Criteria E - Evaluation

Success Criteria	Evaluation	Description
Users will be able to access flashcards specific to IB Physics SL topics.	Met	Every IB Physics SL topic screen connects to a flashcards screen with flashcards relevant to that topic.
Users will be able to access good resources for studying each topic.	Met	There is a “Key Ideas” button, which leads to relevant review info on ibphysics.org, there is a resource button that links to good video resources for each topic.
The application will be compatible with android and ios devices.	Partially met	The application is compatible with both android and ios devices. The styles and formatting looks much worse on android, due some of the styles being used in the app not being compatible with android through react-native, but the application functions fully on both platforms.
The application will follow the Apple Human Interface Guidelines.	Partially met	There are no major formatting problems in the application, and it follows the Apple Human Interface Guidelines for ios devices. Android devices, however do not quite follow the guidelines due to some styles incompatibility.
The application will have a	Partially met	There is a formula booklet

digital version of the IB Physics Data Booklet.		page, and it contains information about the Metric SI Multipliers (which is one part of the data booklet). It does not, however, include all information in the physics data booklet (like every formula for every topic, or the fundamental constants).
The application will have a page listing each IB Physics SL topic.	Met	There is a page listing IB Physics SL topics.

Client Feedback

Mr. X is very happy with the product as it stands. He commented that the product "looks like a good resource" and looks "very useful", see appendix for details. He said the formula booklet page looks "great". During our second meeting he saw the flashcards for the first time and said they were "good" and "quick". My client's main suggestions for improvement, also shown in the appendix, were twofold. First, that it may be even more efficient for the "Key Ideas" buttons to allow the user to select a subtopic they would like to be redirected to. Second, that the "Resources" button which links to a video related to a given topic could be expanded. He suggested that it could open a list of videos for users to "pick from a range of videos covering different aspects of the physics topic", instead of providing only one video resource.

Mr. X's main suggestion for possible improvement was that the application could migrate the actual IB Physics SL review content from external third-party pages to the actual app. He said it would make the product "feel more unified". Another suggestion he had was how expanding the Formula Booklet page to contain more information from the formula booklet would make it that much more of a helpful resource.

Overall, Mr. X said it looks like it could be a good resource for any students looking for some extra tools.

Recommendations for further improvement

One great feature that could be added to this product would be the ability to view videos explaining physics theories within the application. This would keep the user experience more streamlined and less confusing. To directly embed videos into the application, one could use the "Video" component of the "expo-av", (expo audio, video) library.

Another feature which could improve the product is fully dynamic styling inside the flashcards. Currently, the text does not always wrap correctly to fit within the flashcards. The text should have to be responsive to the size of the flashcard in such a way that the text size always adjusts to fit within the container with the correct margins. This could be approached by working with the CSS style attributes of the Flashcard “animatedbasic” component. I am not entirely sure how to go about implementing this, but I know that it should be possible in pure CSS, or made easier with an external dependency.

The product could also be improved by migrating physics content from third-party websites to the actual application. This would allow students to access the content without an internet connection. This could be achieved by following the structure implemented for the current navigation system, creating a new page, copying the formatting from an existing page, and replacing the content with the correct title, information, etc.