

Backend / AI Agents + Server side management of data

- Most likely Python, unless speed becomes an issue

AI Agents

- Web Scraper - collect data through requests
- Data Storer - formats and serialized collected data to relevant text, xml and json files
- Inquirer - uses a data source to generate a question(s) for the relevant topic (using either a fine tuned model or RAG provided by the data store)
- Planner - creates a training plan for the specific domain, with any room for adjustments
- Teacher - uses a given training plan, with the current progress/location of the current user to teach them the next topic/recap the current topic

Frontend

- Need a simple website to allow a user to create, manage and delete a domain
 - The domain is a topic area with well defined scopes on what needs to be taught, and the user can choose to provide data sources to be used.
 - This will be maintained through an organization object that can contain many domains
- Three types of users
 - A regular user
 - A maintainer
 - An organisation admin
- Using [vue.js](https://vuejs.org/) or some other frontend framework with Typescript to handle requests

Pages

- Home
 - Contains intro to website and purpose, explains that this is for a university project etc.
- Explore
 - Features of website and videos for using them
- Organisation
 - Management of organisation
 - Invite code for users to join it
 - Can assign roles and permissions
- Training
 - Depends on the domain path provided by the organisation
 - Users can use this to be trained on a specific domain
 - Most agent endpoints will be triggered here depending on the action that needs to be taken