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A2J App

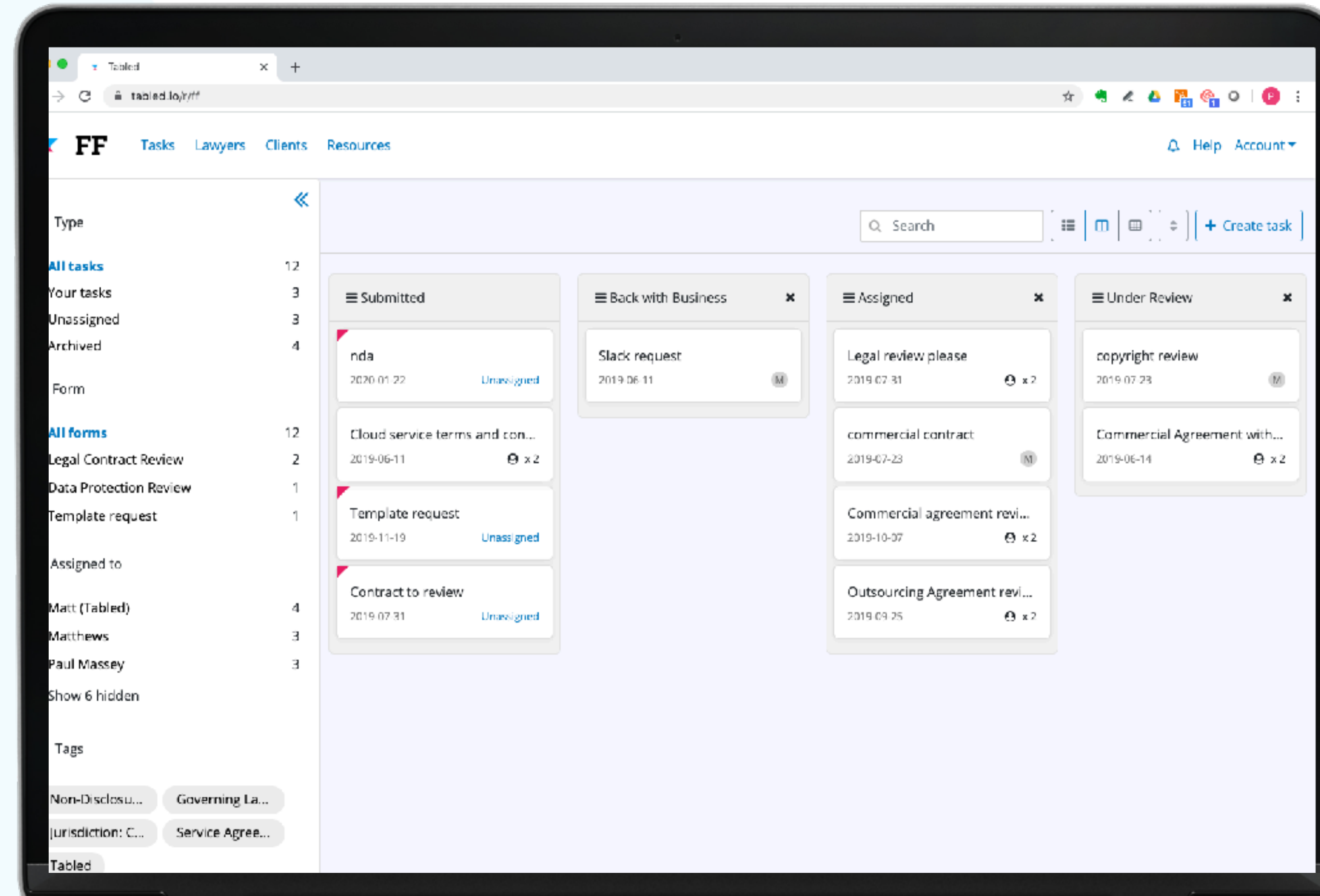
AI to Support Legal Pathways

By



**Northumbria
University**
NEWCASTLE

Intro to Tabled - Case Management and Legal Workflow Platform used by in house-legal, pro bono legal clinics and law firms

