

Team Witty

# ECE473-573--Spring 2014 Design Report Rubric

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Criterion	Maximum Points	Exemplary	Proficient	Marginal	Unacceptable
<b>Front matter</b>					
1: Cover page		1: Present, names all group members and their emails; course coordinates (course name, number, term, year); provides short name for the team or project (1 points)	Present; has most details (0.75 points)	Present; missing major details, or improperly formatted (0.25 points)	Missing or otherwise unreadable (0 points)
2: Executive Summary		3: Present; describes project on the high level; summarizes project goals, methods, and creativity (3 points)	Present; has minor inconsistencies with the report body; reader still understands project well (2 points)	Present; has major inconsistencies with the report body; reader may have initial doubts to project topic or goals (1 points)	Missing, or so inconsistent that directly conflicts with report body; reader may be unexcited to continue (0 points)
3: Table of contents		1: Present; accurately maps sections and subsections of the report (1 points)	Present; has most details (0.75 points)	Present; missing major details, or improperly formatted (0.25 points)	Missing or otherwise unreadable (0 points)
4: Table of figures		0.5: Present; accurately maps figures of the report (0.5 points)	n/a	Present; missing major details, or improperly formatted (0.25 points)	Missing or otherwise unreadable (0 points)
5: Table of tables		0.5: Present; accurately maps tables in the report, even if none exist (0.5 points)	n/a	Present; missing major details, or improperly formatted (0.25 points)	Missing or otherwise unreadable (0 points)
6: Project Overview		5: Present, explains why this project is an interesting application; scopes the project appropriately; provides a problem statement, which guides your analysis, design, and implementation (5 points)	Present; explains the project fairly well; lacks good scoping; may have ambiguous problem statement, or may not clearly state impact (3 points)	Present; lacks coherence with course objectives; does not provide problem statement, or statement is badly worded; section raises questions of the appropriateness of the project for this course (1 points)	Missing or poorly understood by writer or reader; section indicates that the project is inappropriate for the course (0 points)
<b>Analysis and Models</b>					
7: Requirements		15: Requirements are clearly stated unambiguously, and directly relate to the project goals. Requirements are properly divided into A/B categories, and dependencies are explicitly mentioned; requirements detail a project that is of appropriate difficulty (15 points)	Requirements may be listed, but some minor requirements are missing or overlooked; divisions are present, but dependencies may be missing (10 points).	Requirements listed, but major requirements may be missing; may be stated vaguely; A/B categories may not be present, or may be difficult to distinguish. Or, A/B categories seem difficult to validate. (5 points)	Missing or only paid cursory notice; requirements detail a project that is inappropriate for the course (0-1 points)
8: Application Analysis		10: The user interface, as well as the use cases for the UI, are presented. Prototypes/screen shots show how the UI will look. State models are given to explain how the UI will react to human input. (10 points)	Portions of application analysis may be missing. Although some models or pictures are given, it is not clear how they relate to the application's design (5 points)	Both models and prototypes are missing; models are not state models; there is little thought given to the application and how users will interact. (3 points)	Missing or only paid cursory notice; analysis is such that the project is inappropriate for the course (0 points)

