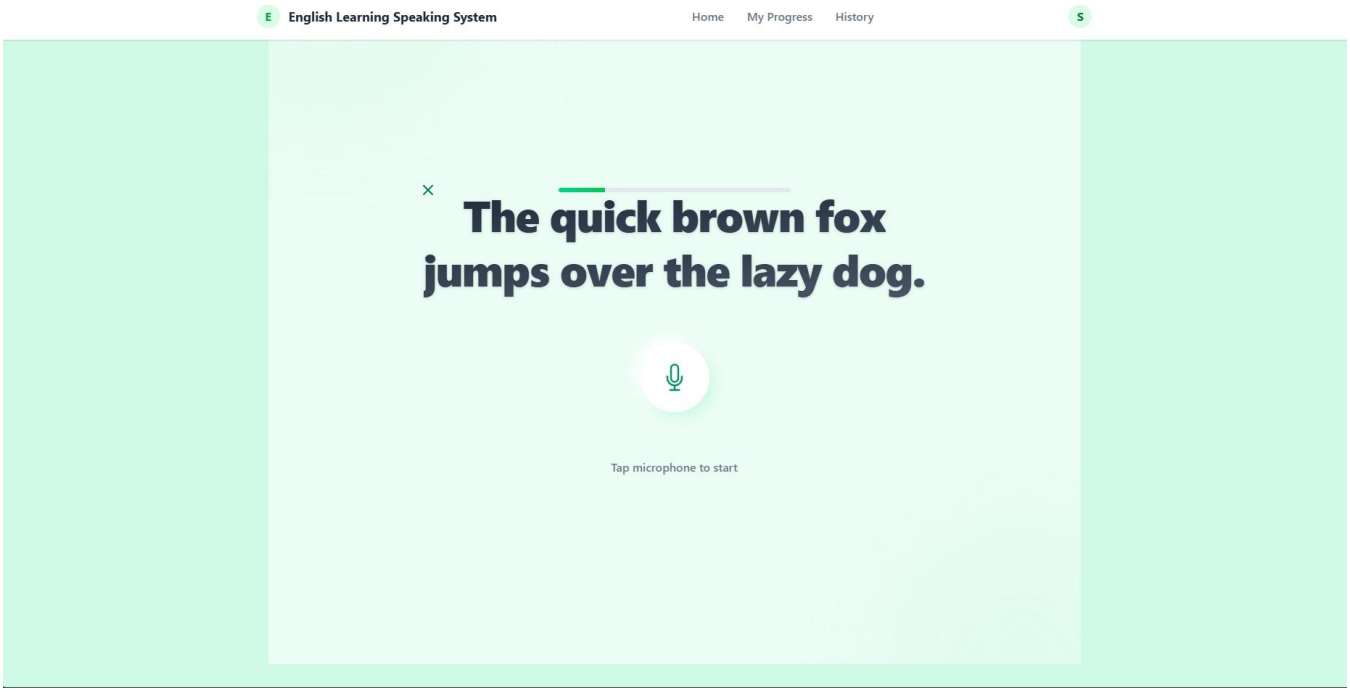
The core screen where users interact with AI to practice pronunciation.

