Debre Berhan University

College of Computing

Department of Computer Science

Course: CoSc4083 – Mobile Application Development

Assessment 1: App Development Project – 1

	Last Commit: Friday, March 24, 17:30 EAT
Group:	
Name	<u>ID</u>

Instruction:

- ➤ Work in pair
- > Develop a mobile /android/ app that calculates the electric consumption of different appliance and monthly bill.
- > Create a github repository and publish your project.
- > Every member of the group should contribute at the same time in different part of the project
- ➤ Invite the github user "chalewt" /Chalew Tesfaye/ as a contributor to your project

Evaluation:

Criteria	Weight	Score
User Interface (UX/UI)	5	
Validity and passing the given test case	10	
Git commit and contribution	5	
Total:	20	

Task: You have been tasked with developing an electric consumption and bill calculator application for the Android mobile phone system.

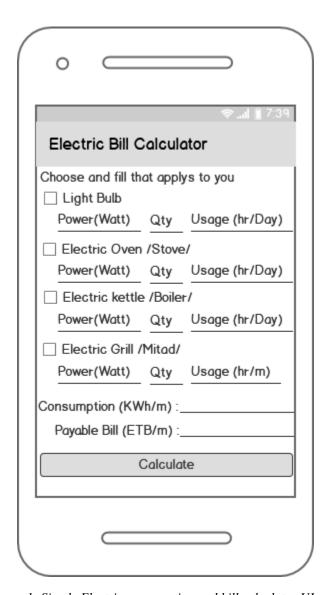


Figure 1: Simple Electric consumption and bill calculator UI mock

Expected Operation: The consumption and bill calculator will be expected to perform:

- accept the wattage, quantity and period of usage in hours per day or per month of the selected appliance, and calculate the monthly consumption of the appliance in watts.
- Add the total consumption of the selected appliance and display the monthly electric consumption in kilowatt hour (kWh). (1kW = 1000watt)

> Calculate the monthly bill of the customer according to the consumption rate given in

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ሁለተኛ ብሎክ	እስከ 100	0.7670
ሶስተኛ ብሎክ	እስከ 200	1.6250
አራተኛ ብሎክ	እስከ 300	2.0000
አምስተኛ ብሎክ	እስክ 400	2.2000
ስድስተኛ ብሎክ	እስከ 500	2.4050
ሰባተኛብሎክ	ከ500 በሳይ	2.4810

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	ቅድመ አ ንልግሎ ት ከ50 ኪዋስ በላይ	14.70

Table 1: Electric Consumption rate

(src: http://www.ethiopianelectricutility.gov.et/contents/postpaid)