

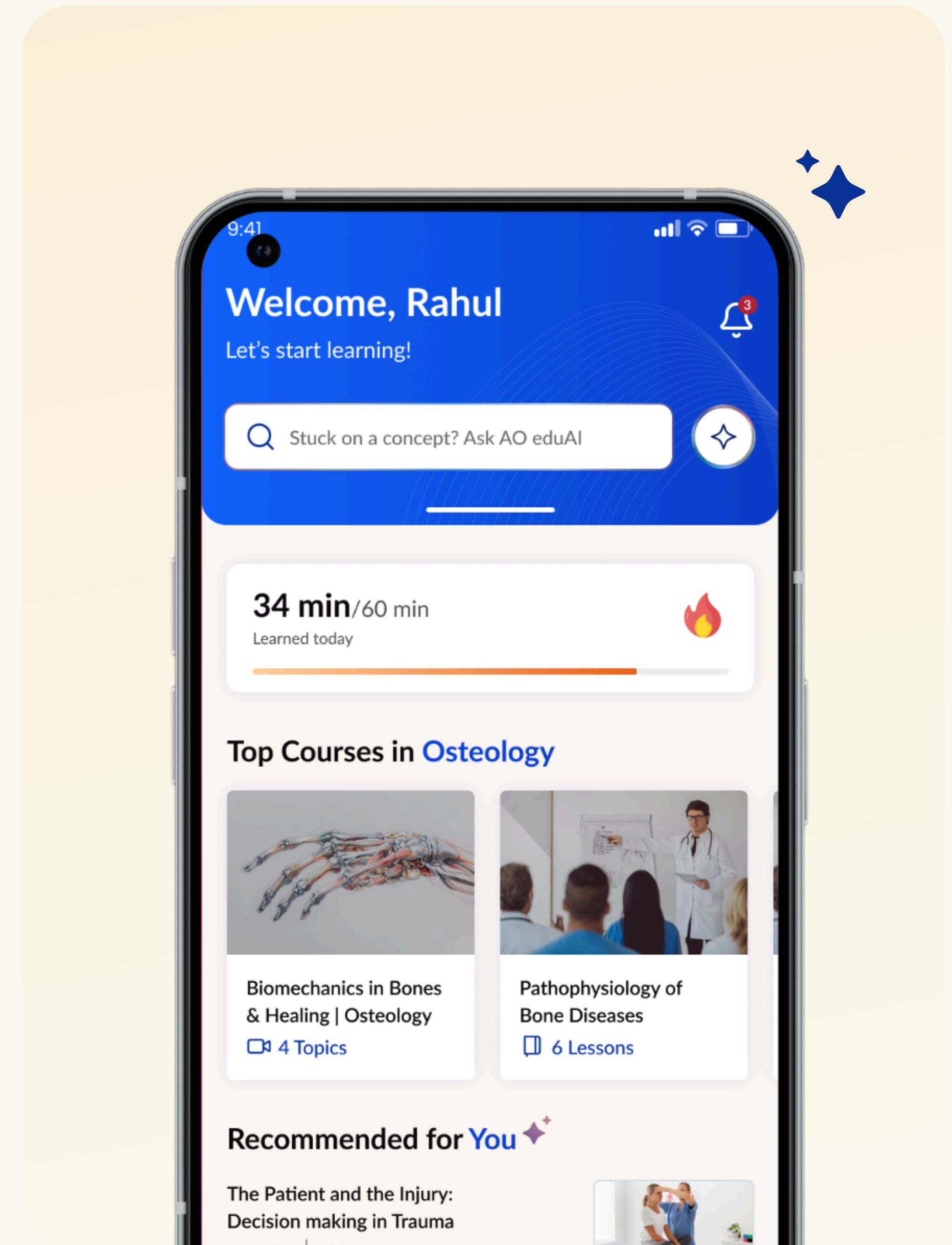


AO Companion

# Proposal for Application Redesign

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JANUARY 17, 2025



# Objective

AO Companion is an AI-powered orthopedic learning app that provides expert-reviewed content, interactive case studies, and AI-driven tutoring. Designed for medical professionals, it enhances learning in musculoskeletal trauma, fracture management, and surgical techniques. The redesign aims to modernize its interface while ensuring usability and credibility.

## Redesign Objectives:

- Modernize with a clean, professional design that highlights innovation.
- Align UI with AO Foundation's branding for consistency.
- Improve accessibility to meet WCAG 2.1 standards.
- Enhance visibility of core features like Learn, Review, Present, and AI tutor.
- Build a scalable design system for future updates.

