# PORTFOLIO

## UX / UI DESIGN PROJECTS

# KRYSTOF NOVAK

CV:  KVNOVAK.CZ/CV

# CARDFILE.IT

Universal Cardfile Web Application
Master Thesis - CTU Prague

Design of a universal cardfile application. First part of the design process consisted of a thorough analysis of competing products and of a user-survey research. Storyboards of possible use scenarios followed by Personas modeling and Hierarchical task analysis (HTA).

Based on this analysis, the concept of the application was proposed followed by extensive evaluation of possible functional and non-functional requirements. Mockups of key components were drawn and later converted into a Lo-Fi application prototype built using Figma.

Findings of testing of this prototype were subsequently applied in the design of a functional Hi-Fi prototype implemented using JavaScript, HTML+CSS and Google Firebase. Hi-Fi prototype was evaluated with scenario-based tests and with long-term testing by real world users.
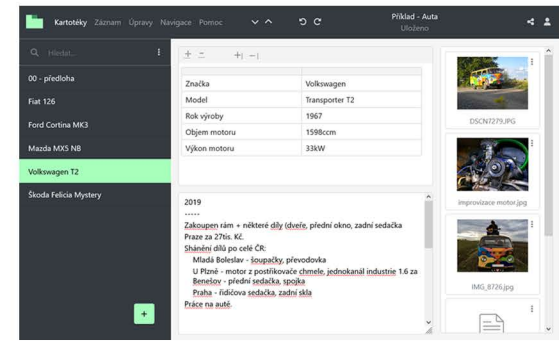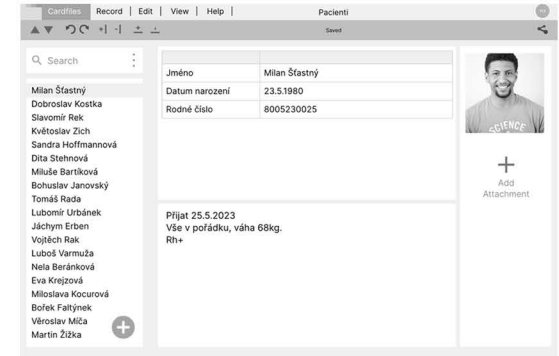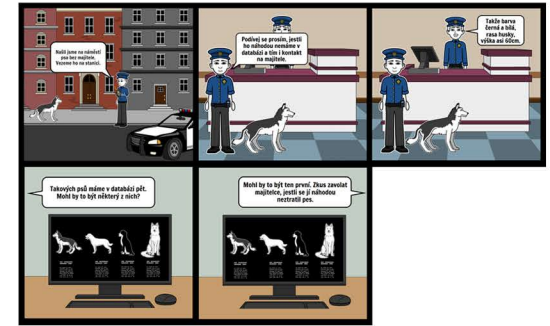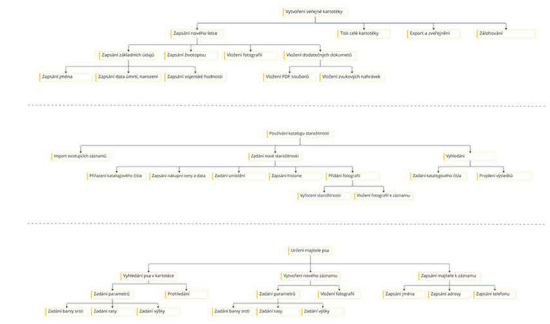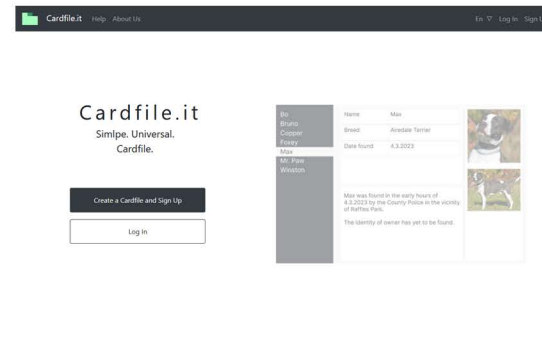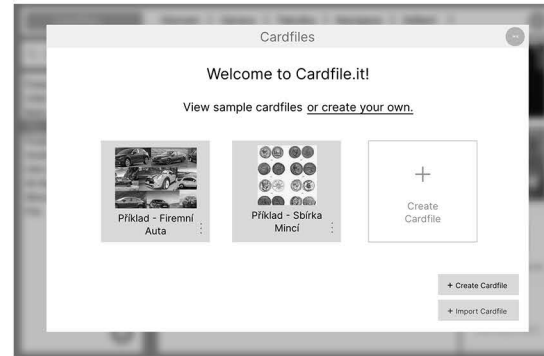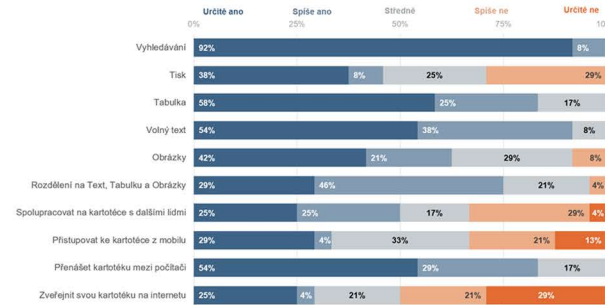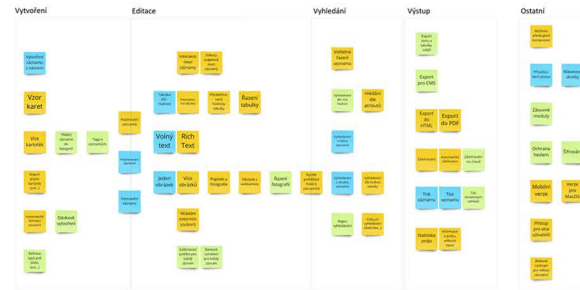
# FREE-D

Touch-free 3D model viewing interface
HCI Course - NTU Singapore

In certain situations it is impossible to use hands when viewing 3D models, whether the user's hands are occupied by sculpting, drawing, handcrafting or for example by a surgery.