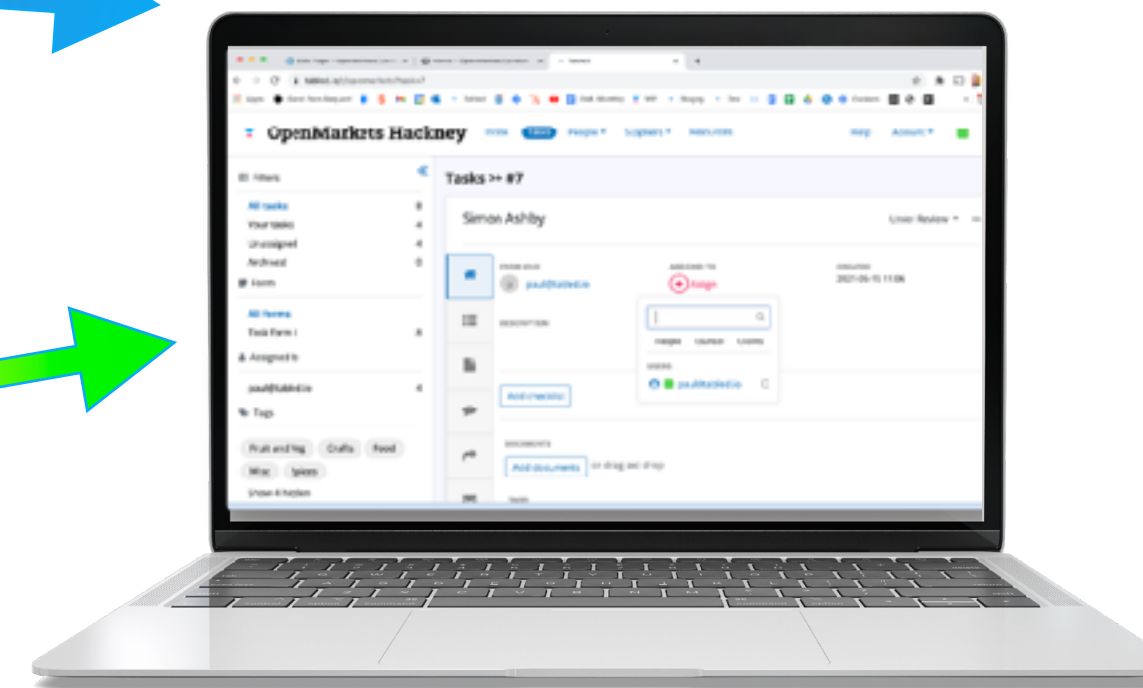
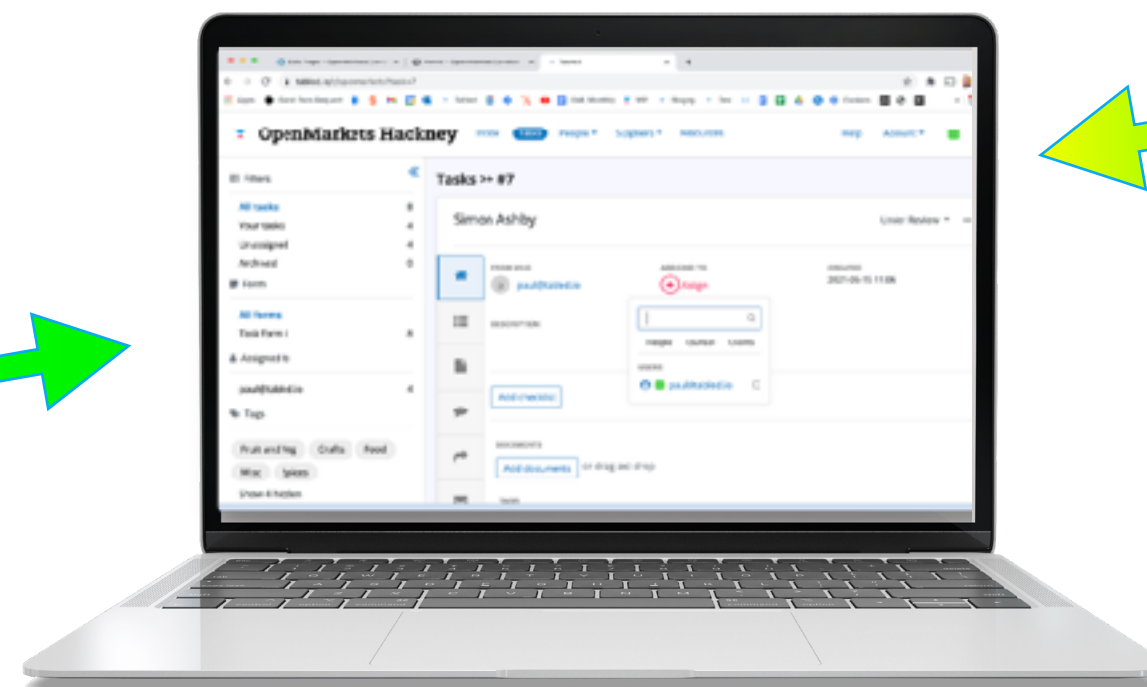
