## Year 9/10 Digital Technologies

Website Design

Course Outline

# Learning Intentions

*To develop the following website design skills:*

1. **Website structure** (HyperText Markup Language)
2. **Visual style** (Cascading Style Sheets)
3. **User interactivity** (JavaScript)
4. **Data storage** (Server Query Language)
5. **Security and privacy** (user authentication)

## Relevant Achievement Standards from Australian Curriculum v9:

Acquire, interpret and model complex data with databases[4] and represent documents as content, structure[1] and presentation[2, 3]. Explain how digital systems manage, control and secure access to data; and model cyber security threats and explore a vulnerability. Apply privacy principles to manage digital footprints.[5]

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# Assessment Rubric

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | **WA** | **AE** | **E** | **BE** |
| **Website structure**  and  **Visual style** | *Grok* | “Beginners 2 HTML/CSS” completed | “Beginners 1 HTML/CSS” completed | “Express HTML/CSS” completed | “Express HTML/CSS” Module 1 completed |
| *Project* | Consistent and accessible visual style | Aesthetically pleasing and logical | Functional layout and sensible style | Various stylesheet rules used |
| **User interactivity** | *Grok* | “Webpages – Javascript” both projects completed | “Webpages – Javascript” all four modules completed | “Webpages – Javascript” Module 2 completed | “Webpages – Javascript” Module 1 completed |
| *Project* | Provides a dynamic and intuitive experience | Structure changes in real time based on user input | Content is modified by user actions | Some content is generated or modified after loading |
| **Data storage** | *Grok* | “Beginners Databases – SQL” completed | “Beginners Databases – SQL” Module 4 completed | “Beginners Databases – SQL” Module 2 completed | “Beginners Databases – SQL” Module 1 completed |
| *Project* | Data stored and/or retrieved depends on the user logged in | Data is stored and/or retrieved via SQL queries | Data is stored and/or retrieved via localStorage | Demonstrates situations where data storage could be used |
| **Security and privacy** | *Grok* | “Monitoring and Securing Networks” and “Web Application Security” completed | “Web Application Security” completed | “Web Application Security” Module 2 completed | “Web Application Security” Module 1 completed |
| *Project* | User passwords are secure and user information is private | Users can log in using a password | Demonstrates the experience a logged in user might have | Website does not share any personal information |

**Note:** Skills are not equally weighted, since needs may differ between personal projects. However, all five skills are expected to be developed to some extent.