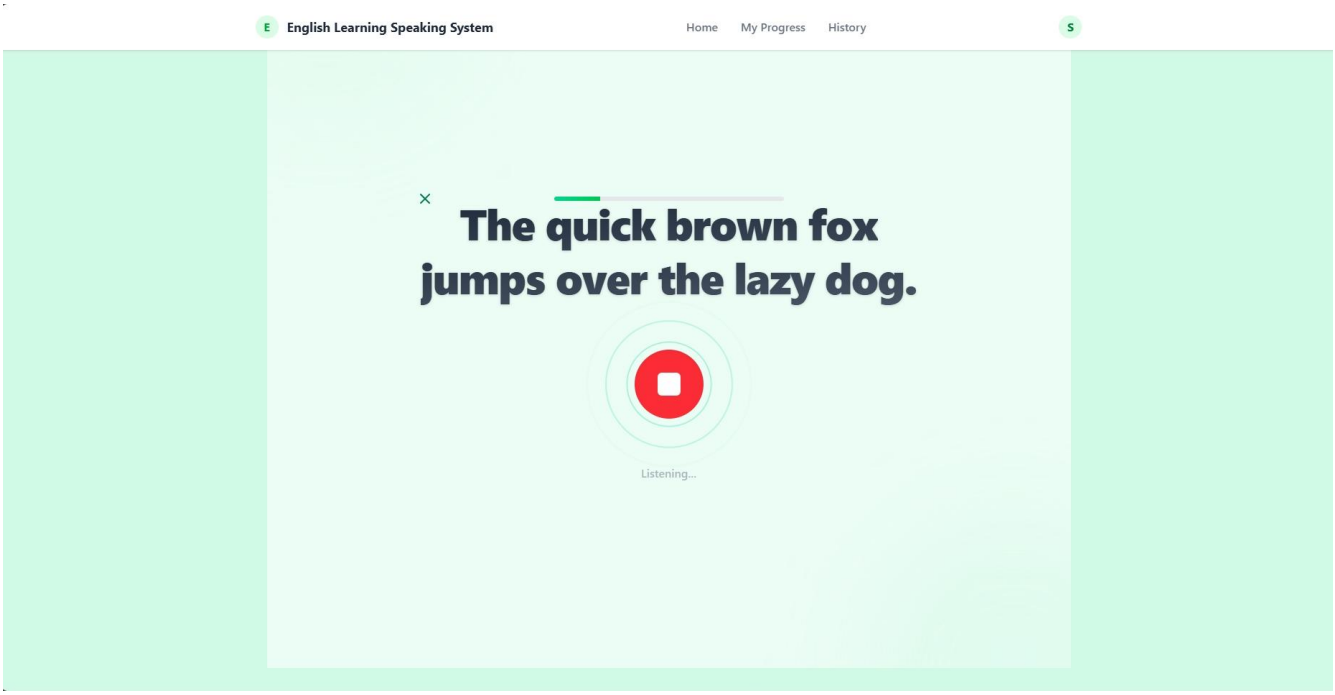
Presentation Format:

- Minimalist Interface: Distractions removed to focus entirely on the lesson content.
- Instruction Text: Status instruction text (Listening, Analyzing...).
- Hero Text: Sample sentence to be read displayed in large font at the center.
- Record Button: Large circular button at the bottom with a "Pulse" animation when recording.
- Progress Indicator: Bar showing current lesson progress (e.g., Sentence 2/5).

Event Handling:

- Click "Record": Activates Microphone, UI state changes to "Recording", visual sound wave effect appears.
- Click "Stop": Stops recording, sends audio file for processing. Displays Loading spinner.
- Completion: Upon finishing a sentence, automatically displays the Feedback Sheet.




E
English Learning Speaking System
Home
My Progress
History
S
The quick brown fox jumps over the lazy dog.
Listening...