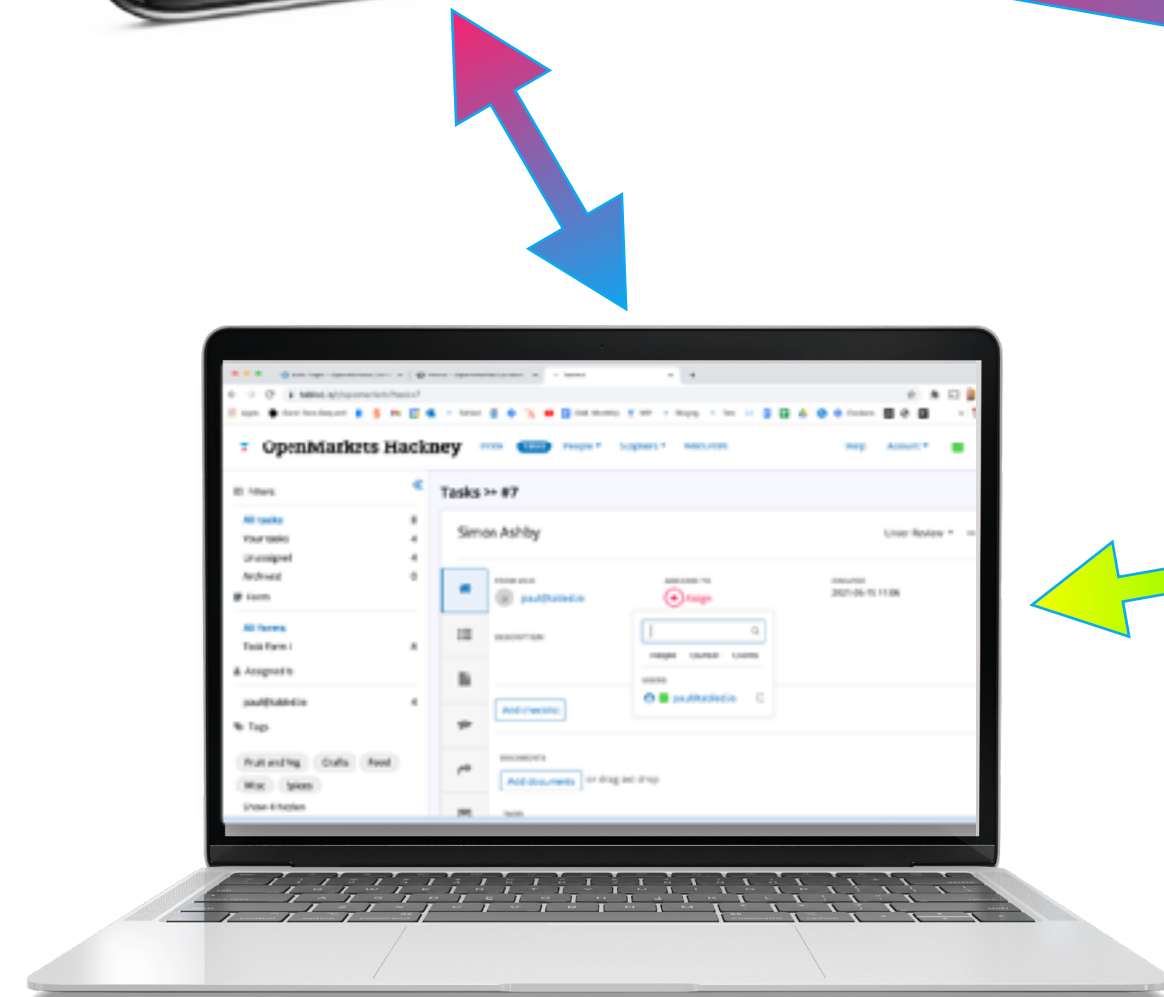
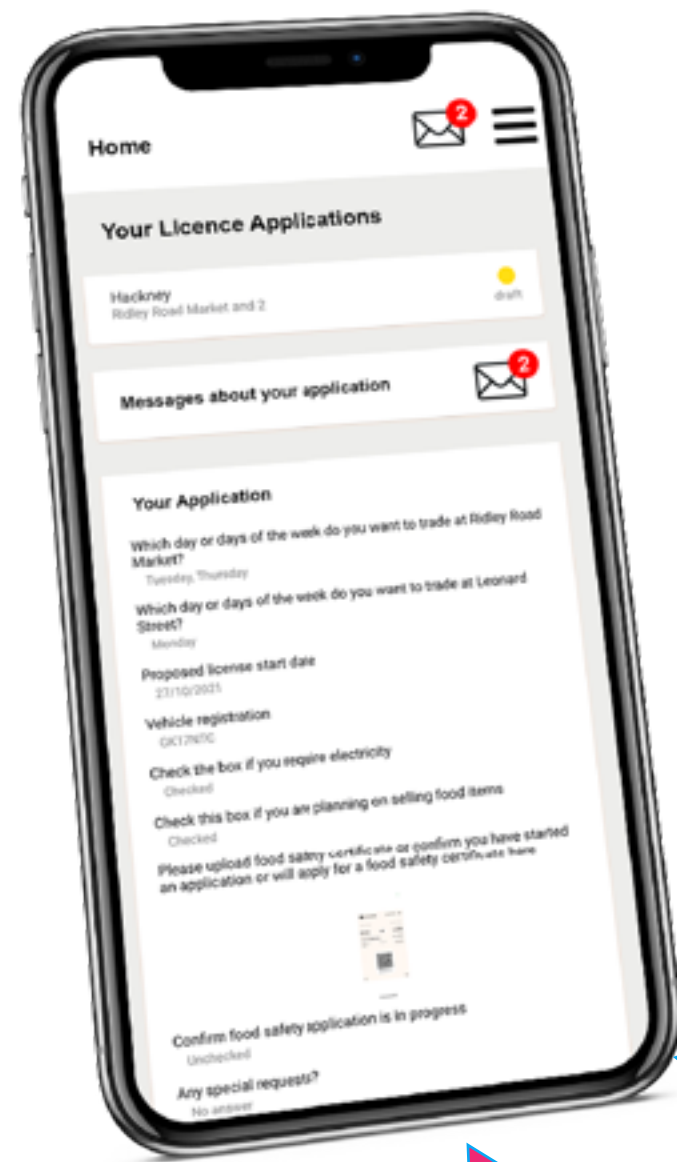