# Areas for Improvement

While AO Companion serves as a valuable educational tool, several areas need improvement to enhance usability, engagement, and user experience. Addressing these issues will ensure a seamless and intuitive app experience for medical professionals.

- **Lengthy Registration Process:** The current registration form is too long, leading to user fatigue and drop-offs. Simplifying the process will improve onboarding.
- **Multiple OTP Verifications:** Excessive OTP steps create friction, slowing down access to the app. A streamlined authentication process is needed.
- **Unclear App Purpose:** Users struggle to understand the app's core value at first glance. Clearer messaging and onboarding guidance are essential.
- **Weak UX Writing:** The current copy lacks clarity and engagement, making it harder for users to navigate and interact with features effectively.
- **Ineffective Intro Screens:** The introduction fails to highlight key app benefits, missing an opportunity to engage users from the start.

# Screens Redesigned for AO Companion

As part of the UI overhaul, we have approached the redesign of each screen with a user-first mindset, focusing on clarity, efficiency, and engagement



## 3D Touch Quick Actions

Designed for instant access to key features, minimizing navigation time & improving efficiency

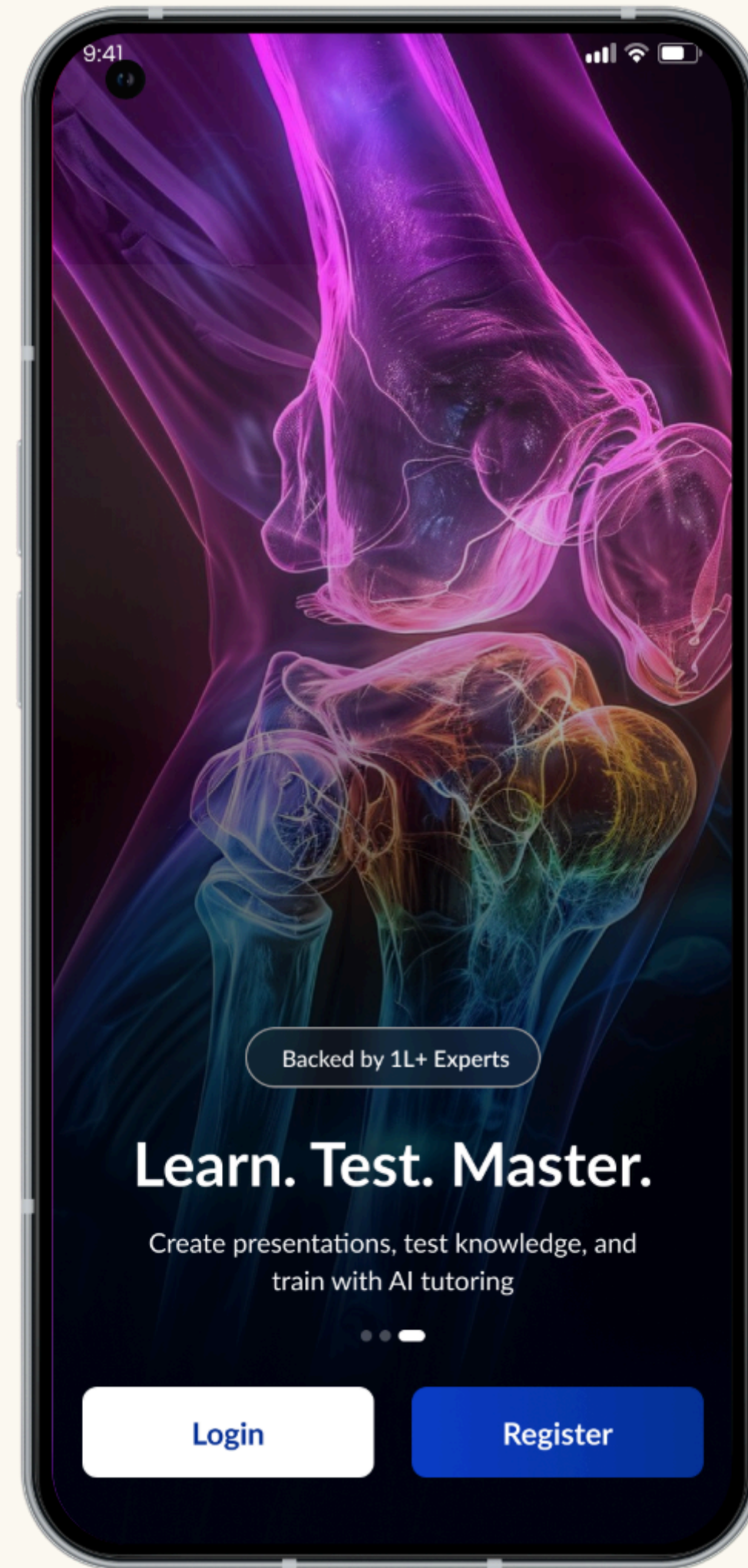
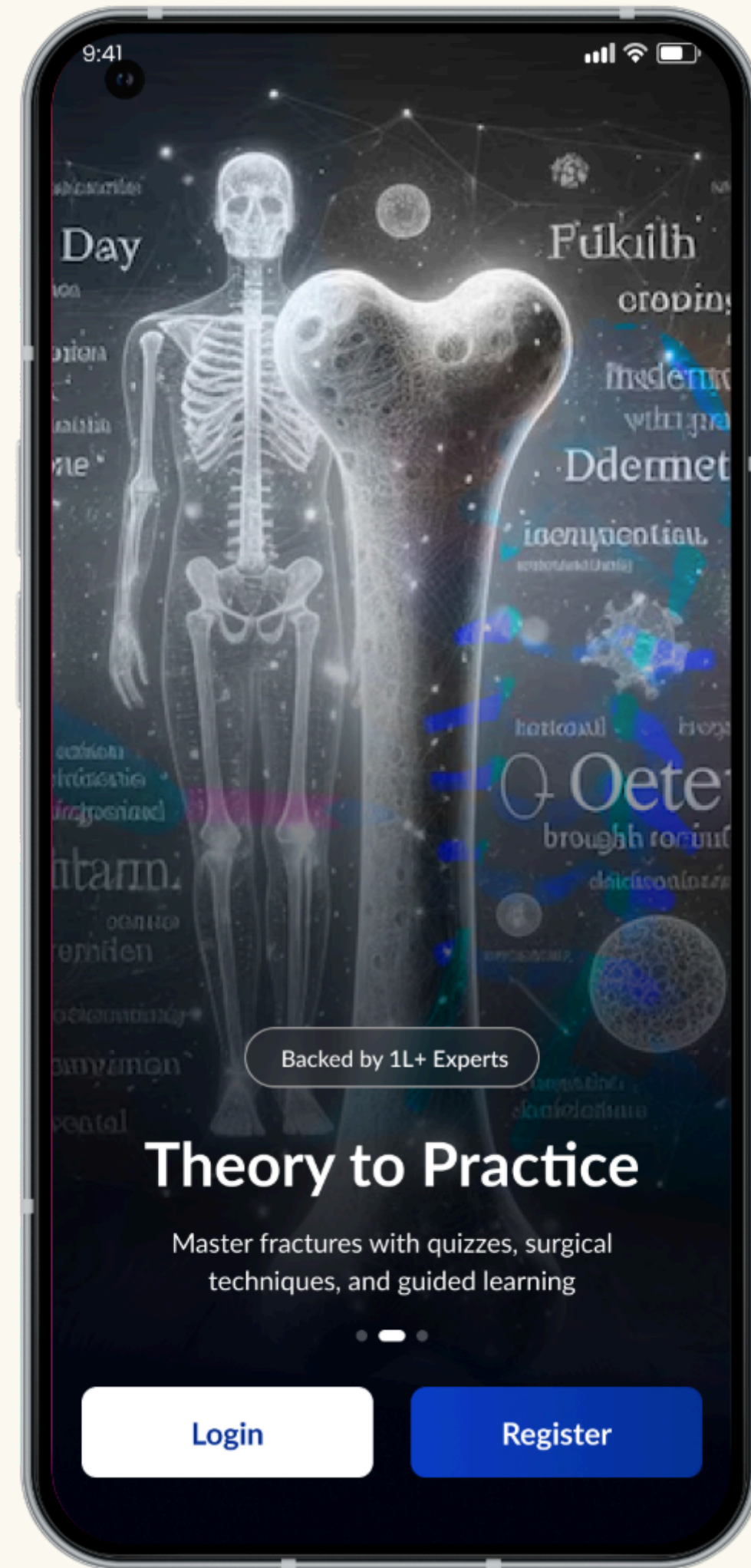


## Splash Screen

A refreshed, modern entry screen that reinforces branding and sets the tone for the user experience



