TUDelft Delft University of Technology

Student Project Proposal

Design and test a prototype a Virtual Assistant to help researcher and students for writing a publication.

Project description

TU Delft Library is an innovative library, always looking for a creative solution for the future. Library wants to help researchers and students to write a scientific publication. A "Virtual Assistant" is one of the posibilities.

The goal of this internship is the technical implementation of a prototype "Virtual Assistant", which helps students and researchers to write a report, Thesis or dissertation. It is intended that "Virtual Assistant" provides personal advice based on the general information (layout, spelling check, schedule appointments in the calendar, making planning for the delivery of final results, etc) and personal information of the user (previous scientific studies, status of his / her work, previous feedback from rewierers). So a personal advice depends on the knowledge and experience of the user , but also is focused on the current situation and stage of the publication. Because software has access to old and also new personal development of the user, software learns more about the user and can help better at future activities (AI). This project could implement on one of the following solutions: desktop assistant (Windows, Mac OS), web browser (add-on) or mobile (iOS, Android). Students can choose one of these solutions and implement a software. At the end of the project the software would be available as an open source.

Requirements

- To study which solution (Desktop, Web, mobile or add-on) is better.
- Using voice command as a input command.
- Scheduling deadline in the calendar.
- Assistant suggests a layout associated with the faculty and study directon.
- Assistant saves all the feedback from reviewers. The feedback is also used to make the Assistant smarter on both personal and general level (AI).
- Notify on existing support services TU Delft.

Wishes

- Assistant checked reference list and citation style.

Comment [SSJ1]: Does these knowledge and experience differs for each researcher or does this boils down to common catagories(e.g. begiiner,intermediate,professional)

Comment [SSJ2]: Last configuration of the us will be saved.

Comment [SSJ3]: Can you give some exampl of such an activity?

Comment [SSJ4]: Who are the stake holders the prject?

Comment [SSJ5]: is the reviewer editions performed in the program itself ? or need to fetch externally?

• Assistant does grammar, writing style and spelling check. Recognizes a conflicting porposal or requirements.
• Assistant makes planning in the agenda for each section of publication.
• Assistant does plagiarism check.

At the end of the internship, Library expects a report containing: functional design, technical implementation of the prototype, advice and recommendations and a working prototype. For this project we look for an intern in the discipline Computer Science, who is critical, self-motivated and have good communication skills. You dare to ask questions and make a clear requirements.

Background

Technique of Virtual Assistant is new. TU Delft Library wants to clearify how-far this technique can be used for the clients (students and researchers). With this prototype Library wants to know more about the capbility of this technique. In this application the Library wants specially to learn more about "voice command" and AI.

Practical Information

This project is offered from TU Delft Library by R & D team (supervision).
There is an allowance available (300 euros / month). It is desirable that at least a portion of the work takes place in the Library, Prometheusplein 1, Delft. A workstation and required software available.

Project team

Begeleiding / supervisie
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<name of the TU Delft supervisor>, <email-contact>, <phone-contact>

Comment [SSJ6]: Not clear for me exactly wh[at] type of conflict occurs

Comment [SSJ7]: Advice and recommandati[on] on our prototype improvement or in general conte[xt]