Area	Subdivision	Item	Criteria
Programming	Basic coding	Code	*Consistent naming and layout*
			Judicious use of comments, especially for failure paths
			Reasonable function and module length
			No duplicated code
			Idiomatic use of language, including avoidance of bad parts
			Appropriate and skillful use of advanced language features
			Appropriate use of known algorithms and data structures
			Appropriate use of libraries
			Citations for borrowed code and ideas
	Modularity	Code	*Code sensibly divided into modules and files*
			Namespace, structured and coherent
			Separation of concerns (especially presentation/content)
			Clean and simple module interfaces
			Data types immutable when possible
			Abstract data types used when appropriate
			Abstraction barriers not violated
			Inter-module dependences controlled
			Design decisions localized as much as possible
		Specifications	*Succinct but informative specifications for public interfaces*
			Preconditions given, especially on session state
	Verification	Runtime assertions	*Runtime assertions to check non-trivial expectations*
			Representation invariants for abstract types
			Schema invariants declared, maintained (& checked if appropriate)
		Unit tests of public interfaces	*Repeatable suite of tests for key methods of service interfaces*
	Security	Code	*Appropriate use of security mitigations (eg, sanitization)*
			Access control mechanisms implemented, as relevant
			Safe defaults used
Design	Overview	Purpose and goals	*Brief description of system to be built*
			Key goals and purpose
			Motivation for development (eg, deficiencies of existing solutions)
		Context diagram	*Establishes boundary of system*
			Interactions between system and external entities
	Concepts	Key concepts	*Brief explanation of key enabling concepts*
		Object model	*Object model describing main state components*
			Implementation details excluded
			Small details that don't impact behavior omitted or abstracted
			Syntactically valid diagram with consistent naming & layout
			Generalization used appropriately
			Names of sets and relations well chosen
			Definitions in accompanying text of non-obvious elements
	Behavior	Feature descriptions	*Succinct but precise descriptions of each feature*
		Security concerns	*Summary of key security requirements and how addressed*
			How standard attacks are mitigated
			Threat model: assumptions about attackers
		User interface	*Wireframes for application*
			Flow between pages indicated, with named actions
			Errors accounted for
	Challenges	Design challenges	*List of problems to resolve in concepts, behaviors or implementation*
			For each problem: options available, evaluation, which chosen
			Note on code design: schema design choices, abstractions
	Evaluation	Critique	*Summary assessment from user's perspective*
			Summary assessment from developer's perspective
			Most and least successful decisions
			Priorities for improvement
		Reflection	*Most and least successful aspects of project*
			What I learned from it and can improve on next time
Team Work	Plan	Stakeholders	*List of stakeholders and their roles*
		Resources	*List of computational, cost and time constraints*
		Tasks	*List of tasks, expected effort, allocation to team members*
			Calendar of intermediate and final milestones for tasks
		Risks	*Enumeration of expected risks and their mitigations*
		Minimum viable product	*Identification of minimum viable product for first release*
			Subset of features to be included
			Issues postponed (eg, security mitigations, user interface elements)
			Provides real value to users
			Provides opportunity for feedback
			On path to full product
	Team contract	Team contract	*Expected level of achievement and effort for each team member*
			Personal goals for each team member
			Frequency, length and location of team meetings
			How quality of work will be maintained
			How tasks will be assigned, and what to do if deadlines are missed
			How decisions will be made and disagreements resolved
	Meetings	Agenda	*One agenda for each meeting*
			Agenda prepared in advance of meeting
		Progress report	*One report for each meeting, prepared in advance*
			Summarizes progress since previous meeting
			Identifies achieved and missed milestones
			Identifies difficulties encountered
			Identifies changes found in problem or constraints
		Meeting minutes	*Summary of discussions and advice from mentor*
			Summary of new decisions
			Changes to plan or milestones
	Reflection	Peer review	*Constructive but candid evaluations of team mate performance*
		Evaluation	*Evaluation of project from team planning perspective*
		Lessons learned	*Summary of key lessons learned*