Integrated product enabling rapid App development

Workflow Platform for Record Management and Data Exchange

White Label App Connecting to Legal Provider case management.

No-Code Decision Tree Builder for self-serve legal workflows.



Project Odyssey

Opening the National Archive's legal data to AI for A2J



THE	
NATIONAL	
ARCHIVES	



Innovate UK Funded Project

Introduction

Sir Geoffrey Vos, the Master of the Rolls and President of the UK Civil Courts, stated,

"If GPT-4 (and its subsequent iterations) is going to realise its full potential for lawyers... it is going to have to be trained to understand the principles upon which lawyers, courts and judges operate... the present version of ChatGPT does not have a sufficiently reliable moral compass."

DALL-E depicts the Legal AI Odyssey



Small prompt changes in ChatGPT result in very different model outputs.

Need: Creates risk in legal context of inconsistent LLM outputs when used by Litigants in Person.

Project Odyssey seeks to address these risks to improve the LIP experience.

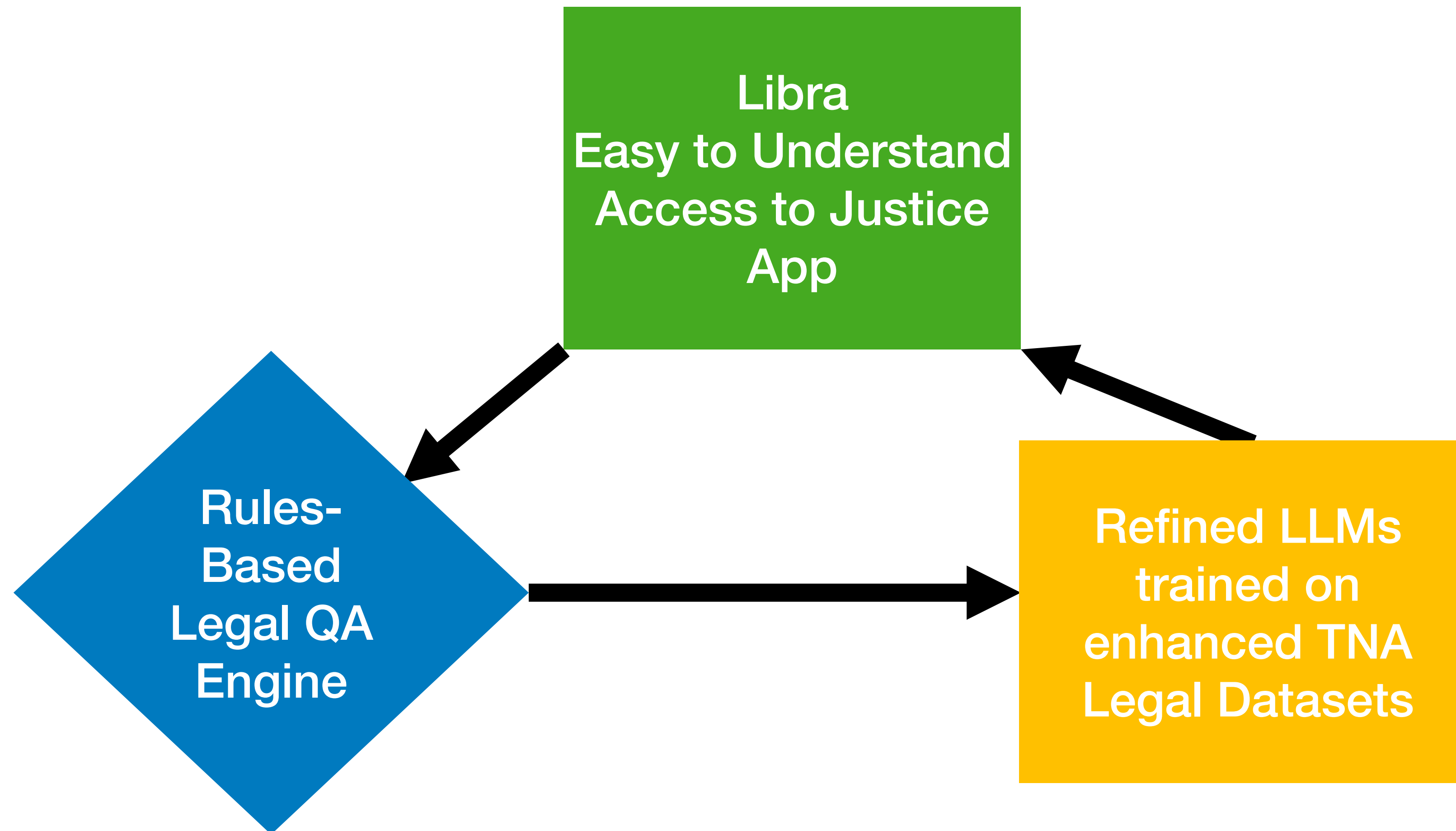
Project Odyssey addresses this multifaceted challenge in three stages:

(i) by enriching the National Archives Legislation and Find Case Law primary legal datasets with machine-readable metadata to be made available to all;

(ii) fine-tuning LLMs based on this enhanced data and using prompt-engineering to create standardised LLM inputs for enhanced outputs; and

(iii) delivering enhanced means of accessing this legal information via an Access to Justice (A2J) app to benefit litigants in person (LIPs) and SMEs.

Project Odyssey combines legal data refinement, data availability, novel approaches to application of Large Language models and consumer Access to Justice for ESG:



The Project will comprise:

- (i) **Enriching The National Archives XML files** with additional metadata specifically designed to improve interoperability and accuracy of LLMs. An automated GPT-based annotation system will be developed to ensure the ever expanding NA datasets remain annotated for all users
- (ii) **Fine-tuning & evaluation of GPT-based LLMs** on the corpus. State of the art LLMs (GPT, Llama2, Claude2) will be assessed, to hone the accuracy, ethics and legal suitability for use.
- (iii) **Rules-based LLM prompts for legal subject matter** information summarisation will be created for consistent input into LLMs.
- (iv) **With positive ESG outcomes, the Libra A2J app for litigants in person** and SMEs will be enhanced using the outputs of (i), (ii) and (iii). The app will enable LIPs to construct standardised prompts to access the fine-tuned LLMs, trained on the NA datasets, to achieve desired results.



