



Softvery

SOLUTIONS

CASE STUDY

ABROAD LANGUAGE STUDY
BOOKING PLATFORM

HOW WE PARTNERED

International Language-Education Agency

- Product: Connecting students with Language Schools Abroad
- **Industry:** Education / Language Learning / Study Abroad

Status:

Live in app stores

Target Market:

- Students seeking language courses abroad

Speed:

11 weeks



Tech Setup and env prep

User registration and exploration

AI Features and Admin Readiness

Main Flow Readiness

Release build readiness

THE CHALLENGE

Our client needed a comprehensive mobile platform to help students discover and book language courses abroad.

- Enable students to browse and book language courses in multiple countries.
- Integrate **accommodation booking** directly with course selection.
- Provide **AI-powered chatbot** assistance for course discovery.
- Manage document verification (**visas, passports**) for international travel.
- Offer **additional services**: local SIM cards, airport transfers, guided tours, etc
- Support both guest browsing and registered user accounts.
- Include a **separate CRM system** for staff to manage bookings and verify documents.

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OUR SOLUTION

We built a complete mobile application for iOS and Android that serves as a one-stop platform for the entire study abroad experience.

Core User Journey:

- Discovery - Browse courses by destination, duration, and budget.
- Selection - Compare language schools with ratings and amenities.
- Booking - Reserve course + accommodation in one transaction.
- Extras - Add SIM cards, transfers, tours, and other services.
- Verification - Upload travel documents for staff review.
- Support - Book visa consultancy meetings with staff.

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KEY FEATURES - **COURSE DISCOVERY**

Search & Filter:

- Browse by destination
- Filter by course type (business, certification, general improvement)
- Set start date, duration, and budget parameters
- View real-time availability and pricing

AI-Powered Assistant:

- Chatbot interface helps students find perfect courses
- Asks clarifying questions about preferences and goals
- Provides personalized course recommendations
- Natural language interaction

School Information:

- Detailed school profiles with photos and videos
- Campus amenities (library, computer room, kitchen, student lounge)
- Location information and maps
- Student ratings and reviews
- Fun facts about destinations

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KEY FEATURES - BOOKING FLOW

Step 1 - Course Selection:

- View course details, schedules, and pricing
- See start date options (e.g., "starts every Monday")
- Select duration in weeks
- View included fees and materials

Step 3 - Additional Services:

- Local SIM card pre-ordering
- Airport transfer booking
- City tours and guided experiences
- Visa consultancy meetings

Step 2 - Accommodation:

- Browse available housing options automatically
- Filter by type (homestay, student residence, apartments)
- See meal plan options (half board, full board)
- Check availability for course dates
- Direct booking with transparent pricing

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KEY FEATURES - SMART FEATURES

Wishlist & Saved Searches:

- Save favorite courses for later
- Quick access to saved items
- Compare multiple options

Cart Management:

- Bundle course + accommodation + extras
- See total pricing with breakdown
- Price change notifications
- Review before purchase

Document Management:

- Upload passport, visa, and other documents
- Track verification status
- Receive notifications about document issues
- Resubmit if needed

Program Information:

- Study and holiday programs
- Study and work programs (with work permit details)
- Required documentation checklists
- Visa requirements by destination

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KEY FEATURES - DESTINATION INFORMATION

Each destination includes:

- Climate information with seasonal temperature ranges
- Cost of living estimates (accommodation, food, utilities, transport)
- Fun facts and cultural highlights
- Program types available
- Visa requirements and work permit details
- Required documentation

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AI CHATBOT ASSISTANT

Students tap the chatbot icon on the home screen and describe what they're looking for. The AI assistant asks clarifying questions about budget, dates, course intensity, and preferences, then provides personalized course recommendations. Users can refine their search through natural conversation, and the bot can add courses directly to their cart.

Technical Implementation:

- Powered by OpenAI GPT-4o and GPT-3.5 Turbo for intelligent responses.
- LangChain framework keeps complex flows and maintains dialogue context.
- Multi-turn conversation management remembers previous messages.
- Real-time integration with course databases for accurate availability and pricing.

Students get help anytime, regardless of timezone - and AI reduces search time compared to manual filtering.

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ADMIN CRM SYSTEM

We built a comprehensive CRM system for staff to manage the platform, built on a ready-made template and customized for specific needs.

Key Admin Features:

- Real-time analytics dashboard
- School management (create and edit language schools)
- Campus management (multiple locations per school)
- Course creation and management
- Document verification center
- Transaction monitoring
- User management
- Content management for destinations

Verification Workflow:

- Review uploaded student documents
- Approve or request resubmission
- Send notifications to students
- Track verification status

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TECHNICAL ARCHITECTURE & TECHNOLOGIES

Frontend & Mobile

- React with **Next.js** and **TypeScript** provide a modern foundation for the web platform, styled with **Tailwind CSS** and hosted on **Vercel** with global CDN. Mobile apps for **iOS** and **Android** are built with **React Native (Expo)** for faster delivery and consistency.

Backend & AI Integration

- **Node.js** with **NestJS** framework powers the API, using TypeScript throughout the stack. The AI chatbot uses **OpenAI GPT-4o** and **GPT-3.5 Turbo**, orchestrated by **LangChain** for context-aware conversations. **Python** handles advanced AI processing.

Database & Storage

- **AWS RDS PostgreSQL** manages all relational data. **AWS S3** stores documents and media files, delivered globally via **CloudFront CDN**. **Firebase Auth** handles user authentication securely.

Infrastructure & Operations

- **AWS ECS Fargate** runs containerized backend services. **AWS CloudWatch** monitors performance and logs system events. **Sentry** tracks frontend errors, while **Firebase Cloud Messaging** enables push notifications.



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BACKEND DEVELOPER

1 FRONTEND DEVELOPER (MOBILE)

1 ML/AI ENGINEER

1 DEVOPS ENGINEER

1 UI/UX DESIGNER

1 PROJECT MANAGER

1 QA Engineer

Development Approach:

- Agile methodology with regular client feedback
- Iterative design improvements
- Handled requirement changes during development
- Close collaboration with client stakeholders

TEAM AND DELIVERY

BUSINESS BENEFITS

- Streamlined booking process from discovery to confirmation
- Reduced manual administrative work through automated workflows
- Enhanced customer experience with AI assistance
- Centralized document management reducing verification time
- Additional revenue streams from bundled services

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I would like to extend a very big thank you to the entire team for successfully launching the app. Very impressed with the look and feel of the application and ease of use. I feel we can be confident and proud of what has been achieved to date, the journey continues and with this team I am confident of success. Thank you all.

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Planning a study-abroad platform?
Let's talk about your product.

PROJECT AT A GLANCE

International language-education
agency

7 specialists

11 weeks

Live in app stores