1.2.5 Progress Report Screen

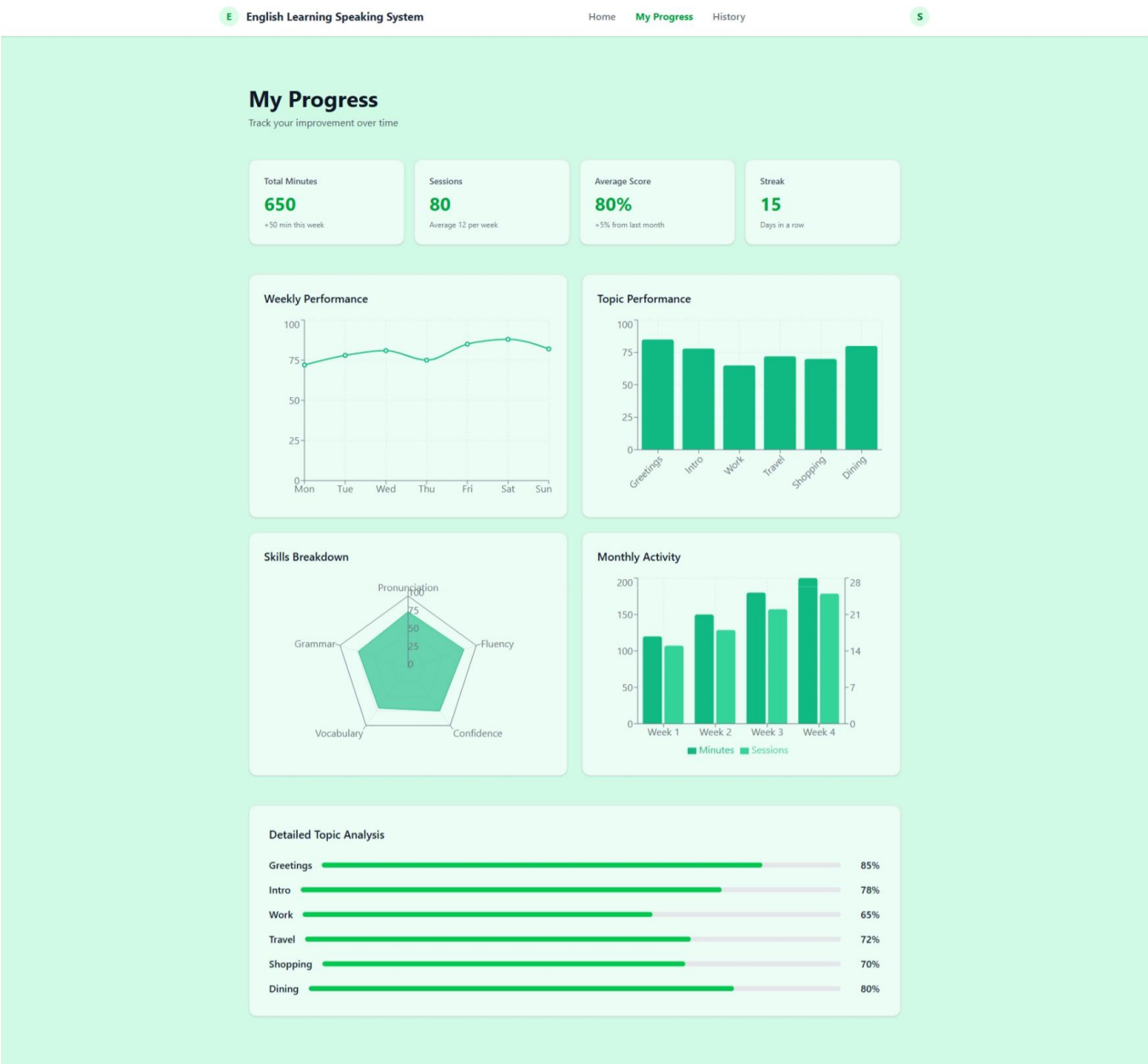
Helps users track their improvement via visual charts.

Presentation Format:

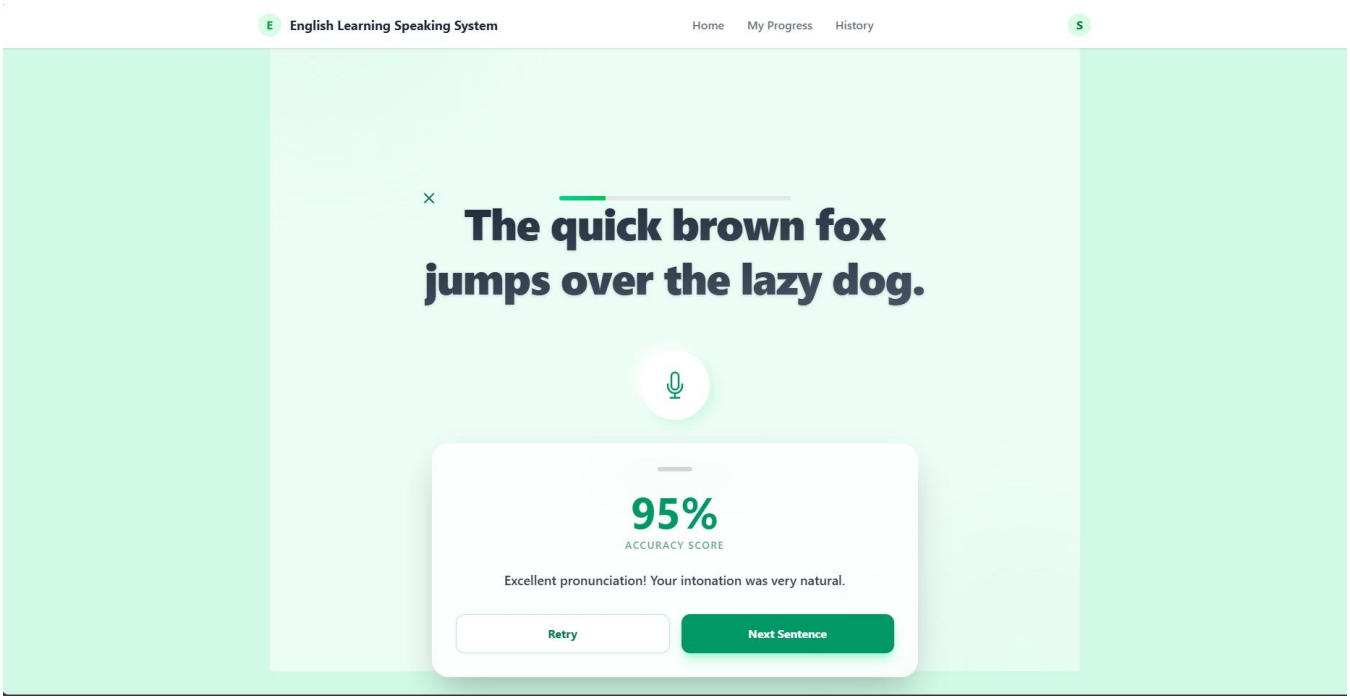
- Charts:
  - Weekly Performance (Line Chart): Score trends over the week.
  - Skills Radar (Radar Chart): Multi-dimensional assessment (Pronunciation, Fluency, Vocabulary...).
  - Topic Performance (Bar Chart): Score comparison across topics.
  - Detailed List: Detailed list of topics and corresponding scores.