Metadata enrichment

Logical reasoning remains challenging for LLMs, especially on out-of-distribution datasets. The project will enrich current TNA datasets to improve LLMs' logical reasoning on legal knowledge, in particular:

- **Deontic reasoning:** reasoning about norms (obligations, prohibitions, permissions) and related concepts (e.g., conflicts among norms).
- **Levels of generality:** differentiating conduct rules (for the general public to follow) and decision rules (a rule for a particular decision maker in a given context)
- **Connection between law and jurisprudence:** norms from legislation are the law, whereas judgments describe, interpret or develop the law. Connections between them are crucial for new judgments and for legal advice.
- **Interpretative hierarchies:** decisions can be overturned on appeal by a more senior court; the LLMs must be informed of which decisions override others.
- **Temporal awareness and reasoning:** annotating temporal information to ensure correct version linking and prevent time-wise hallucinations.

Outputs of Project Odyssey

Legal AI Project to be incorporated into the forthcoming Libra A2J App being built by Tabled and Northumbria University Law Clinic and other partners.

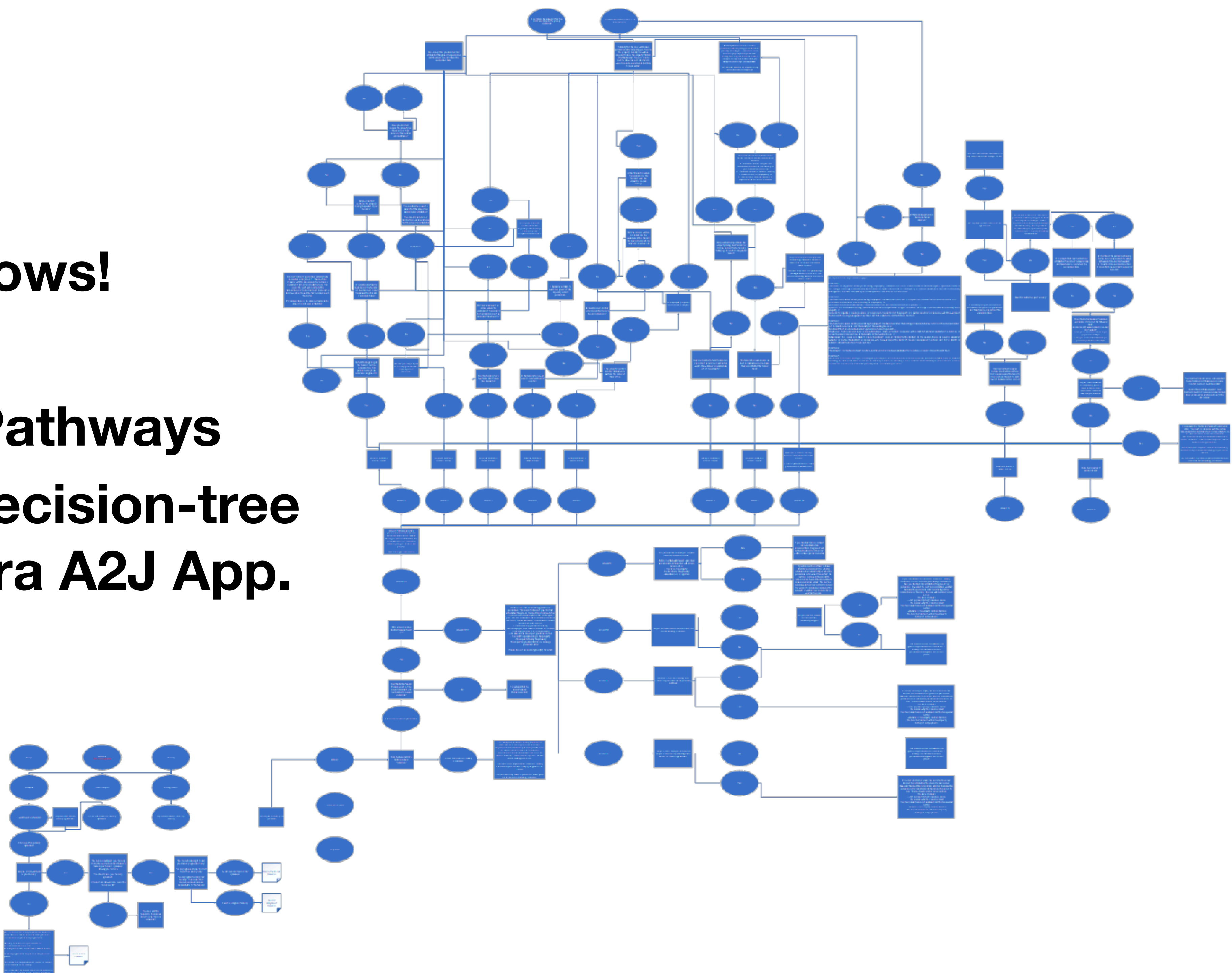
Libra currently uses decision-trees to create legal workflows to enable Litigants in person to self-serve on legal problems and/or be referred to relevant legal providers where hands on support is needed.