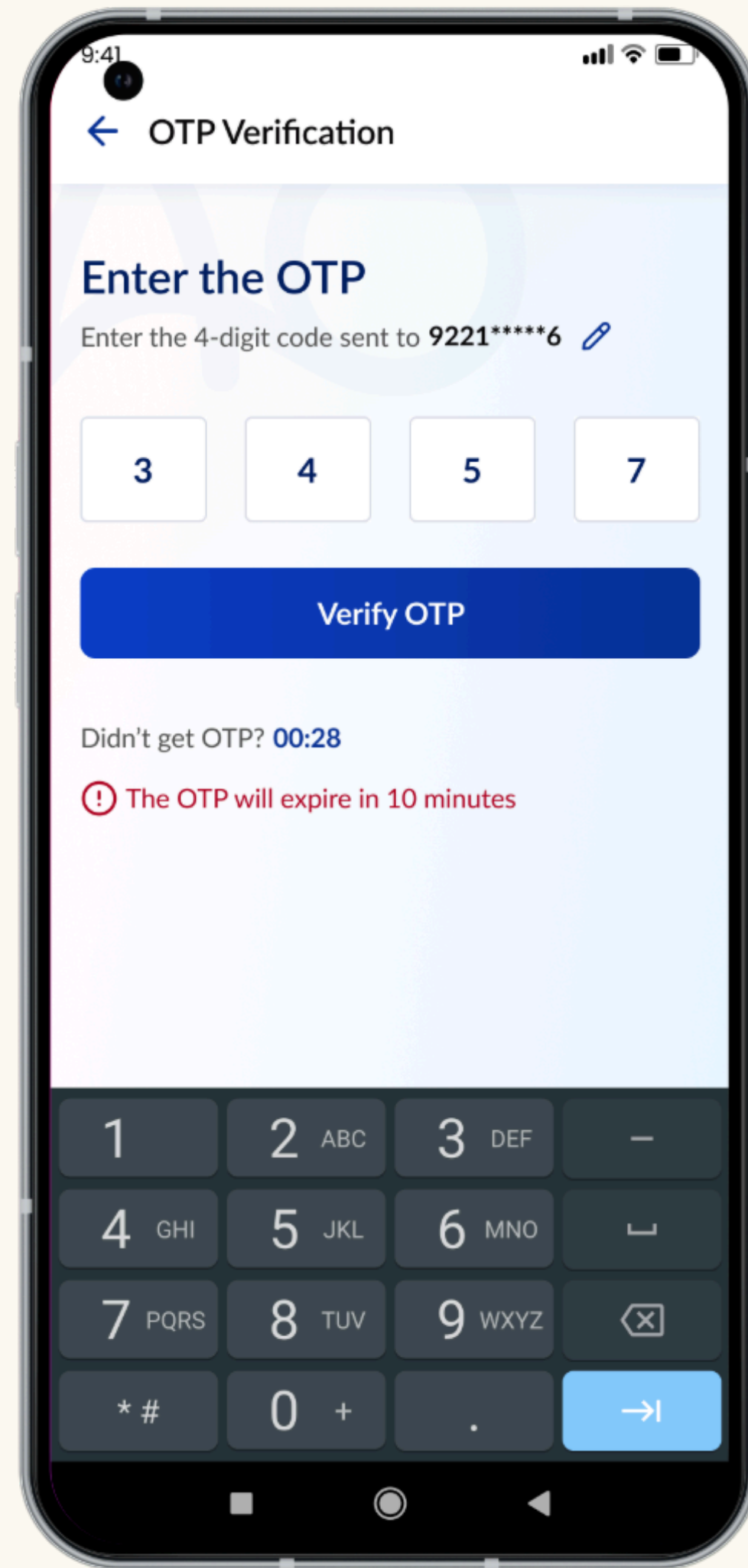
