

phys-chem Calculator

User Manual

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Abstract

This document explains in detail about the 'phys-chem Calculator' to be developed using android. The 'phys-chem Calculator' will be a productivity app.

1 Why phys-chem Calculator?

- The phys-chem Calculator is a application developed for the user who are keen to solve the problems of physics and chemistry.
- It has two sections mainly physics and chemistry where the idea is to provide a smooth flow in solving problems in both of these fields.
- This application takes input as such and provides the output based on the laws embedded within that rule.
- For example for solving Kirchoof's law the user needs to provide the required input and based on that produces an output.
- It will help the users in various laws where according to the choice they can implement it as such.

2 Additional Features in phys-chem Calculator

- A well controlled Selection panel for both the parts which is physics and chemistry.
- Users will be enabled with the choice of selection as to which law is to be implemented within their headers like within physics their will be sub-topics which is laws..
- Users will be asked to input the required data.
- A well maintained sections for both chemistry and physics.
- A preview can be made for both chemistry and physics.
- Customizable user panel.

3 Existing Application

- "Science Formula Calculator Pro" is a application available in Play store.
- The functionalities provided by this application are also almost same.
- where user can select either of the two options but with some limitations.

4 Existing Application Limitations

- Science Formula Calculator Pro application does not provide units of measure and scientific notation as such. For example this app does not provide information as to which unit is converted to which unit.
- UI concentration(Lacks Fluidity in design).

5 Requirement Collection

- Survey conducted in within 20 to 30 students.
- Verbal inputs considered.
- Inputs enabled to know the view as to how efficient will this application be for the users.
- The next main concentraion was to know as to how many people use a calculator on daily basis majority gave a postive response as such.
- Next step was to know as to how beneficial will this application be to people,most of them agreed on the fact that they can use this application on daily basis in school and college's as such.
- Then we come to know as to how much useful this application will be if provided to students in school and colleges as such.
- As additional information some of them recommended better UI Support for this application.