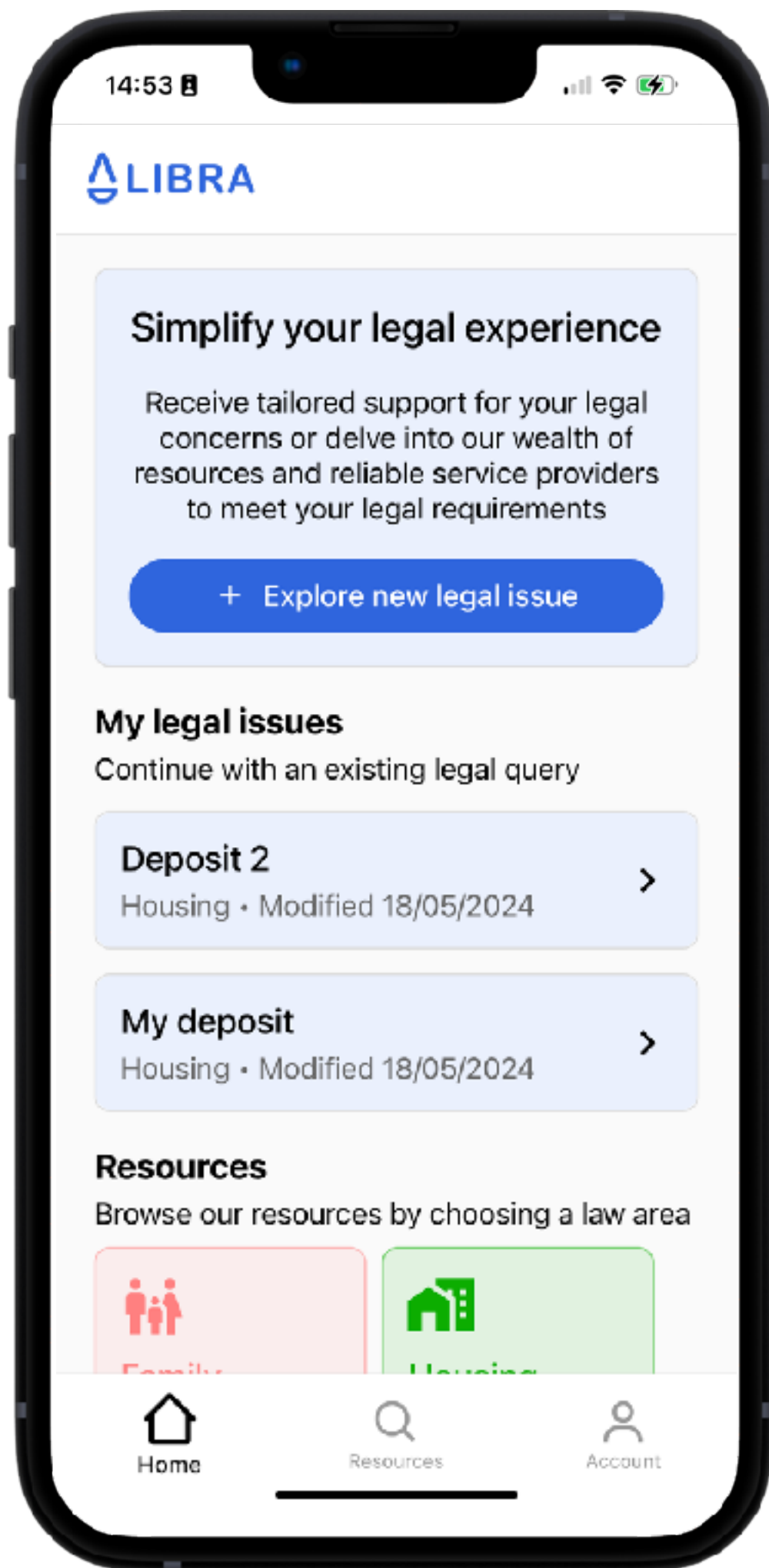
AI aimed to enhance automation (eg document creation), introduce chat with decision-trees to standardise LLM prompts.



