Southern New Hampshire University

IT 633 Final Project Part II Guidelines and Rubric

Overview

Part II of the final project for this course is the creation of a **Design Defense** based on work completed in Final Project Part I.

In the fast-paced environment of mobile technology, companies today place a premium on professionals whose IT expertise is adaptable to real business needs. Identifying development requirements based on these needs is a translation process valued by managers and developers as a key skill. Involved in this process is the ability to select appropriate frameworks and approaches, as well as designing human-computer interfaces based on requirements and the target audience. Finally, with all development projects, the consummate IT professional will ensure ethical and professional considerations are exhibited throughout the process.

For this assessment, you will defend the design choices you made in Part I of the final project, explaining the aspects of your design. You will submit your application and design defense separately; the combination will allow your instructor to gauge the knowledge, skills, and abilities you have gained from this course.

You will work on elements of the final project using final project journals. The journals will help you work on and practice the critical elements of the final project. In addition, the journals will allow you to gain instructor feedback and post any concerns or questions.

The final submission will be submitted in Module Nine.

In this assignment you will demonstrate your mastery of the following course outcomes:

- Justify the selection of mobile application frameworks for specific projects based on given sets of parameters
- Defend appropriate approaches to mobile application development based on analysis of the key characteristics of mobile operating systems
- Address common challenges in mobile application development through application of ethical and professional programming practices

Prompt

Your design defense should answer the following prompt: Detail the technologies, frameworks, interfaces, and any other information necessary to develop an application that meets the business and design requirements in the scenario.

Specifically, the following **critical elements** must be addressed:

I.   Function and Requirements
      A. **Application Functionality**: Explain the functions and purpose of the application design.
      B. **Application Fidelity**: How does your application address the business requirements?

C. **Design Decisions**: Explain the design decisions you made to address the target audience.
D. **Interface Requirements**: Detail the aspects of the interface design that incorporate the business needs and explain how these features will be beneficial to the business. Explain how the interface incorporates all aspects of the business needs.

II. Mobile Application Framework
   A. **Framework Selection**: Explain the framework you used for your design to meet the scenario and business parameters. What specific parameters of this project make use of this framework appropriate?
   B. **Framework Evidence**: Discuss the evidence of prior uses or successful application of this framework to other, similar projects.
   C. **Framework Alterations:** What adjustments did you have to make to the framework? Justify any alterations you made to the framework in terms of the parameters that dictated your development.

III. Mobile Application Approach
   A. **OS Comparison**: Compare the major mobile operating systems to the operating system that you used (Android) and discuss the key features that dictated your design approach.
   B. **Approach**: Justify the approach that you took in development based on design and business parameters and your specific application.
   C. **Approach Defense**: Defend your approach decisions in terms of applicability and appropriateness for the Android operating system.
   D. **Industry Ethics**: How did you ensure the mobile application addresses any ethical issues relevant to the business, industry or application function? In other words, how did you ensure your application addressed common challenges in development in compliance with the ethical considerations of the industry?

Final Project Part II Rubric

Guidelines for Submission: Submit your completed Design Defense that incorporates instructor feedback from Milestones One, Two, and Three and throughout the course. Your submission should be in the form of a word processing document (.doc, .docx, .pdf, .pages). Your document should be 12–18 double-spaced pages, not including the cover sheet or reference pages. Your design defense will likely consist of three sections (Function and Requirements, Mobile Application Framework, and Mobile Application Approach). Each section must be submitted as a 4–6-page Microsoft Word document with double spacing, 12-point Times New Roman font, and one-inch margins, and must reflect at least two sources, cited in APA format.

