

# DACUM Research Chart for Web Site Developer

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# DACUM Research Chart for Web Site Developer

Duties		Tasks				
A	<b>Assess Client Web Site Needs</b>	A-1 Research client's business and related industry	A-2 Consult with client	A-3 Determine goal of client's web site	A-4 Determine client's hardware/software resources	A-5 Determine client's hardware/software needs
		B-1 Determine technological approach (e.g., OS, platform, software languages)		B-2 Determine Web project components	B-3 Estimate needed technical resources	B-4 Estimate human resources required
B	<b>Develop Web Site Project Plan</b>	B-12 Obtain web site domain name				
		C-1 Organize web site content	C-2 Design file directory structure	C-3 Create site map	C-4 Develop a navigation scheme	C-5 Define data processes to be performed (e.g., database)
C	<b>Develop Web Site Structure</b>	D-1 Develop web site color scheme	D-2 Decide web site typography	D-3 Design page layouts	D-4 Design site navigation graphics	D-5 Determine graphic needs
D	<b>Design Web Site Graphic User Interface</b>	E-1 Assemble existing site content	E-2 Create new site content	E-3 Prepare required databases(s)	E-4 Create home page	E-5 Develop script components
E	<b>Create Web Site</b>	F-1 Create test site environment	F-2 Develop site testing plan	F-3 Test site usability	F-4 Test site functionality	F-5 Test web site disaster and recovery procedures
F	<b>Test Web Site</b>	G-1 Arrange web site hosting	G-2 Upload web site files to server	G-3 Establish back-up procedures	G-4 Initialize database(s)	G-5 Perform tests in live environment
G	<b>Publish Web Site</b>	H-1 Evaluate site statistics	H-2 Perform site validations	H-3 Review current client needs	H-4 Update site content	H-5 Implement new technologies
H	<b>Maintain Web Site</b>	I-1 Assess educational/training needs	I-2 Participate in workshops/classes/retreats	I-3 Participate in professional organizations	I-4 Review trade publications	I-5 Review Internet trends
I	<b>Pursue Professional Development</b>					

A-6 Determine client's budget requirements/ allocations	A-7 Determine client's timeline	A-8 Determine client's support/ training needs	A-9 Determine feasibility of client's proposed web site	A-10 Review options with client	A-11 Obtain consensus with client on proposed web site	
B-5 Determine project timeline	B-6 Determine project milestones	B-7 Determine project acceptance criteria	B-8 Create project budget	B-9 Develop web site story-board/prototype/ model	B-10 Prepare project proposal/ bid	B-11 Negotiate project final agreement
C-6 Define non-HTML components (e.g., JavaScript, VBScript, SSI)		C-7 Determine external hyperlinks	C-8 Define site security requirements			
D-6 Create required graphics	D-7 Develop dynamic components (e.g., animation, image maps, rollovers)		D-8 Create page templates	D-9 Consider ADA issues	D-10 Obtain client approval of GUI	
E-6 Create sub pages	E-7 Integrate database(s) with web site	E-8 Validate code integrity	E-9 Implement ADA compliances	E-10 Proof web site page(s)		
F-6 Test site security	F-7 Resolve site issues	F-8 Obtain client approval				
G-6 Resolve site issues	G-7 Submit site to search engines	G-8 Develop training materials	G-9 Develop support documents	G-10 Provide orientation and training		
H-6 Test web site updates	H-7 Resolve new web site issues	H-8 Obtain client approval for updates	H-9 Maintain site licensing	H-10 Maintain web site disaster and recovery procedures	H-11 Update web site user training	H-12 Update web site support documentation
I-6 Explore new technologies	I-7 Network with colleagues	I-8 Obtain related certifications				

## General Knowledge and Skills

Communication	Network protocols
Organization	Basic photography
Problem solving	Server technology
HTML	Search engine optimization
Computer literate	Scanner skills
Scripting language	Internet
Graphic software	Programming skills
Troubleshooting	Interpersonal skills
Writing	Ability to relate technical ideas to non-technical people
Word processing	Web development software (e.g., Dreamweaver, FrontPage, GoLive, Visual Internet)
Image editing	Vector software
Graphic design basics	Web animation
Database skills	Streaming media
Budgeting skills	Workstation proficiency
Project management	
FTP/Publishing	
Time management	
Research skills	
Web security	

## Tools, Equipment, Supplies and Materials

Computer system	E-mail client
Supporting workstation (e.g., PC, MAC, UNIX)	Project management software
Web development software	Database software
FTP client	Compiler and runtime software
Office productivity software	Application language programs
Internet connection (e.g., DSL, Cable, T-1)	Development environment software
Web server	Search engine software
Graphic software	3-D software
Analysis tools	Animation software
Computer peripherals (e.g., scanner, digital camera, CD burner)	Video editing software
Fax machine	Authoring software

## Future Trends and Concerns

Wireless technology	Convergence of Web and automobiles
Growing Web complexity	Virtual reality
Application server technology	Privacy issues
Security threats	Transition from free to fee
Convergence of Web and home	Skill obsolescence
Convergence of Web and communication	Regulatory environment
	Digital holography

## Worker Behaviors

Work independently	Creative
Disciplined	Dependable
Personable	Flexible
Curious	Intelligent
Good hygiene	Analytical
Able to take orders	Quick learner
Willing to accept criticism	Concise
Open minded	Sense of humor
Intuitive	Logical
Efficient	Persistent
Conscientious	Able to meet deadlines
Confident	Team player
Able to handle stress	User friendly

## Acronyms

HTML	Hypertext Markup Language	XHTML	Extensible Hypertext Markup Language
VBScript	Visual Basic Script		
TCP/IP	Transmission Control Protocol/Internet Protocol	CGI	Common Gateway Interface
		Perl	Practical Extraction and Reporting Language
ASP	Active Server Pages	W3C	World Wide Web Consortium
JSP	Java Server Pages	IIS	Internet Information Server
FTP	File Transfer Protocol	ISP	Internet Service Provider
HTTP	Hypertext Transfer Protocol	PC	Personal Computer
ADA	Americans with Disabilities Act	MAC	MacIntosh Computer
URL	Uniform Resource Locator	ROM	Read Only Memory
LAN	Local Area Network	MODEM	Modulator/Demodulator
WAN	Wide Area Network		
DB	Database	SQL	Structured Query Language
FAQ	Frequently Asked Questions	ODBC	Open Database Connection
SSL	Secure Socket Layer	RGB	Red Green Blue
DSL	Digital Subscriber Line	CMYK	Cyan Magenta Yellow Black
IE	Internet Explorer	OS	Operating System
WWW	World Wide Web	DLL	Dynamic Link Library
NNTP	Network News Transfer Protocol	DNS	Domain Name Server
SMTP	Simple Mail Transfer Protocol	GUI	Graphical User Interface
RAM	Random Access Memory	XML	Extensible Markup Language
MS	Microsoft		
CSS	Cascading Style Sheets		