After analysis of competing products, and mockup testing of possible solutions for such scenarios a simple to use natural language commanded interface was designed. Hi-Fi prototype was created using C++. Photomontage of use.



# VPO

**PRAGUE FORTIFICATION DEVELOPMENT**

Web application for history enthusiasts
Bachelor Thesis - CTU Prague

Web application visualising the development of Prague fortifications using historical maps and points of interest. An analysis of visualisation approaches was conducted followed by study of particularities of historical maps.

The design was discussed with experts in map application development and a Proto.io Lo-Fi prototype was tested with potential users. Resulting application was implemented using PHP (Laravel framework), JS, PostgreSQL and SCSS.
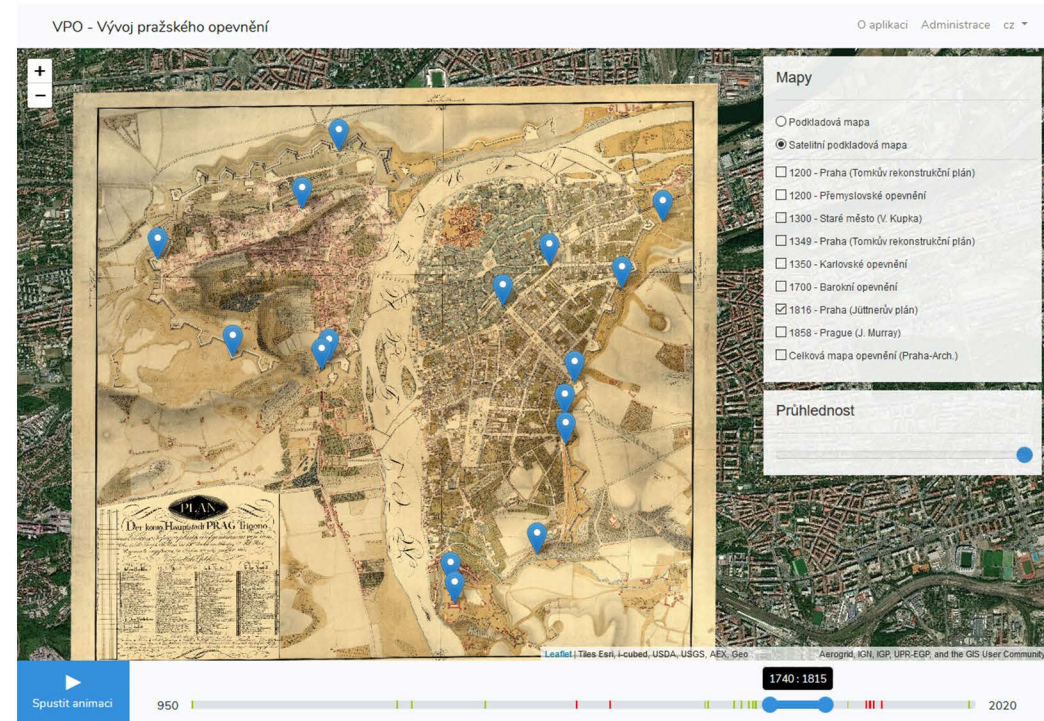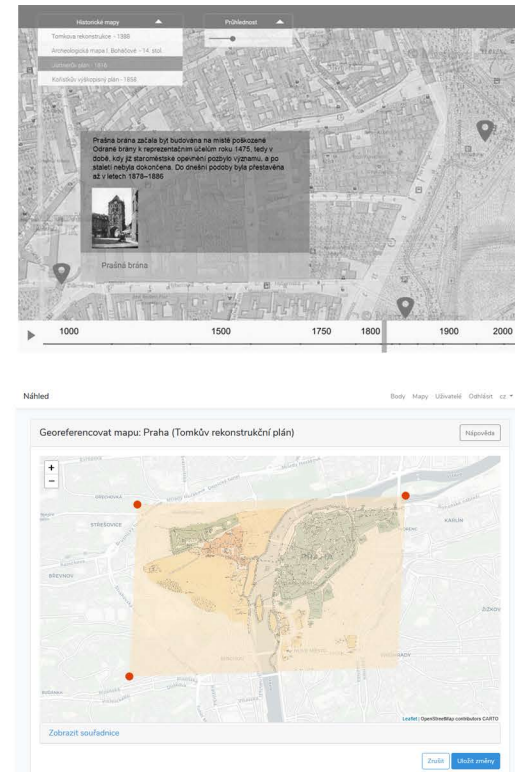
# PORTFOLIO

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PHOTOGRAPHY

# PHOTOGRAPHY

Photojournalism and Art-Photography

www.kvnovak.cz

Photography is one of my strongest passions as it requires creativity, observation instincts and a sense for visual language.

My photojournalism works were repeatedly published in various Czech newspapers and the events I captured range from mass political protests through music festivals to firefighting.

In the art-photography I focus on capturing minimalistic images with strong atmosphere. My art works were presented at several exhibitions.

My photography portfolio can be found at www.kvnovak.cz