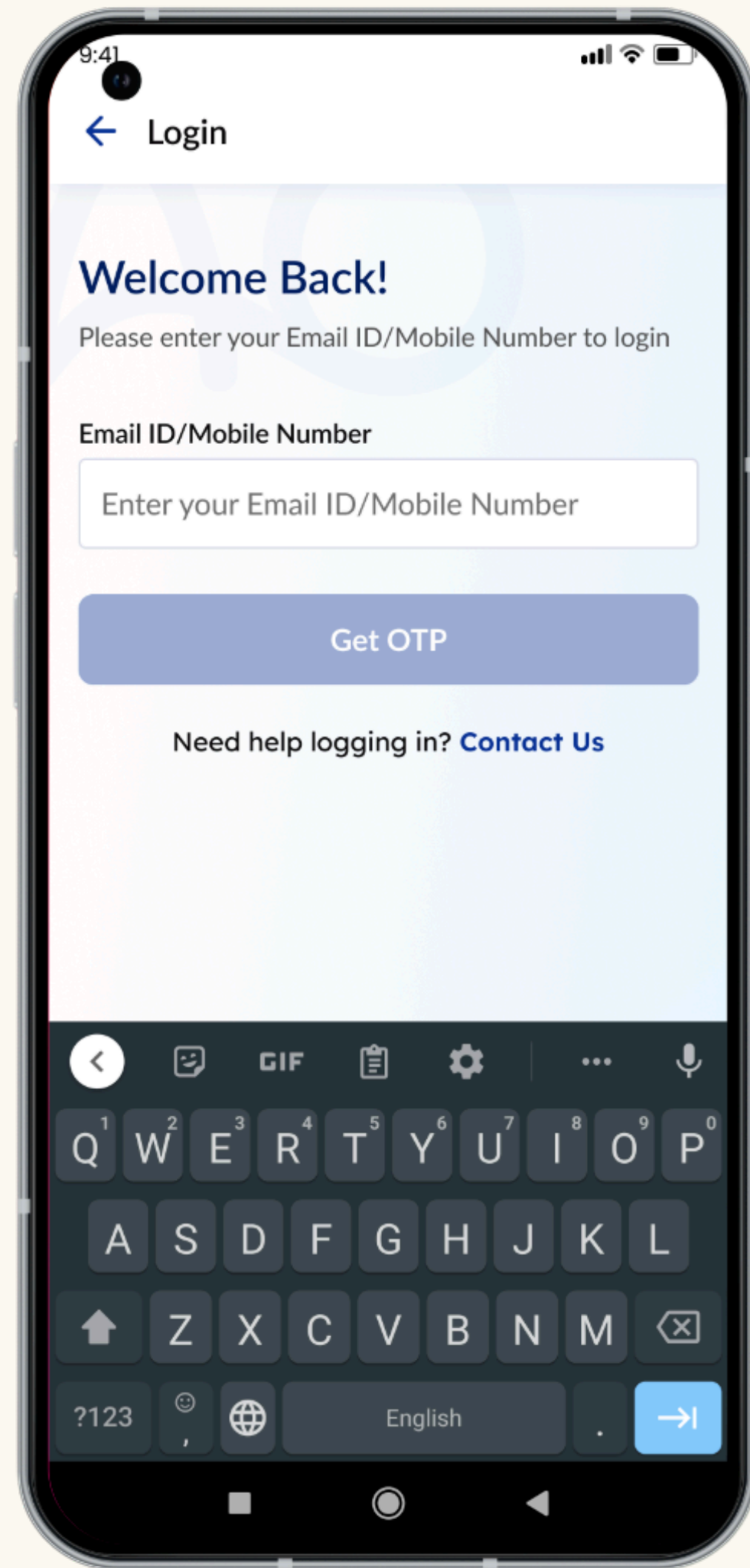




