

## Project 2018.P02: OLLE Evolution

### Requirement

A client (the UNNC Language Centre) has requested a software application to support and augment existing online language learning exchange (OLLE) at UNNC.

### Background

In 2017, stakeholders (including both students and staff at UNNC, and former staff) identified a desire to enhance online (foreign) language learning provision at UNNC. A team of software engineers addressed this project over the 2017-2018 academic year, producing a preliminary prototype, and identifying areas for further development. The next phase of this project will require examination of the prototype and documentation, and potential further requirements engineering to see if stakeholders' ideas have changed, or are being met. The system will need to evolve to include those aspects not yet implemented.

### Project Outline

The selected students will form a software engineering team, and work together to complete a full cycle (maybe several full cycles) of the software engineering process, resulting in delivery of a system, as requested by the client.

The SE team will need to go through a complete requirements engineering process to identify the exact SE project requirements. Part of this will involve applying an appropriate requirements elicitation methodology. Part of this will also involve evaluation of the current prototype, and requirements documentation from 2017-2018.

The team will need to make informed decisions about which SE process approaches or methodologies to apply to this project. (Experiences from previous SE teams may prove useful.)

Over the course of the project, the SE team will need to produce several artefacts, including (but not limited to):

- a report on the current situation
- a system requirements specification
- design documentation
- team management and planning documentation
- prototypes
- progress reports
- verification and validation plans
- code
- code documentation
- instructions manual

The target goal of the SE project will be to deliver, on time, a system that can support the OLLE stakeholders vision of enhanced online language learning and exchange for UNNC students. Two informal visions of this, from the clients' perspective, have been proposed as follows:

“A social networking language learning APP in the form of a semi-open educational resource within the University of Nottingham and its partner universities; with a fee paying version/aspect for all other external users.”

And:

“The aim of this project will be to develop the OLLE app that has been created last year. In the first phase, OLLE students and module convener provided the basic information to create a new app for peer online support to learn languages. The basic functions have been created, however in order to release for users we need to develop new features like online chat, the browsing and the appearance of the app. Therefore we need a team of software engineering to continue with the project.”