Critical Elements	Exemplary (100%)	Proficient (90%)	Needs Improvement (70%)	Not Evident (0%)	Value
Function and Requirements: Application Functionality	Meets "Proficient" criteria and expertly and concisely explains the key details	Accurately explains the function and purpose of the application	Explains the function and purpose of the application, but with gaps in accuracy	Does not explain the function and purpose of the application	8.5
Function and Requirements: Application Fidelity	Meets "Proficient" criteria and evidences keen insight into designing toward business needs	Accurately explains the application's appropriateness for addressing the business requirements	Explains the application's appropriateness for addressing the business requirements, but with gaps in accuracy or logic	Does not explain the application's appropriateness for addressing the business requirements	8.5
Function and Requirements: Design Decisions	Meets "Proficient" criteria and shows nuanced understanding of best practices in design to ensure audience-appropriate applications	Clearly and logically explains the design decisions made to address the target audience	Explains the design decisions made to address the target audience, but with gaps in logic or clarity	Does not explain the design decisions made to address the target audience	8.75
Function and Requirements: Interface Requirements	Meets "Proficient" criteria and the interface reflects an inventive or intuitive design approach for the business	Justifies how the interface design addresses all relevant aspects of the business requirements with detail regarding benefit to the business	Justifies how the interface design addresses aspects of the business requirements, but with gaps in detail regarding benefit to the business or gaps in relevance	Does not justify how the interface design addresses aspects of the business requirements	9
Application Framework: Framework Selection	Meets "Proficient" criteria and shows intuitive grasp, applying appropriate frameworks to identified parameters	Selects and explains the framework used for design to meet the scenario and business parameters	Selects and explains the framework used for design, but with gaps in accuracy or detail regarding the scenario and business parameters	Does not select and explain the framework used for design	8.5
Application Framework: Framework Evidence	Meets "Proficient" criteria and justification is highly relevant, exceptionally supported, or well qualified	Justifies the framework use with supporting evidence from prior or external uses in application development found during research	Justifies the framework use with evidence from prior or external uses in application development found during research, but with gaps in support, relevance, or applicability	Does not justify the framework use with evidence from prior or external uses in application development found during research	8.5

Application Framework: Framework Alterations	Meets "Proficient" criteria and shows keen insight into altering frameworks to best fit development needs	Justifies alterations made to the framework to better fit the parameters of the application	Justifies alterations made to the framework to better fit the parameters, but with gaps in accuracy or detail	Does not justify the alterations made to the framework to better fit the parameters	8.5
Application Approach: OS Comparison	Meets "Proficient" criteria and shows keen insight into connecting key characteristics to necessary design choices	Accurately compares the differing operating systems to identify key characteristics of Android that dictated design	Compares the differing operating systems to identify key characteristics of Android that dictated design, but with gaps in accuracy or specificity	Does not compare the differing operating systems to identify key characteristics of Android that dictated design	8.5
Application Approach: Approach	Meets "Proficient" criteria and evidences keen insight into appropriate development approaches	Justifies selected approach to development based on design and business parameters	Justifies approach taken in development, but with gaps in detail or lack of basis on design and business parameters	Does not justify the approach taken in development	8.5
Application Approach: Approach Defense	Meets "Proficient" criteria and demonstrates intuitive insight into development best practices	Defends the approach and decisions made in terms of the applicability and appropriateness for the Android operating system	Defends the approach and decisions made, but not in terms of the applicability and appropriateness for the Android operating system or with gaps in logic or detail	Does not defend the approach and decisions made	8.75
Application Approach: Industry Ethics	Meets "Proficient" criteria and evidences nuanced understanding of the ethical considerations and practices in design and development	Details the methods for ensuring challenges in development were addressed in compliance with ethical standards	Details the methods for ensuring challenges in development were addressed in compliance with ethical standards, but with gaps in logic, or methods would not lead to ethical compliance	Does not detail the methods for ensuring challenges in development were addressed in compliance with ethical standards	9
Articulation of Response	Submission is free of errors related to citations, grammar, spelling, syntax, and organization and is presented in a professional and easy-to-read format	Submission has no major errors related to citations, grammar, spelling, syntax, or organization	Submission has major errors related to citations, grammar, spelling, syntax, or organization that negatively impact readability and articulation of main ideas	Submission has critical errors related to citations, grammar, spelling, syntax, or organization that prevent understanding of ideas	5
				Total	**100%**