## Intro Screens

Restructured to clearly communicate the app's AI-powered learning, personalized study paths, and expert-reviewed content





# Login & OTP Verification

Streamlined for faster authentication, reducing friction while maintaining security and ease of access

9:41

← Create an Account

1/5

### Enter Basic Details

First Name

Rahul

Last Name

Enter your Last Name

Email ID

Enter your Email ID

Next

9:41

← Create an Account

4/5

### What is your area of interest?

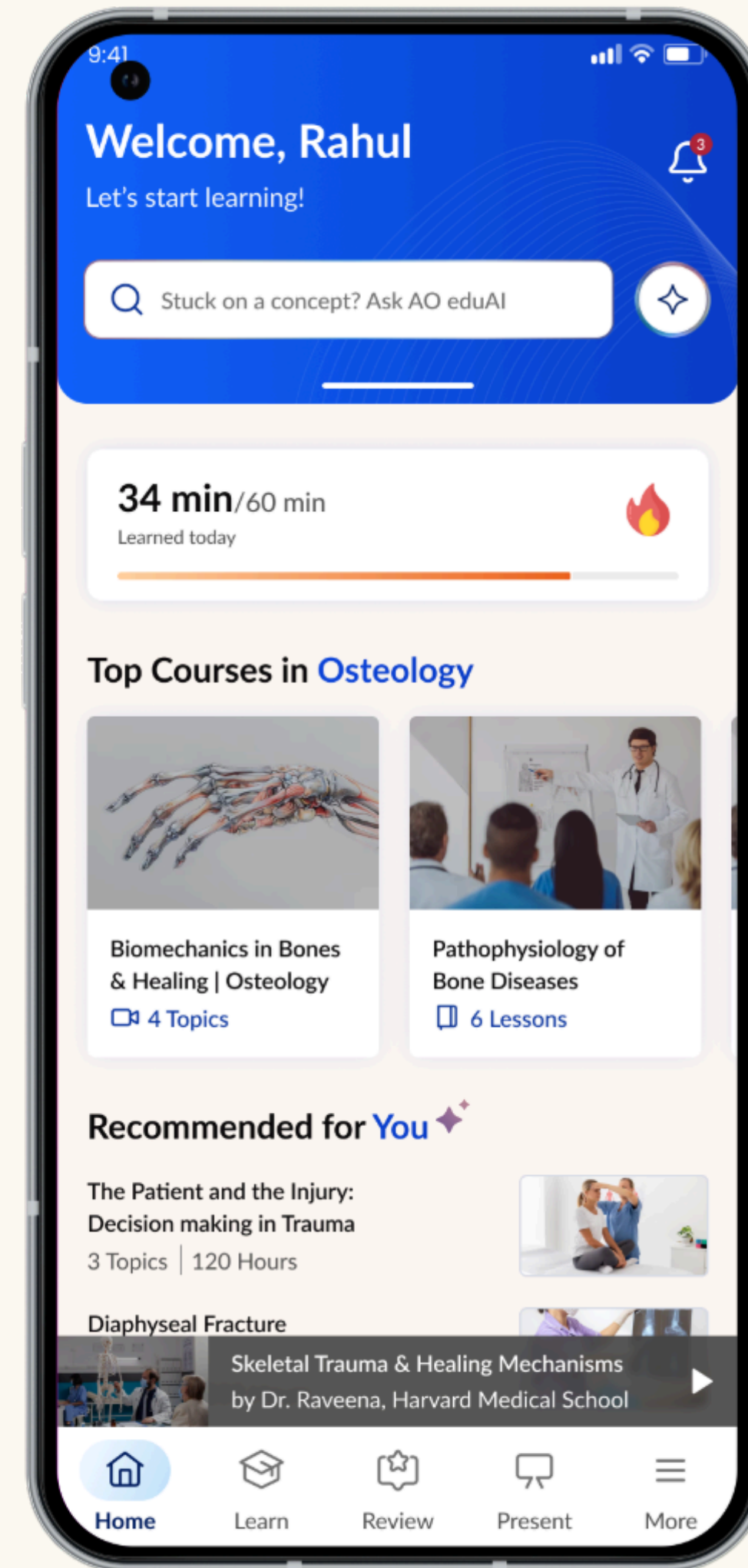
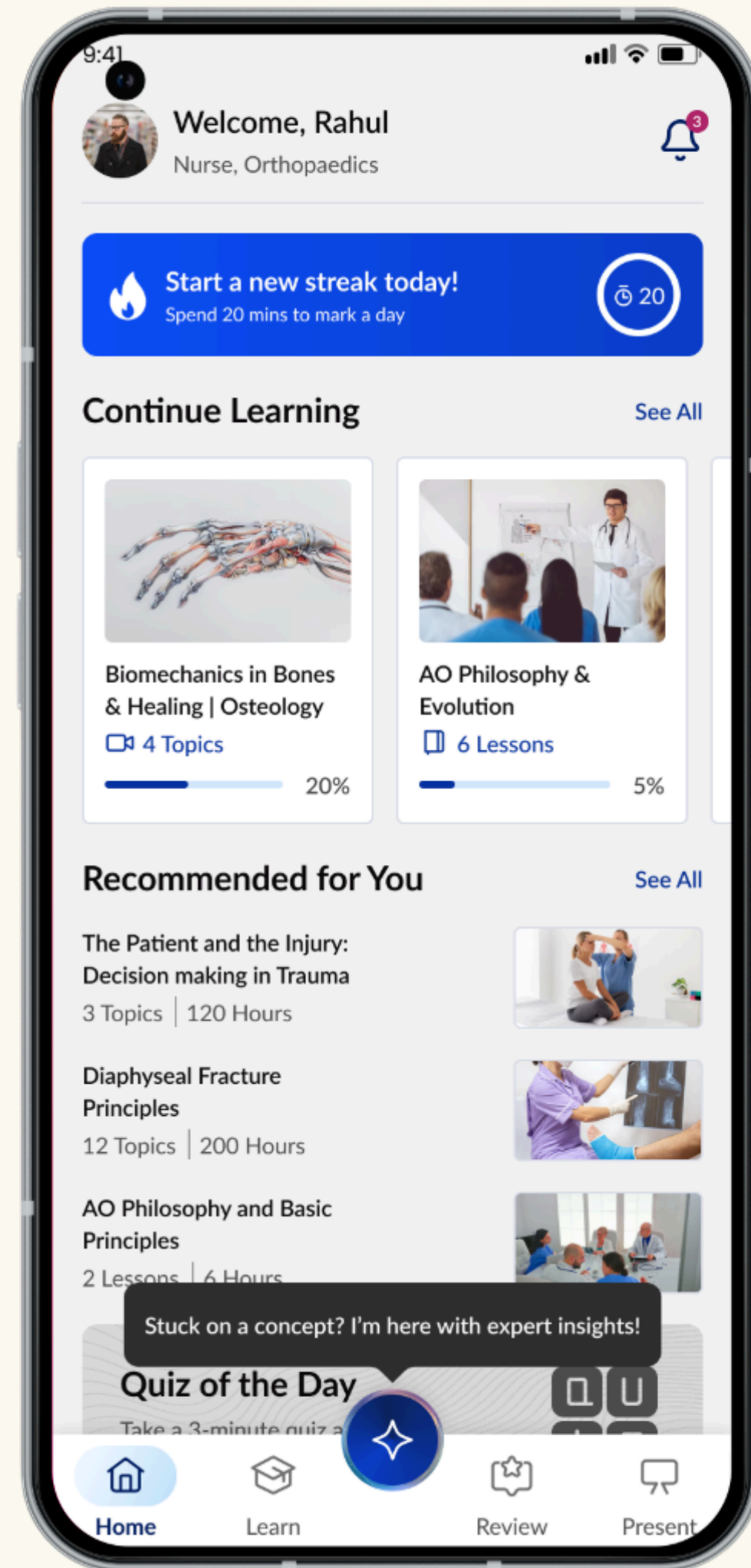
- Orthopedic Trauma (AO Trauma)
- Spine (AO Spine)
- Craniomaxillofacial (AO CMF)
- Reconstruction/Arthroplasty (AO Recon)
- Research & Innovation (AO Foundation, ARI, AO ITX, etc)

