

Project Proposal - External expert search

1. Introduction

Futurice has been constantly growing and it has introduced new challenges in knowledge sharing. When the company has grown internationally, knowledge gets scattered in different systems, channels & discussions. In a small organisation, people can easily know who knows what, but as a company grows, the right person is harder to find. Companies have profile pages and internal CVs, but those are not always up-to-date and might not reflect the reality. Futurice has solved this internally with BubbleBurster, a tool to find the right expert based on public company data. The search tool lets you find the right expert, based on public calendar events, hour markings and public chat discussions.



Based on our experiences with BubbleBurster, Futurice has identified a need for an **external expert search tool**. The need is evident in knowledge business, where sparring and insights are needed in driving the company and client business forward. Again, we're aiming to utilise the public digital footprint through different external sources, such as Twitter, LinkedIn etc. The goal is to answer the question: **Who has been working with this topic? Who knows about this topic?**

This experiment is part of Futurice Exponential, a program that researches and develops technologies and solutions which aims to disrupt the knowledge work. This includes enhancing the existing ways of working or ultimately, change the ways work is conducted on a deeper

level. At Futurice, we believe knowledge is created through people interacting with each other, or, through the social construction of new knowledge. Therefore, our aim in Exponential is to support in achieving meaningful social interactions across the organization.

2. Project goals

The main goals of the collaboration project are to develop a browser-based mobile-first user interface for an external Bubble Burster.

Application requirements:

- Possibility to search for a topic in the UI
- Application returns potential persons
- Application utilises multiple external and publicly available data sources

There's a possibility to utilize the current UI of BubbleBurster.

3. Technologies

- The solution should be a browser-based application
- Students can affect the technology-selection, however, Elasticsearch or Aito.AI are recommended for the search. There is no need for specialised data science skills as recommended technologies will handle that part.
- Futurice will provide the initial list of potential and prioritised data sources, but sources can be modified and reprioritized during the course.
- Futurice offers expertise and help with web technologies used to build the application.

The current BubbleBurster is developed using the following frameworks and technologies: **XXX**.

4. Requirements for the students

- The students should be familiar with web development basics. No further experience with React is required but preferred. Experience on any of the following: Docker, Node.js, Express, Typescript and Postgres is a plus.
- All code, documentation and presentations should be written in English.
- The team should be familiar with and adopt best practices in version control, including branching, pull requests etc. Github is the required service for storing the repository

Otherwise, we hope for commitment and passion for the work at hand. The scope of the project is flexible and can be adjusted based on the team's previous experience and motivation.

5. Legal Issues

Intellectual Property Rights (IPR):

The results will be owned by Futurice. Open source licensing to be decided.

A non-disclosure agreement (NDA)

Signing the NDA included in the Aalto's contract template is required.

6. Client

Foturice

Foturice is a digital service house that has offices in Helsinki, Tampere, London, Berlin, Munich, Stuttgart, Stockholm and Oslo. We employ over 600 experts in the fields of software development, design, and business. Our main focus is to help our customers grow their ability to work and thrive in the digital era.

Foturice offers personnel to guide students during the course. Sprint plannings and demos can be held at Futurice's office.

Client representative(s)*

Product Owner

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7. Additional information -