



Field Session Project Proposal

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Company Description

[Qwally](#) is a Golden-based startup developing a platform for cities and local governments to better engage with and support the entrepreneurs and small business owners in their communities. We work with clients across the country to make processes such as business licensing, permitting, and certification easier to understand and navigate for entrepreneurs who are short on time and may not have a law degree to decipher legal requirements imposed by Federal, State, and Local laws and regulations.

Project Description

Location: Remote, with team meetings either on campus or on Zoom

Team Size: 3-5 students

Technology: GPT-4, Langchain, Milivus, Node, React, Python

Our core offering, the Qwally Small Business Navigator, currently relies on templates, curated content, and expert input and review to implement a fully deterministic mapping between an entrepreneur's goals and the regulatory compliance steps necessary to achieve them. While this approach ensures an extremely high level of information accuracy and quality, it is a difficult approach to scale.

Qwally aims to develop an innovative solution to this goals/requirements mapping problem using generative AI to help entrepreneurs and small business owners more easily learn about and understand laws and regulations that impact their businesses. The primary

objective of this project is to enhance the existing Qwally Small Business Navigator by incorporating additional features and capabilities. Our team will provide high-level guidance for the development process, using [this open-source solution](#) as a starting point. The proposed steps for achieving the project goal include:

1. Ingest, vectorize, and store publicly available data about laws and regulations relevant to business owners from sources such as government websites, legal databases, and official publications.
2. Combine structured and unstructured input from end users through an interactive interface to identify business objectives and context that will be guided by our team.
3. Utilize a Large Language Model (e.g., GPT-4) to shape the system response so that it is presented as a clear list of actions for a business owner to become and/or remain in compliance with laws and regulations. We will provide detailed examples of this.
4. Experiment with both generative and deterministic approaches to producing final content, which could include fine-tuning of LLMs or facilitating unsupervised learning using LLM agents. Qwally will provide subject matter experts to give clear feedback on the sufficiency and accuracy of content delivered to end users.
5. Evaluate and refine the AI output to ensure accuracy and relevance, incorporating user feedback to iteratively improve the system.
6. Deliverables include the design, code, processes and documentation artifacts for the solution.

Career Opportunities

Qwally is a growing company and is actively seeking new team members. Internships and full-time opportunities may be available at the end of the project.

Intellectual Property & Proprietary Information

Students will be asked to sign a proprietary information and intellectual property assignment agreement (NDA). Intellectual property rights to all code, data and documentation will be retained by Qwally. However, students are free to use the knowledge and know-how they learn to help their own careers going forward.