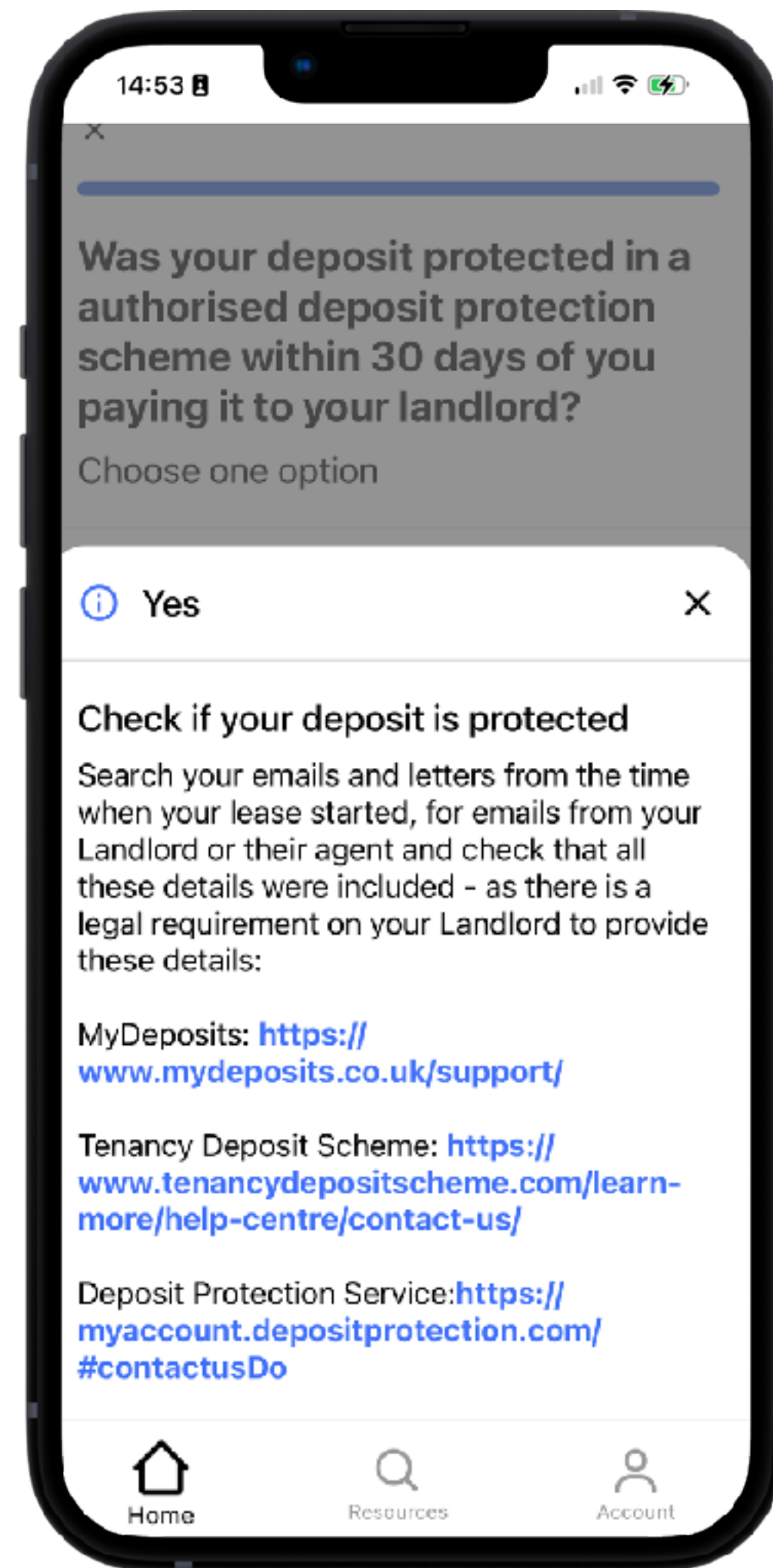
LIP Legal Workflows!

Complex Legal Pathways translated into decision-tree workflows in Libra A2J App.

