

EXHIBIT

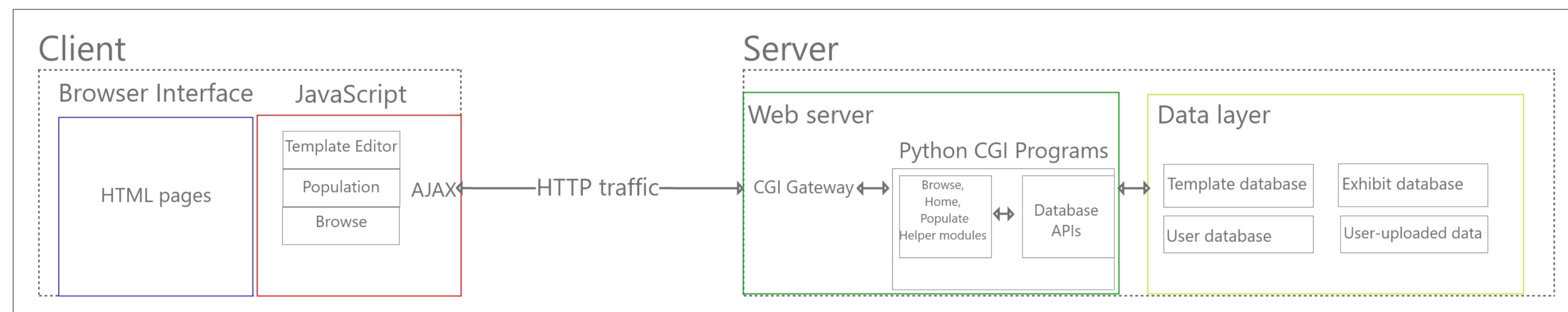
An online tool for digital presentations of cultural heritage artefacts

Aim

Our main objective was to create a presentation software tool with integrated upload of digital cultural heritage content. In addition, customisability of styles and sharing of completed presentations ("exhibits") were also key objectives. Our target group was cultural heritage professionals who may not be technologically adept, meaning ease of use was an important consideration.

Design

EXHIBIT is a dynamic Web application built using the Common Gateway Interface. JavaScript and HTML were used for client-side scripting, while Python programs carried out server tasks. JSON files were used to store template and exhibit content and metadata.



An overview of EXHIBIT's architecture

Evaluation

Heuristic Evaluation

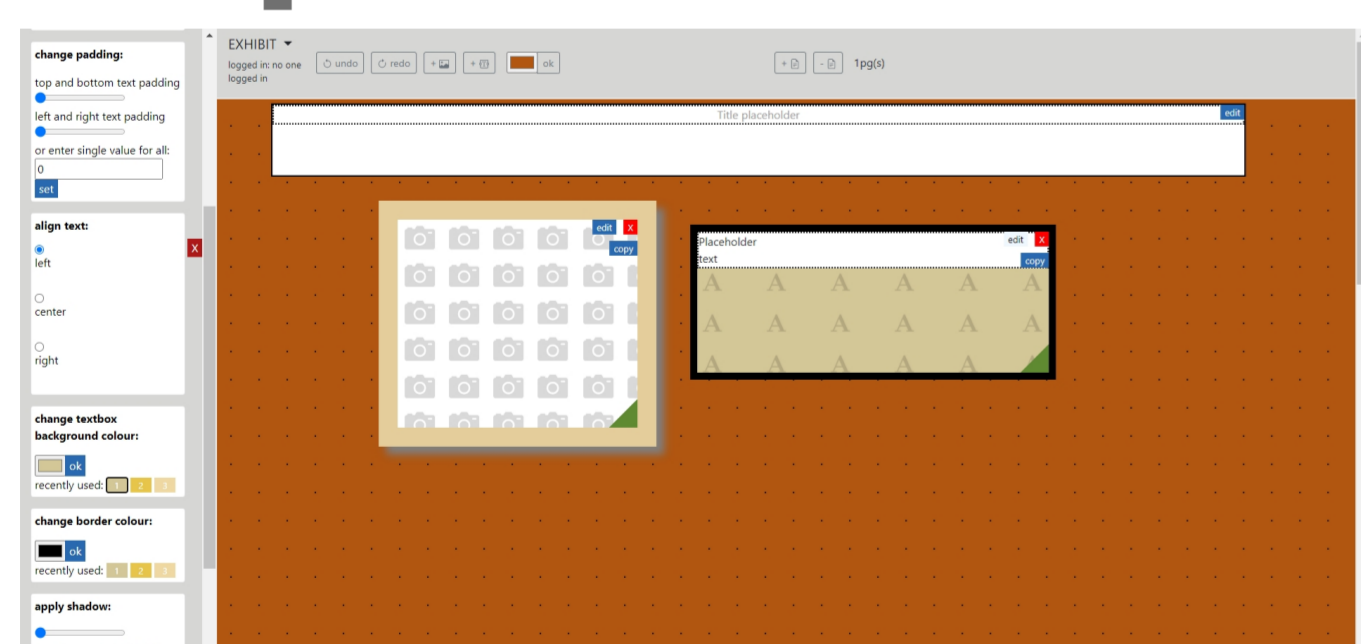
A group of 3 UCT students were acquainted with the project's background and asked to note any usability problems with our prototype, along with their severity. Using their feedback, we incorporated more error prevention and user assistance features.

Usability Study

A mixture of university students and cultural heritage experts were contacted for this study, totalling 12 participants. In addition to system-specific questions, the survey (conducted via Google Forms and follow up video-conferencing interviews) included the System Usability Scale (SUS) questionnaire. Our system received satisfactory overall SUS scores, with participants rating its ease of use and learnability particularly highly.

Outcomes

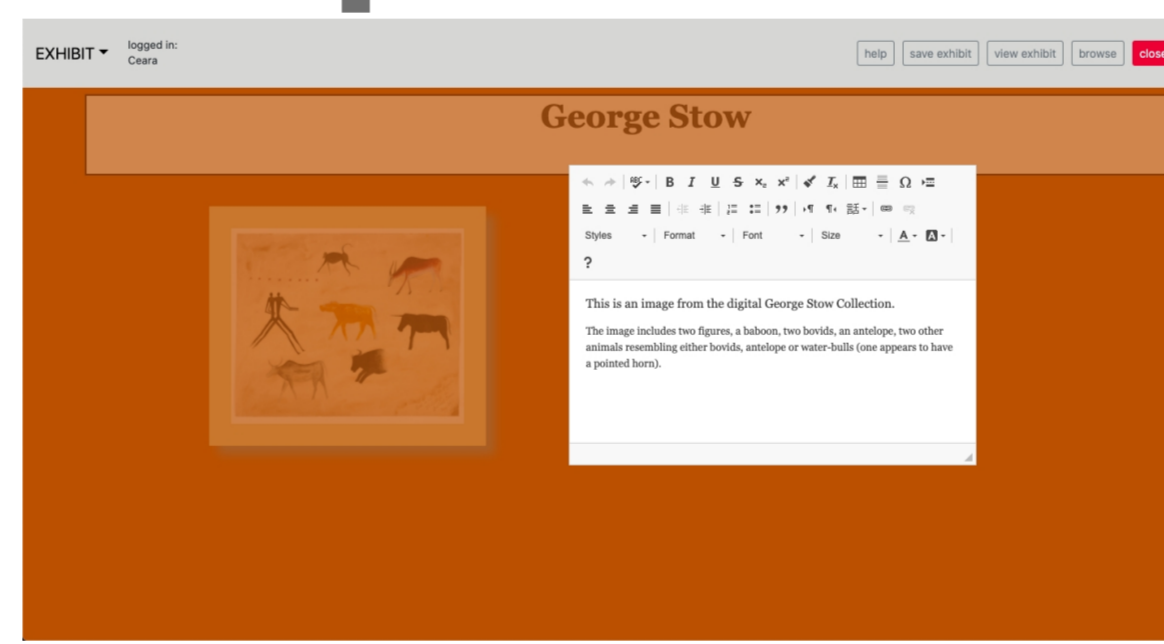
Template Creation



Main features:

- Template editing options for universal styles
- Element editing tools based on visualisation principles
- Direct manipulation for styling (e.g. drag and drop) as well as numerical input for those familiar with HTML
- Undo/redo functionality
- A simple user account system for collaboration, editing restrictions

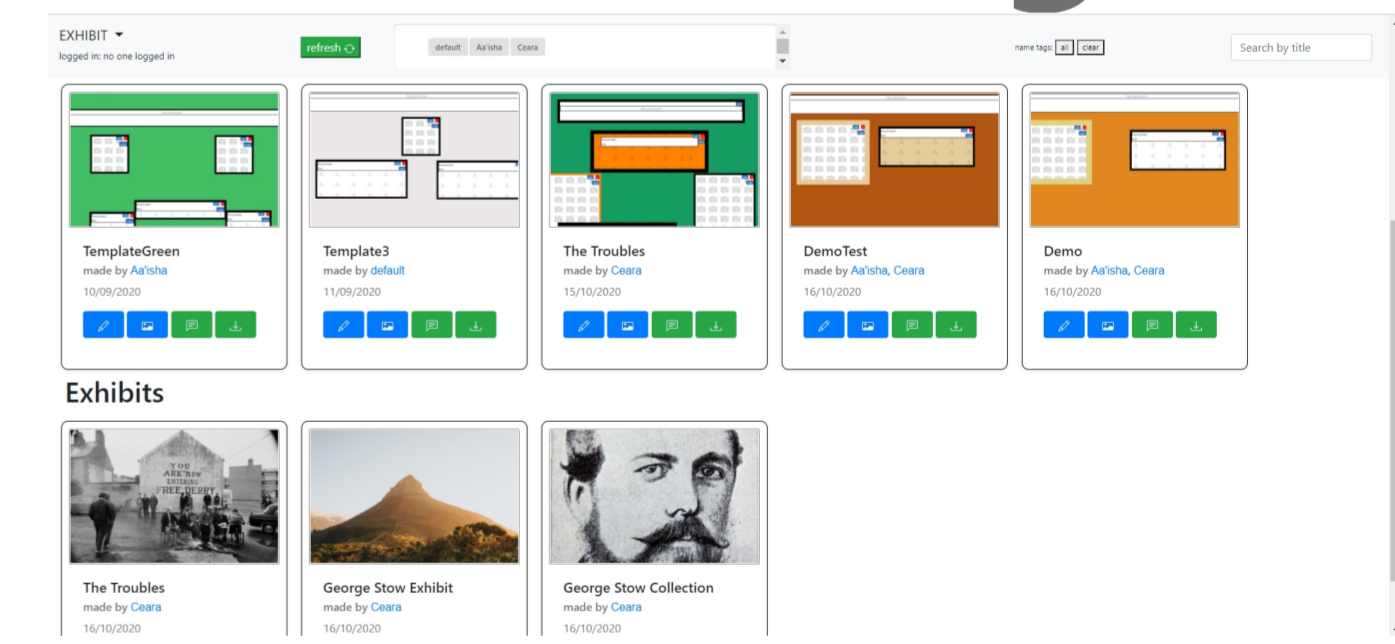
Population



Main features:

- Upload archival images into existing or created template
- Upload local images into existing or created template
- Style and link text with CKEditor
- Maintain a personal archive of images

Browse Page



Main features:

- Exhibits and templates displayed with cards
- Populate or edit templates from their cards
- View exhibits
- Commenting functionality
- Filtering by name tags and title search
- Download exhibits and templates as HTML and PDF files



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