← Next

# Registration Flow

Redesigned as a step-by-step flow to prevent information overload and improve user onboarding

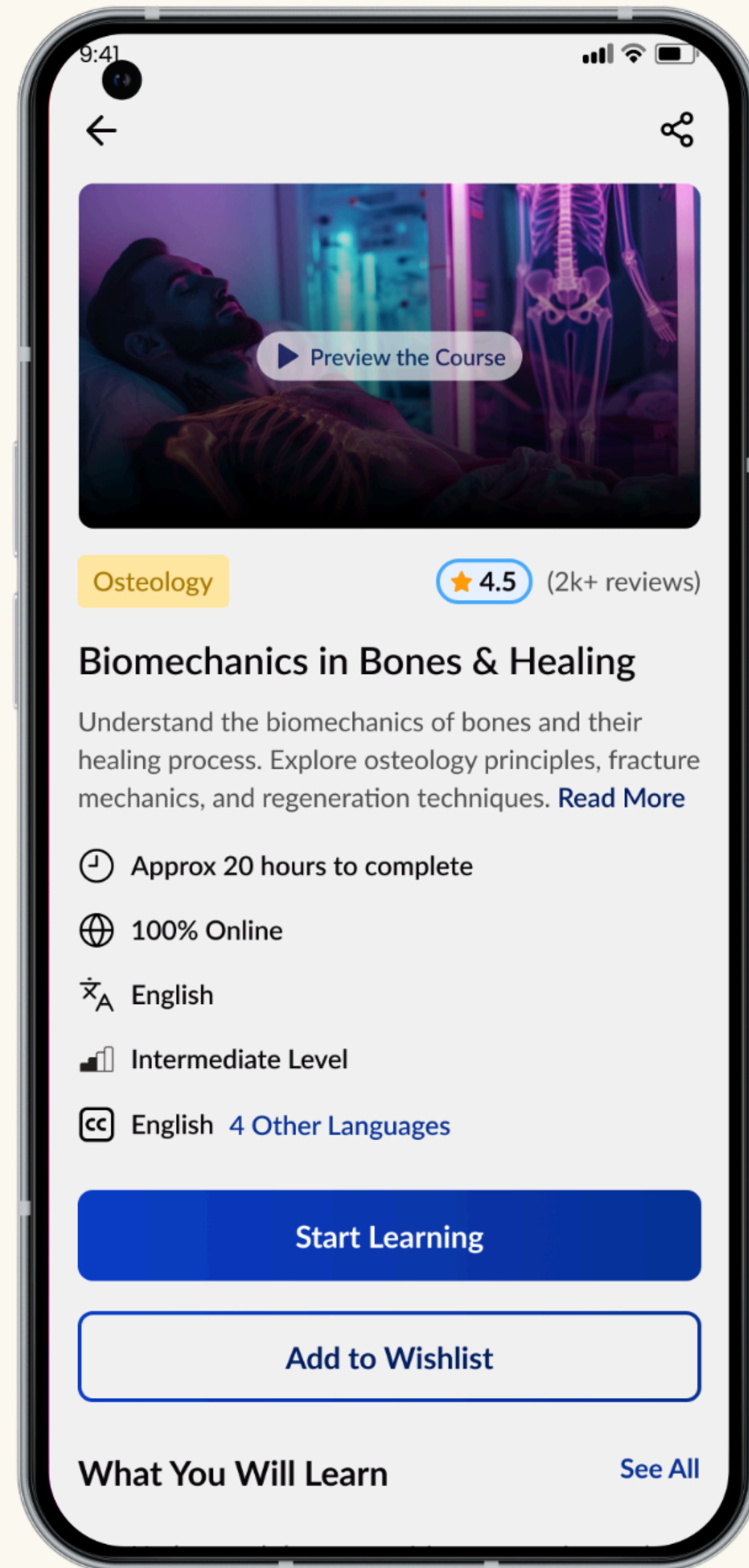




# Homepage (2 Design Options)

Two distinct designs with different placements and navigation for AO eduAI, offering unique layouts and user experiences.





# Course Detail Page

Improved readability  
and hierarchy to  
present course  
objectives, instructor  
details, and learning  
outcomes more clearly.\

**What You Will Learn** [See All](#)

- \* Understand the composition, properties, and mechanical behavior of bones under stress.
- \* Explore the biological stages of bone healing and factors influencing recovery.
- \* Learn how forces affect bone strength, remodeling, and injury risk.
- \* Study real-world cases and how biomechanics influence fracture treatment.
- \* Discover cutting-edge techniques in tissue engineering and orthopedic innovations.

**Curriculum**

25 Sections | 120 Lectures | 16h 9m Total Length

**Module 1: Introduction to Bone Biomechanics** —

- ▶ Basic structure and composition of bones 35m 24s
- ▶ Basic structure and composition of bones 40m 12s
- ▶ Basic structure and composition of bones 25m 56s


**Module 2: Bone Growth, Remodeling, and Adaptation** +

**Module 3: Fracture Mechanics & Injury Patterns** +

**Module 4: Healing and Regeneration of Bones** +


**Module 5: Biomechanical Considerations in Fracture Fixation** +

**Reviews** [See All](#)

 **William S. Cunningham** ★ 4.5

This course provided a clear understanding of bone healing mechanics, making complex concepts easy to grasp. A must for anyone in orthopedics!


2 days ago

 **Martha E. Thompson** ★ 4.3

Well-structured and insightful! The integration of biomechanics with osteology gave me a new perspective on fracture management.

2 weeks ago

**Instructor** [View Profile](#)

 **Dr. Amit Khanna**  
Professor of Orthopedics | Specialist in Biomechanics & Bone Healing

**Experience:** 15+ years in orthopedic research and clinical practice

**Expertise:** Fracture mechanics, skeletal trauma, and regenerative bone therapies

**Affiliation:** Senior Faculty, Department of Orthopedics, Raghav Medical University

**Publications:** Author of multiple research papers on bone remodeling and implant biomechanics

**FAQs** [See All](#)

Medical University

**Publications:** Author of multiple research papers on bone remodeling and implant biomechanics

**FAQs** [See All](#)

**What is the role of biomechanics in bone healing?** —


Biomechanics influences bone healing by affecting stress distribution, stability, and cell response. Proper loading promotes callus formation, while excessive movement or stress shielding can delay healing.

**How do different types of fractures impact the healing process?** +

**What are the key phases of bone healing, and how do they interact with biomechanics?** +


**How do implants and external fixation devices affect bone healing biomechanics?** +

**Similar Courses in Osteology**



**Biomechanics in Bones & Healing | Osteology**

4 Topics



**Pathophysiology of Bone Diseases**

6 Lessons

# Course Detail Page (Scroll)

# Thank You

We're excited to team up  
with you!



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🌐 **Website:** <https://www.awesum.design/>