



BORDERLESS.AI

Immigration AI Advisor

Team: Borderless.AI
Sprint 0 Presentation



Agenda

- Team Member Roles and Responsibilities
- Problem Statement
- Project Description
- Personas
- Technologies
- Algorithms
- Project Schedule
- Team Working Agreement
- Retrospective



Team Member Roles and Responsibilities



Matt Borkowski

Developer

SCRUM Master



Miles ZhengFerrari

Developer

Team Leader



Nuvorish Paul

Developer



Raj Rahul Parekh

Developer



Santhosh Charudatta

Developer

All team members collaborate as developers, contributing to coding, testing, and feature development.



Problem Statement

The Challenge:

International students often face complex and time-sensitive immigration-related questions, and existing processes for getting accurate advice are slow. Many higher education institutions, particularly their international student offices, are under-resourced and operate on tight budgets, leaving advisers overworked and unable to keep up with growing demand. This results in delays and a frustrating experience for students seeking immediate immigration guidance.





Problem Statement

Hypothesis:

If we provide an AI-based tool that reads immigration documents and cross-references them with the latest regulations, we can offer faster, more accurate advice to international students. This would not only improve their experience but also ease the burden on student advisers, allowing institutions to better manage their limited resources and operate more efficiently within budget constraints.





Project Description

Project Name: Immigration AI Advisor

Team: Borderless.AI

Project Description:

Immigration AI Advisor is a AI-based application designed to assist international students with immigration-related queries by reading documents (I-20, I-94) and providing personalized advice based on immigration rules and policies.

Benefit Outcomes:

- Faster, more accurate immigration advice for international students.
- Reduced burden on international student offices with limited resources.
- Improved efficiency in managing immigration-related queries within budget constraints.

Github Link: <https://github.com/htmw/2024F-borderless.ai/wiki>



Personas

VP of Office of Global Services: Focuses on the big picture and long-term impact of the tool on the institution's support for international students.

Student Adviser: Overworked staff member, seeking ways to automate and simplify the advising process to reduce their workload.

International Student: Needs immediate, accurate immigration advice but often has to wait for overburdened human advisers.

Government USCIS Employee: Ensures compliance with immigration regulations and processes student visa and immigration status related applications.

Non-Profit Employee: Assists international students with legal and procedural advice, often outside of official channels.

Higher Education Admissions Personnel: Identifies needs within the international student community and offers feedback on system functionalities, also using the tool to promote institutional competitiveness.





Technologies

Languages & Frameworks:

Java, Python, ReactJS

Artificial Intelligence:

TensorFlow, PyTorch

Any additional technology we may discover and add as we move on to each sprints.



Algorithms

TensorFlow:

Utilized for natural language processing (NLP) and AI-driven document analysis.

Image Recognition:

Applied for reading and interpreting documents.

Pattern Recognition:

To identify key information like dates, terms, and legal statuses in uploaded forms.





Project Schedule

Our team will meet multiple times weekly both in-person and online via zoom.

Monday: Zoom call for planning 11:00am to 12:15pm

Wednesday: In-person development and collaboration 4:30pm to 5:50pm

Friday: Zoom call for progress updates and end-of-week wrap-up 12:00pm to 1:00pm





Team Working Agreement

Our team commits to clear and consistent communication using Zoom, Group Texts, and Jira. All meetings (Monday, Wednesday, Friday) are mandatory, and team members must respond to messages within 24 hours. We ensure that important updates are shared, and members collaborate early to avoid last-minute work or overload on anyone. If issues arise, we communicate promptly to address blockers and adjust timelines.

We respect deadlines and expect all tasks to be completed on time. No last-minute handovers will be tolerated, and members are responsible for requesting help early if needed. All tasks will be tracked through Jira, with progress updated regularly. Code must be submitted for peer review 48 hours before deadlines, and proper testing will be done to ensure quality.

We foster a culture of respect, ownership, and continuous improvement. Every team member takes responsibility for their assigned tasks and is encouraged to offer help where needed. During retrospectives, we reflect on the sprint and set actionable goals to enhance our processes and collaboration.





Retrospective

What Went Well?

Effective communication across Zoom and in-person meetings.

Brainstorms and tasks were completed on time with everyone's energetic contributions.

What Can Be Improved?

Updates were hard to track.

Deliverables were done too close to deadlines, increased stress.

Actionable Items in the Next Sprint:

Use Jira Updates: Team members will update their tasks in Jira together with group texts reminder to keep everyone on track.

Deliverables Timing: Ensure each members' work is submitted for review at least 48 hours before sprint end. This will be added as a task to check during sprint review.



Github Link

<https://github.com/htmw/2024F-borderless.ai/wiki>





THANK YOU!