Event Handling:

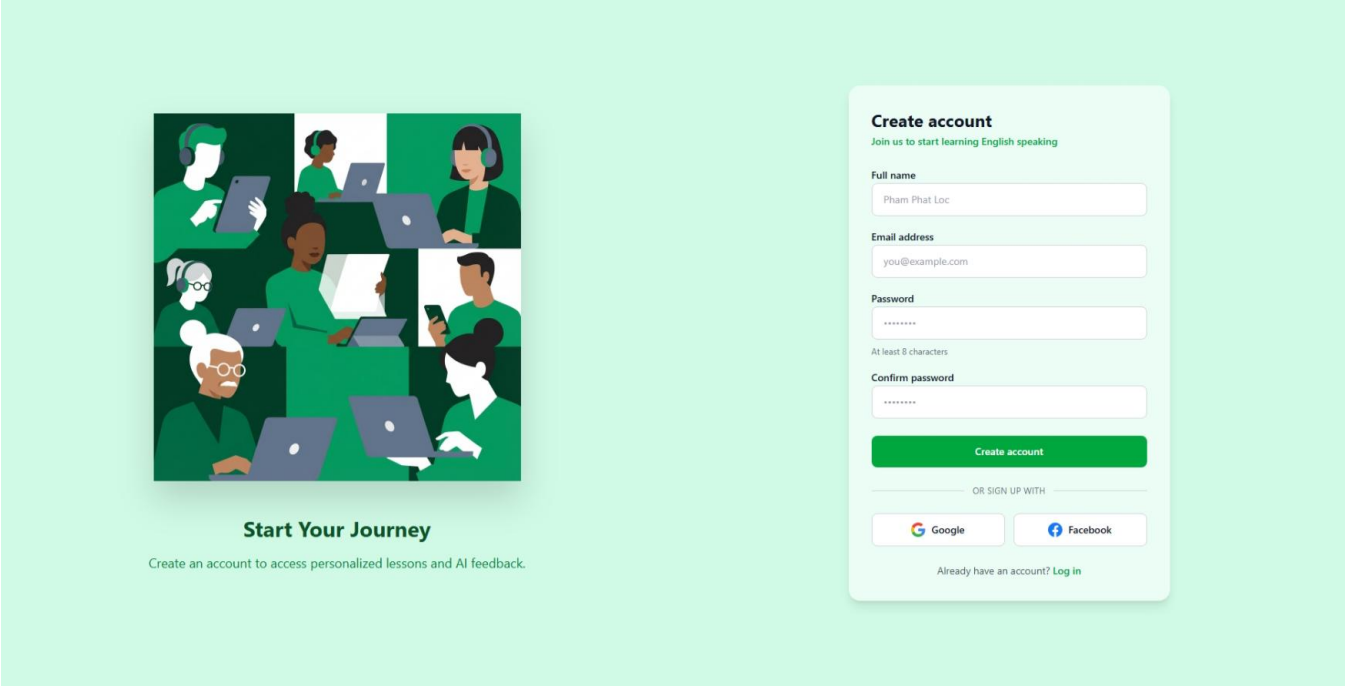
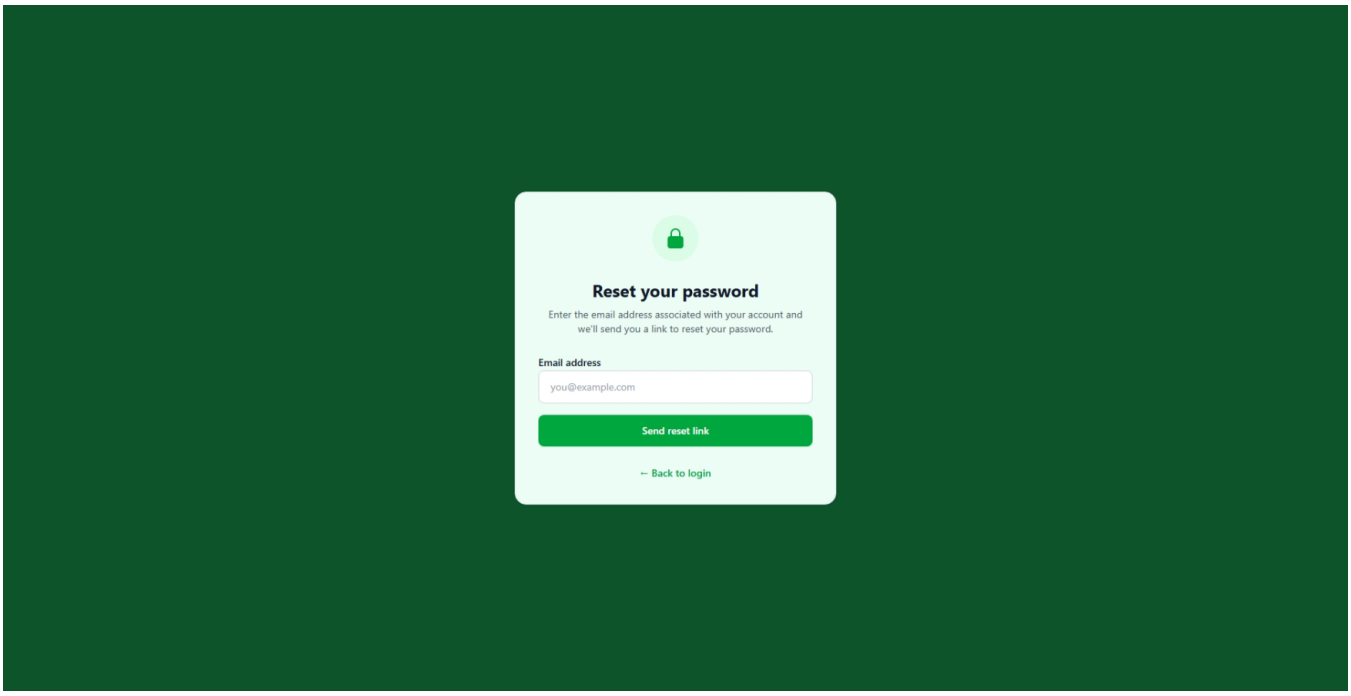
- Hover Chart: Displays Tooltip with exact figures at data points.


E
English Learning Speaking System
Home
My Progress
History
S
My Progress
Track your improvement over time
Total Minutes
650
+50 min this week
Sessions
80
Average 12 per week
Average Score
80%
+5% from last month
Streak
15
Days in a row
Weekly Performance
100
75
50
25
0
Mon
Tue
Wed
Thu
Fri
Sat
Sun
Topic Performance
100
75
50
25
0
Greetings
Intro
Work
Travel
Shopping
Dining
Skills Breakdown
Pronunciation
Fluency
Confidence
Vocabulary
Grammar
100
75
50
25
0
Monthly Activity
200
150
100
50
0
28
21
14
7
0
Week 1
Week 2
Week 3
Week 4
Minutes
Sessions
Detailed Topic Analysis
Greetings
85%
Intro
78%
Work
65%
Travel
72%
Shopping
70%
Dining
80%

1.2.6 Exercise Screen:



1.2.7 Register Screen:



1.2.8 Forgot Password Screen: