

# AN INTERACTIVE VISUAL EDITOR FOR TEACHING WEB DESIGN

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VYSOKÉ UČENÍ FAKULTA  
TECHNICKÉ INFORMAČNÍCH  
V BRNĚ TECHNOLOGIÍ

## Objectives of the Work

- Visualize HTML elements in a tree structure.
- Integrate tree structure with HTML and CSS editor.
- Provide immediate visual feedback.
- Visualize parent-child relationships.

## Algorithm for Generating HTML Tags and Attributes

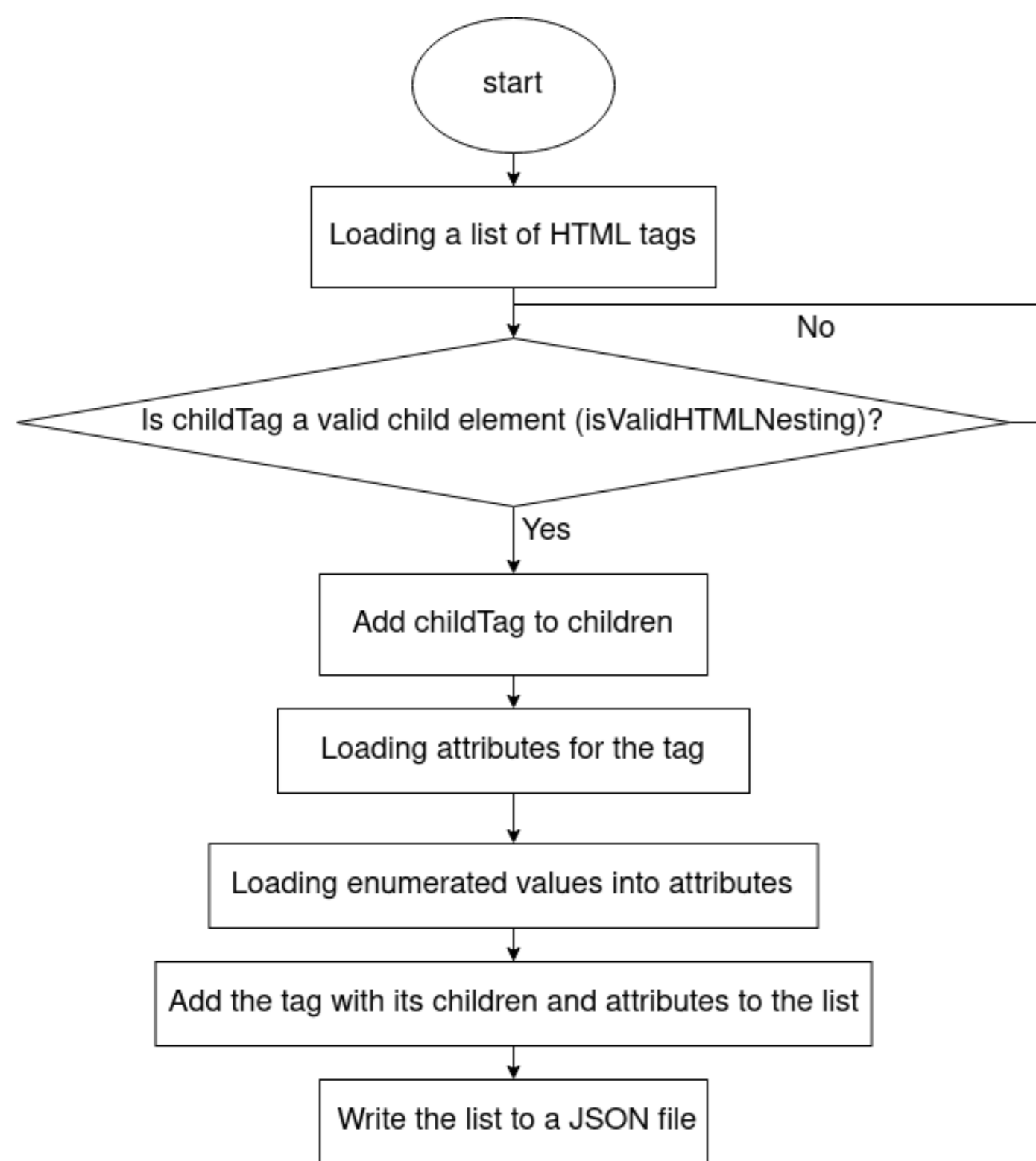


Figure 2

## Architecture

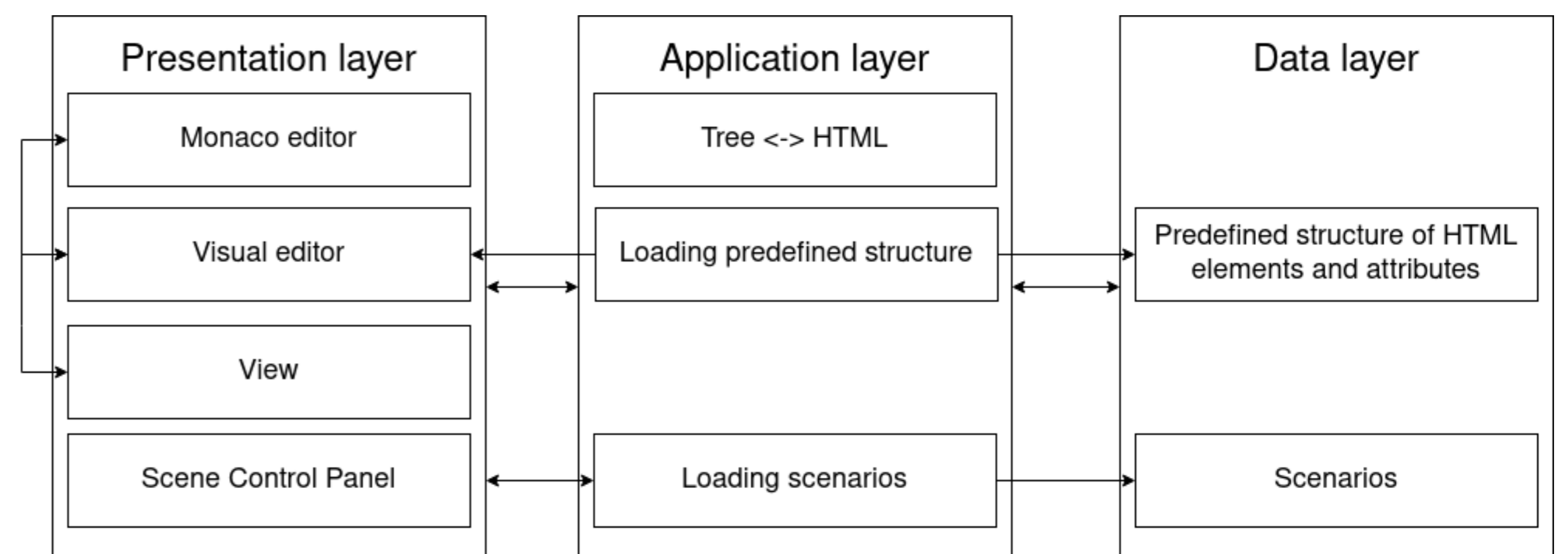


Figure 1

## Example: Predefined Structures of HTML Elements and Attributes

```
{
  "name": "table",
  "children": [
    "caption", "colgroup", "tbody", "tfoot", "thead"
  ],
  "attributes": [
    {"name": "align"},
    {"name": "bgcolor"},
    {"name": "border"},
    {"name": "cellpadding"},
    {"name": "cellspacing"},
    {"name": "frame"},
    {"name": "rules"},
  ]
}
```

## Editor Preview

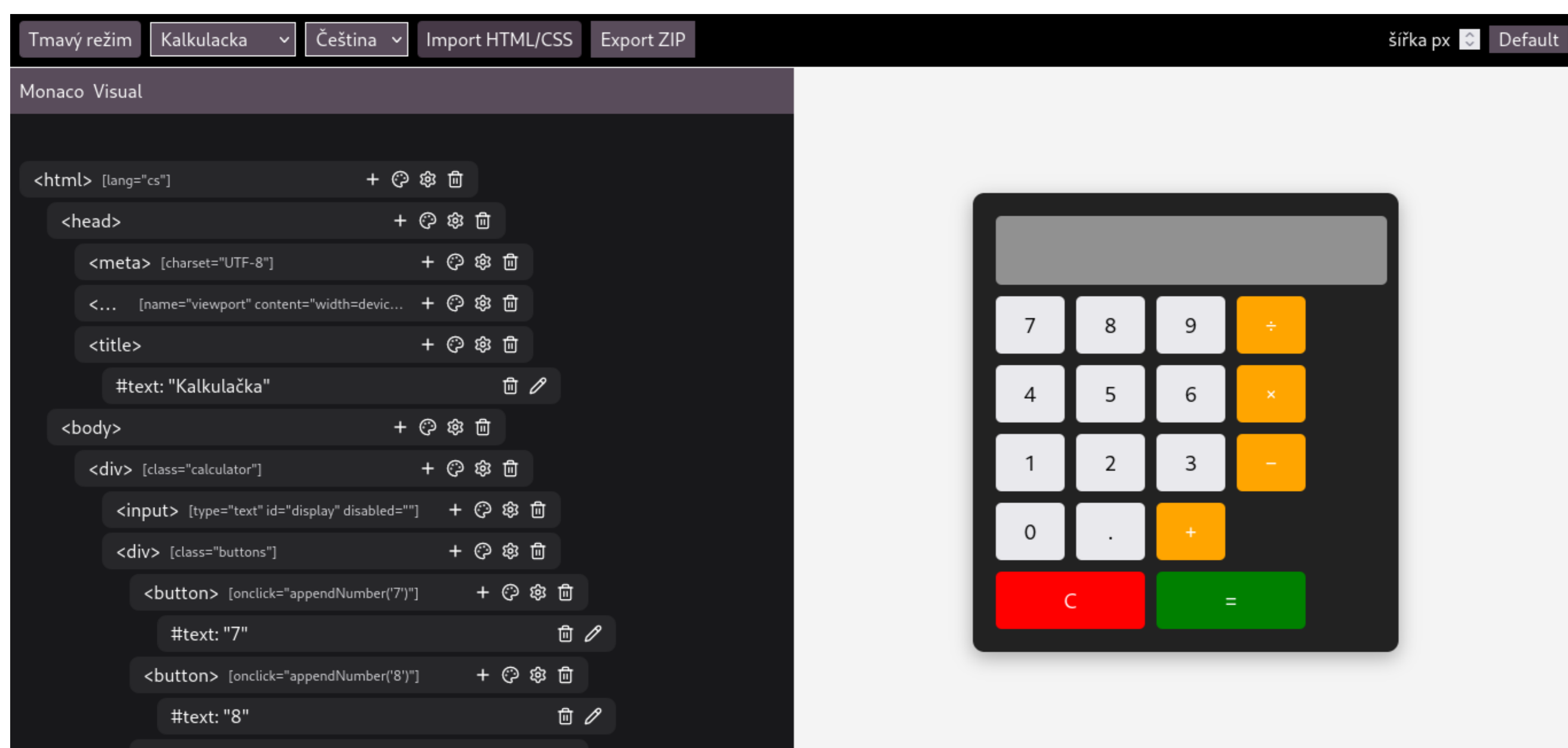


Figure 3

## Editor



## Questionnaire

