

Capstone Project - Juried Response



TEAM / Student Names: _____

NOTE: Score can be in between two columns.

Elements	Score	5 Points	3 Points	1 Point
Problem Statement		The problem statement succinctly describes a need in the community.	The problem statement describes a need in the community, but is unclear, or lengthy and rambling.	There is little or no evidence that a problem statement has been included.
Problem Justification		The project identifies multiple justifications demonstrating research into this need, who is the population that is affected, and why this problem has the potential to be addressed with an app. The viewer understands why the project was undertaken.	The project identifies some justifications, but may be unclear on the population affected or how an app can help. The viewer questions whether the project is valid.	The project does not accurately identify a problem justification. The viewer questions whether the project is valid.
Agile Development Process		Evidence is clearly presented of how the developer utilized test-driven development or agile development process in terms of schedule / planning, frequent communication with the client, multiple iterations of software releases each with new features, etc.	Some evidence of agile development is presented. Communication with client seems lacking. Multiple software releases with sufficient new features are not evident. Testing seems minimal.	There is little to no evidence of a testing plan, software releases, or adequate client communication.
Object-Oriented Programming		Complexity of the app is suitable for a project of this scope (fourth computer science course for most students). Students have taken advantage of object-oriented programming in Java to design multiple classes that are interconnected, process data in a meaningful way, and suit the designated purpose. UML Diagrams are shown as documentation of their work.	App is less complex than would be expected given the amount of time and prior knowledge of students graduating from a computer science pathway. Few classes other than Android activities are used, with minimal connections. UML Diagrams are lacking detail.	App is too simple and does not make use of object-oriented programming. Diagrams are not evident.

Data Storage and Retrieval		Evidence is clearly presented of how the app uses data storage and retrieval, using SharedPreferences, file storage, SQLite Database, and/or Firebase Cloud Database. Justification is presented as to why that method of data storage was chosen.	Some evidence is presented of data storage and/or retrieval by the app. It is unclear if the method chosen is appropriate to the task.	App does not store nor retrieve data.
Android App		The prototype is clearly based upon the group's research and satisfactorily addresses the problem identified. Plans are complete and technically specific. Programming is technically competent and utilizes Android mobile features.	The prototype is loosely based upon the group's research. The plan contains one or two major specification requirements that are poorly addressed in the final app.	There is little to no evidence that a prototype has been designed to satisfy the problem statement.
Students' Depth of Knowledge		Students were able to answer the panel's questions on a range of technical topics related to their problem's solution, demonstrating exceptional content knowledge.	Students were able to answer some questions related to their proposed solution.	There is little to no evidence that work was conducted or that students' content knowledge was enhanced.
Presentation Skills		The presentation indicates detailed preparation. Excellent delivery including the use of voice, posture, eye contact, gestures, pacing, and use of pictures, graphs, computer models, etc. The presentation is interesting and vivid.	The presentation indicates some preparation. Adequate delivery including marginal use of voice, posture, eye contact, gestures, pacing, and marginal use of pictures, graphs, computer models, etc.	The presentation indicates that little to no preparation and practice were conducted prior to the formal presentation.