



## De La Salle University College of Computer Studies

## **Secure Web Development Machine Project Checklist**

Members: Section:	Date: Grade:			
	Requirement	Complete (2)	Incomplete (1)	Missing (0)
1.0 Pre-demo Req	uirements (must be created before the actual demo)			
1.1. Accounts	(at least 1 per type of user)			
1.1.1. Webs	site Administrator			
1.1.2. Role	A (example: Product Manager)			
1.1.3. Role	B (example: Customer)			
2.0 Demo Require	ments			
2.1. Authentic	cation			
2.1.1. Requ publi	ire authentication for all pages and resources, except those specifically intended to be c			
2.1.2. Only	cryptographically strong one-way salted hashes of passwords are stored			
	entication failure responses should not indicate which part of the authentication data			
	ncorrect. For example, instead of "Invalid username" or "Invalid password", just use lid username and/or password" for both			
	rce password complexity requirements established by policy or regulation			
	rce password length requirements established by policy or regulation			
	word entry should be obscured on the user's screen (use of dots or asterisks on the			
displa	· · · · · · · · · · · · · · · · · · ·			
atter disco	rce account disabling after an established number of invalid login attempts (e.g., five upts is common). The account must be disabled for a period of time sufficient to urage brute force guessing of credentials, but not so long as to allow for a denial-of-ce attack to be performed			
2.1.8. Passv	word reset questions should support sufficiently random answers. (e.g., "favorite book" is I question because "The Bible" is a very common answer)			
2.1.9. Preve	ent password re-use to be checked against the user's history of passwords words should be at least one day old before they can be changed, to prevent attacks on			
passv	word re-use			
	ast use (successful or unsuccessful) of a user account should be reported to the user at next successful login			
2.1.12.Re-au	uthenticate users prior to performing critical operations such as password change			
2.2. Authoriza	ation/Access Control			
2.2.1. Use a	single site-wide component to check access authorization			
2.2.2. Acces	ss controls should fail securely with error messages			
2.2.3. Enfor	rce application logic flows to comply with business rules using role-based access control			
2.3. Data Vali	dation			
2.3.1. All va	alidation failures should result in input rejection. Sanitizing should not be used.			
2.3.2. Valid	ate data range for numeric input OR set of allowed characters for other types of input			

Secure Web Development Case Project Checklist

Requirement	Complete (2)	Incomplete (1)	Missing (0)
2.3.3. Validate data length on text field/text boxes			
2.4. Error Handling and Logging			
2.4.1. Use error handlers that do not display debugging or stack trace information			
2.4.2. Implement generic error messages and use custom error pages			
2.4.3. Restrict access to logs to only website administrators			
2.4.4. Log all input validation failures (example: out of range, incorrect character/s)			
2.4.5. Log all authentication attempts, both successful and failed, including lockout			
2.4.6. Log all access control failures			
TOTAL			