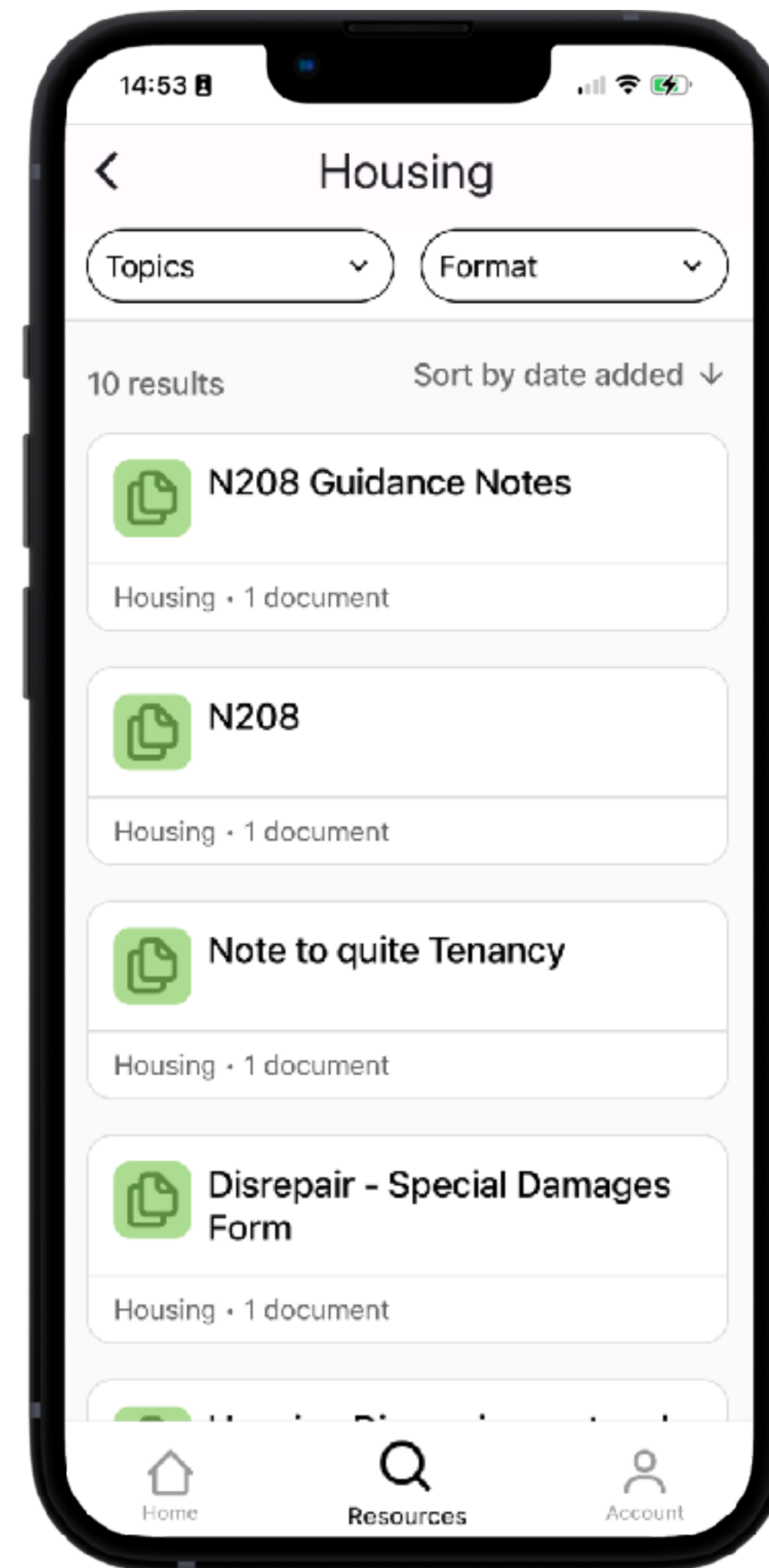




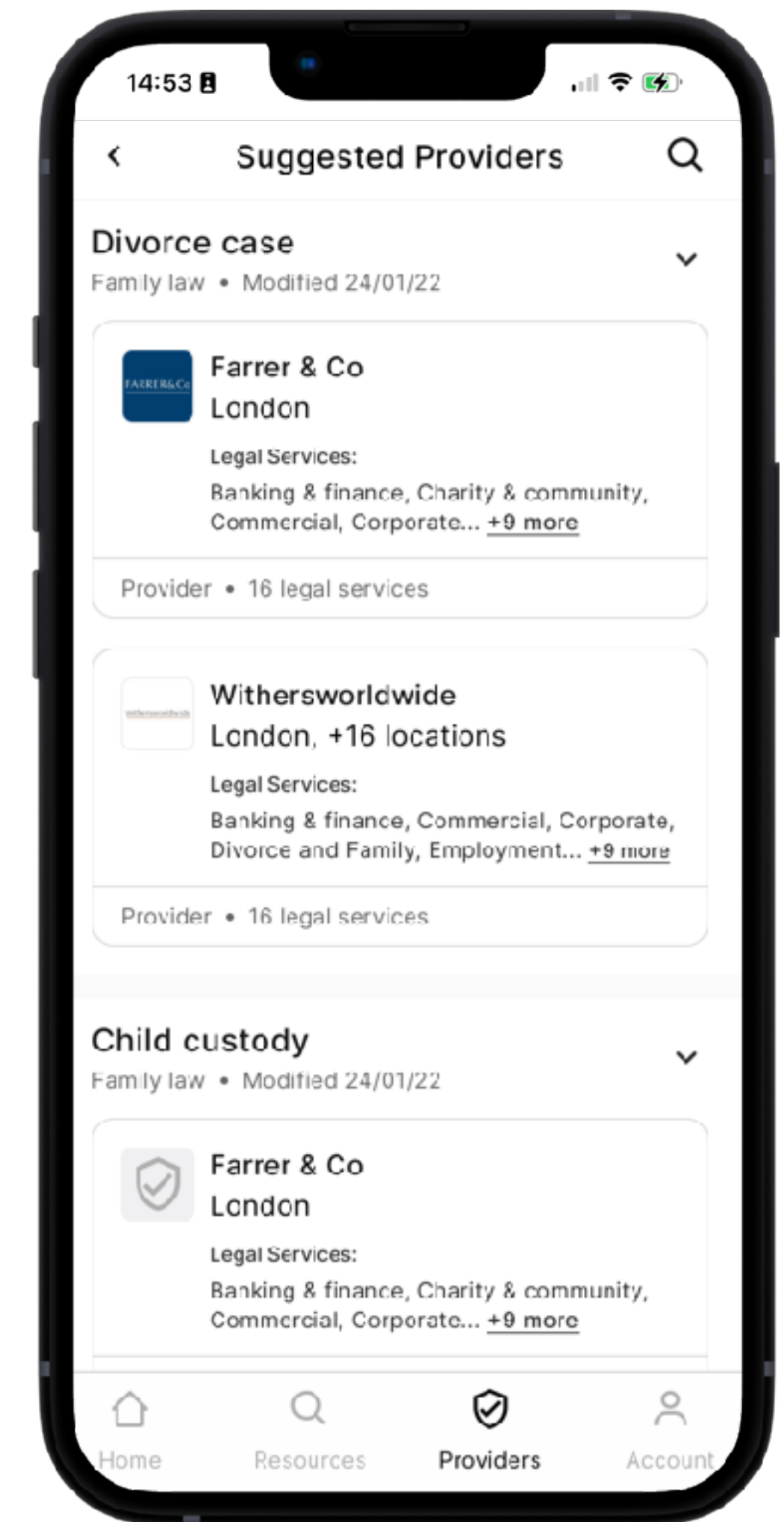
LIPs manage multiple legal issues in one place, across legal areas.



LIPs navigate legal issue workflows to understand and resolve issues with referrals to resources, dispute resolution services and advisors



App includes resources, such as template documents, links to other services.



Legal Provider database for relevant referrals of more informed LIPs to law clinics, legal aid solicitors, solicitors etc



Sign up as a provider

<https://libra.law>

Or email

paul@tabled.io

