

User Interface Designer

Exam 1D0-621



Domain 1: User Interface Design Projects

- 1.1 Describe how Web user interfaces have evolved as more devices access the Internet.
- 1.2 Explain current trends in user interface design, such as mobile devices and responsive design techniques.
- 1.3 Explain the responsibilities and tasks of Web design team members.
- 1.4 Describe the basic tasks of Web design project management, including project management phases, project documentation and communication.
- 1.5 Describe the advantages of Web design project collaboration.
- 1.6 List the benefits of creating a personal Web design project portfolio.
- 1.7 Start planning a fictitious Web-based business, including drafting a goals statement (types of customers, feel of work, mission statement) and creating a design team.

Domain 2: User Interface Design Process

- 2.1 List steps in a basic Web design project's development process, including bottom-up approach, Agile approach, vision, strategy, specifications, mindmapping, site map, wireframe.
- 2.2 Describe the Agile Web development approach, including streamlining project workflow, eliminating bottlenecks, focusing on value, facilitating changes in requirements.
- 2.3 Define a project vision for a Web site or mobile app interface.
- 2.4 Explain the user interface design process, from vision to strategy.
- 2.5 Define the specifications for designing a Web site.
- 2.6 Discuss considerations for site publishing, including FTP uploads, mobile apps, publishing tools.
- 2.7 Describe various choices and challenges of site hosting, including security, costs.
- 2.8 Describe the security maintenance required for Web sites.
- 2.9 List guidelines for ethical Web design, including comparing unethical vs. illegal.
- 2.10 Apply the mindmapping process to user interface design projects.
- 2.11 Determine metaphors for a user interface design.
- 2.12 Define the purpose of creating word lists and mood boards in relation to the Web design process. Create a word list for your Web site using the two-step process and mood board using the eight-step process.
- 2.13 Create a site map for a fictitious business.

Domain 3: User Centered Web Design

- 3.1 Explain the optimal relationship between Web users and site design, including customers vs. contributors, attracting and retaining users, needs-driven design, and scenario-based design.
- 3.2 Identify Participatory Design and its involvement with all stakeholders.
- 3.3 Explain Scenario-based design and when it is used.
- 3.4 Describe the importance of Cognitive Psychology in relation to Web Design.
- 3.5 Identify the terms "personas" and "usability" to understand your audience.
- 3.6 Explain use case and use case scenarios.
- 3.7 Describe the purpose and importance of site usability testing.
- 3.8 Given a scenario, determine how to improve site accessibility.
- 3.9 Explain how to improve site accessibility for mobile devices.

Domain 4: User Interface Design Principles

- 4.1 Apply user interface design principles to Web site design.
- 4.2 Describe CARP (contrast, alignment, repetition, proximity) and how it is important to UI design principles.
- 4.3 Describe ERBU (emphasis, rhythm, balance, unity) and how it is important to UI design principles.
- 4.4 Explain branding considerations in user interface design.
- 4.5 Given a scenario, describe and resolve legal issues in Web design.

Domain 5: Color, Typography, Layout, and Wireframing

- 5.1 Describe the importance of color usage in user interface design.
- 5.2 Consider font choices and challenges in user interface design.
- 5.3 Identify elements of effective Web page layout (e.g., content, navigation, space), and discuss variables that may apply to specific situations or site types. Given a scenario, determine an effective Web page layout.
- 5.4 Create a Web page wireframe for a fictitious business.
- 5.5 Explain page layout techniques when creating user interfaces for mobile devices.

Domain 6: Designing a Basic Web Page User Interface

- 6.1 Create a simple Web user interface using best practices.
- 6.2 Identify the basics of HTML, CSS and responsive design.

- 6.3 Apply a default page template to a Web site.
- 6.4 Apply a set of custom page templates to a Web site.
- 6.5 Use spelling and grammar tools to review site text.

Domain 7: Web Site Navigation Concepts

- 7.1 Explain why navigation is critical to interface design, including user-centered design concepts, and "mystery meat" navigation.
- 7.2 Identify best practices for Web site structure, URLs and file names. Create a site navigation system.
- 7.3 Describe familiar conventions used in site navigation, including breadcrumb trails, logos, menus, visited links, home page, naming conventions.
- 7.4 Compare primary and secondary navigation elements in a Web site.
- 7.5 Identify the benefits of guided site navigation.
- 7.6 Given a scenario, create a navigation hierarchy for a Web site.
- 7.7 Given a scenario, create a navigation action plan for a Web site.

Domain 8: Designing an Interactive Web Page User Interface

- 8.1 Identify why prototyping is so important.
- 8.2 Explain common patterns of user activity on interfaces, including breadcrumbs, progressive disclosure, and pattern libraries.
- 8.3 Optimize the "look and feel" for a site.
- 8.4 Identify the importance of forms for user input within a user interface using best practices.
- 8.5 Explain how a form in a Web page should be processed to a database.
- 8.6 Identify an appropriate framework for a Web site.
- 8.7 Describe how UI library elements are used to create a Web site.
- 8.8 Identify a content management system to create a Web site.
- 8.9 Identify templates and themes.
- 8.10 Compare various site publishing tools, including FTP, HTTP and vendor-specific tools.
- 8.11 Choose a Web host and domain name for your site.

Domain 9: User Interface Design and SEO Strategies

- 9.1 Test a user interface, including HTML5 validation, quality assurance, security, focus groups. Validate the site code.

9.2 Explain the tasks required to properly maintain a Web site.

9.3 Define search engine optimization (SEO), including the relationship between SEO and Internet marketing.

9.4 Explain the relationship between written Web site content and SEO.

9.5 Given a scenario, explain SEO strategies for mobile apps and data.

9.6 Describe how metadata is used in SEO, including the <meta> tag, document identification, search engines, delayed file change.