9: Domain Analysis	10: Interactions of behind-the-scenes portions of the design are clearly presented. The important algorithms in use are clearly tied to the application, and interaction models are appropriately used to describe the complexity of the domain implementation (10 points)	Some portions of the domain analysis are missing. No explicit ties to the application exist, thus it is unclear how the logic of the app will work. (8 points)	No interaction models are given, and missing significant context for this section. (4 points)	Some external component missing; interfaces do not apply, or are incorrect; analysis is such that the project is inappropriate for the course (0-2 points)
10: Important Algorithms	5: Algorithms important to the function of the project are clearly introduced, or cited (5 points)	Some algorithms are omitted; algorithms are not discussed in detail (3 points)	Algorithms are present, but may be wrong (1 points)	Missing, or flagrantly wrong; section indicates that the project is inappropriate for the course (0 points)
<b>Design and Test</b>				
11: Class Design	15: Class diagram of classes that implement the design are provided, and explicitly tied to analysis models. Exception criteria and assumptions are provided (15 points)	Some classes are missing, or diagram uses faulty modeling concepts. Interfaces between interacting classes may not be well defined. (10 points)	Class diagram does not support multi-developer interaction, or presents a high risk to completing the project in stages. No ties between the analysis and design portions. (5 points)	Missing or paid only cursory notice (0-5 points)
12: Testing strategy	5: Testing strategy for each requirement is given. Pieces of the design which must be created first (in order to test) are mentioned. (5 points)	Testing strategy has minor errors, including potential flaws in how the class design supports testing. (3 points)	Testing strategy not clearly thought out. (1 point)	Missing or only paid cursory notice (0 points)
13: Integration with Platform	5: Interfaces with platform, such as sensors, cameras, etc., are well described. Relationships are explicitly pointed out, and a plan exists to integrate them with the implementation. (5 points)	Platform hardware is mentioned, but there is no explicit tie as to where each sensor is used in the design. (3 points)	Platform integration does not contribute to the functionality of the application. (1 point)	Missing or only paid cursory notice (0-1 points)
<b>Implementation Plan</b>				
14: Task allocation and breakdown	5: Implementation portions are mapped directly from internal component diagram and testing strategy to project members. Each requirement is assigned a project member. (5 points)	Implementation is broadly specified with reference to the class diagram, but may lack direct correlation to the design. Some requirements may have no member assigned. (3 points)	Implementation is broadly specified, but no mention is made of personnel and their relation to particular classes. There may be students who are not contributing to the project in a technical way, but only in administrative tasks. (1 points)	Missing or only paid cursory notice (0 points)
15: Timeline for completion	5: Timeline is given, and maps directly to task allocation. Beta/Final releases have appropriate requirements met. Project deadlines give sufficient "buffer" to hard course deadlines for unexpected effort; all course deadlines (as described in the homework companion) and deliverables are mentioned (5 points)	Timeline is given, and maps directly to task allocations. Project deadlines may not be reasonable, or may not provide "buffers" for unexpected effort; some course deadlines may not be present. It is not easy to trace requirements validation to the timeline. (3 points)	Timeline not given, or not expressly specified in terms of project deadlines; course deadlines missing completely (1 points)	Missing or only paid cursory notice (0 points)



16: Global/shared tasks and experience	3: Tasks are properly given to group members. Members who are given specific tasks based on relevant experience are justified. All team members are contributing software. (3 points)	Tasks which are shared are not explicitly mentioned. No reasoning is given as to the breakdown of which student is performing which task (2 points)	Tasks which are shared are completely ignored, or not present in the timeline. There may be students who only perform tasks that should be shared, instead of technical work. (1 points)	Missing or only paid cursory notice (0 points)
<b>Cross-cutting Concerns</b>				
17: Grammar	3: No typographical or grammatical errors. Writers properly use abbreviations (e.g., i.e.) and do not make common "there/their" "its/it's" mistakes (3 points)	1-3 typographical or grammatical errors (2 points)	4-7 typographical or grammatical errors (1 points)	8 or more typographical or grammatical errors (0 points)
18: Presentation	4: Report is clearly organized in a way that facilitates ease of reading and review. Fonts are appropriately sized, and figures are properly sized. Page style is consistent, and headings are appropriately nested. The document is self-contained, and the group information is available without opening the cover (4 points)	Report presents the necessary data, but may have minor formatting issues, including sizing problems. Additional effort may be required to see the group's project or team name (e.g., opening the cover) (3 points)	Report presents necessary information, but formatting issues affect understanding of key elements (e.g., figures may be unreadable). Bad bookmarks may exist (e.g., <b>Error! Bookmark not found!</b> ) (1 points)	Report presents necessary information, but formatting problems make review of the report difficult by the reader. (0 points)
19: Colors	1: Report properly considers the impact of color/b&w printers for future prints of the electronic version (1 points)	Report provides color figures which in B&W print are legible, but more confusing than in color (0.75 points)	Report provides color figures which may be referred to by color, though B&W printers will be used in later printing of the electronic document (0.25 points)	Report does not consider properly impact of color, and figures may be illegible or completely misunderstood (0 points)
20: Figures and Tables	3: Figures and tables are numbered and consistently labeled, with appropriate captions (3 points)	Figures and tables are all captioned, though there may be small problems with formatting or numbering (2 points)	Figures and tables are present, but not numbered properly, or duplicate numbers exist (1 points)	Bad captions, or lack of captions and/or numbers (0 points)
<b>Total</b>	<b>100</b>			