

# Project Requirements

Project work is two part operation:

First you need to submit a design document for the project, where you specify the application you are going to implement. The design is checked by a teacher and once it has been accepted (revisions may be required), you can proceed with the project itself.

The final application consisting of documented code and updated version of the design document is the second submission.

If you are planning to do the project work, you must submit your plan before summer.

If you submit your final product before June, you will get credits before summer. If you return your final product before September, you get your credits in September (the date marked into system will be the date you submitted the accepted version). Projects won't be accepted after the start of September unless special agreement has been made.

The project work should be a full application with a graphical user interface. Features must include:

- at least 5 different operations a user can do to the manipulated data (updating numerical and textual information counts as one operation, no matter how many fields of data there are)
- undo and redo
- settings, where a user can adjust at least 3 different parameters in the interface
- keyboard shortcuts and support for keyboard navigation
- the interface should have at least one structural component (table, tree etc. Can be in settings view)

In addition, at least 3 of the following features must be included:

- loading a file or other external resource which the user chooses (in web application from server)
- saving the data (file or server)
- implementation follows MVC structure
- internationalization is properly implemented, at least two languages for the interface
- printing
- cut/copy/paste and/or drag and drop for data that is not textual
- contain some custom component with custom painting (or possibly custom html visuals, e.g., in React)
- at least one component uses a custom renderer