

CCT College Dublin

Assessment Cover Page

Module Title:	Cross Platform Development
Assessment Title:	CA 3 - Theory and Practical (30%)
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GitHub link:	https://github.com/rpsbobby/electricity-bill-calculator--electron.js
Video link:	https://drive.google.com/file/d/1DmWdKhRaPSkmgkuMapA2argbLdvjsvEb/view?usp=sharing

Declaration

By submitting this assessment, I confirm that I have read the CCT policy on Academic Misconduct and understand the implications of submitting work that is not my own or does not appropriately reference material taken from a third party or other source. I declare it to be my own work and that all material from third parties has been appropriately referenced. I further confirm that this work has not previously been submitted for assessment by myself or someone else in CCT College Dublin or any other higher education institution.

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Overview

Electricity Bill Calculator

File

Calculate Electricity Bill

Units

Days

Calculate

Before VAT

After VAT

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(The Electricity Bill Calculator main screen)

We decided to have a very simple and intuitive interface for the user, with nothing more than a form, where they would type the units/number of days and a button to calculate. After calculating, the values are cleared so the user can calculate another electricity bill.

Inputting values

⚡ Electricity Bill Calculator

File

Calculate Electricity Bill

Units

Days

Calculate

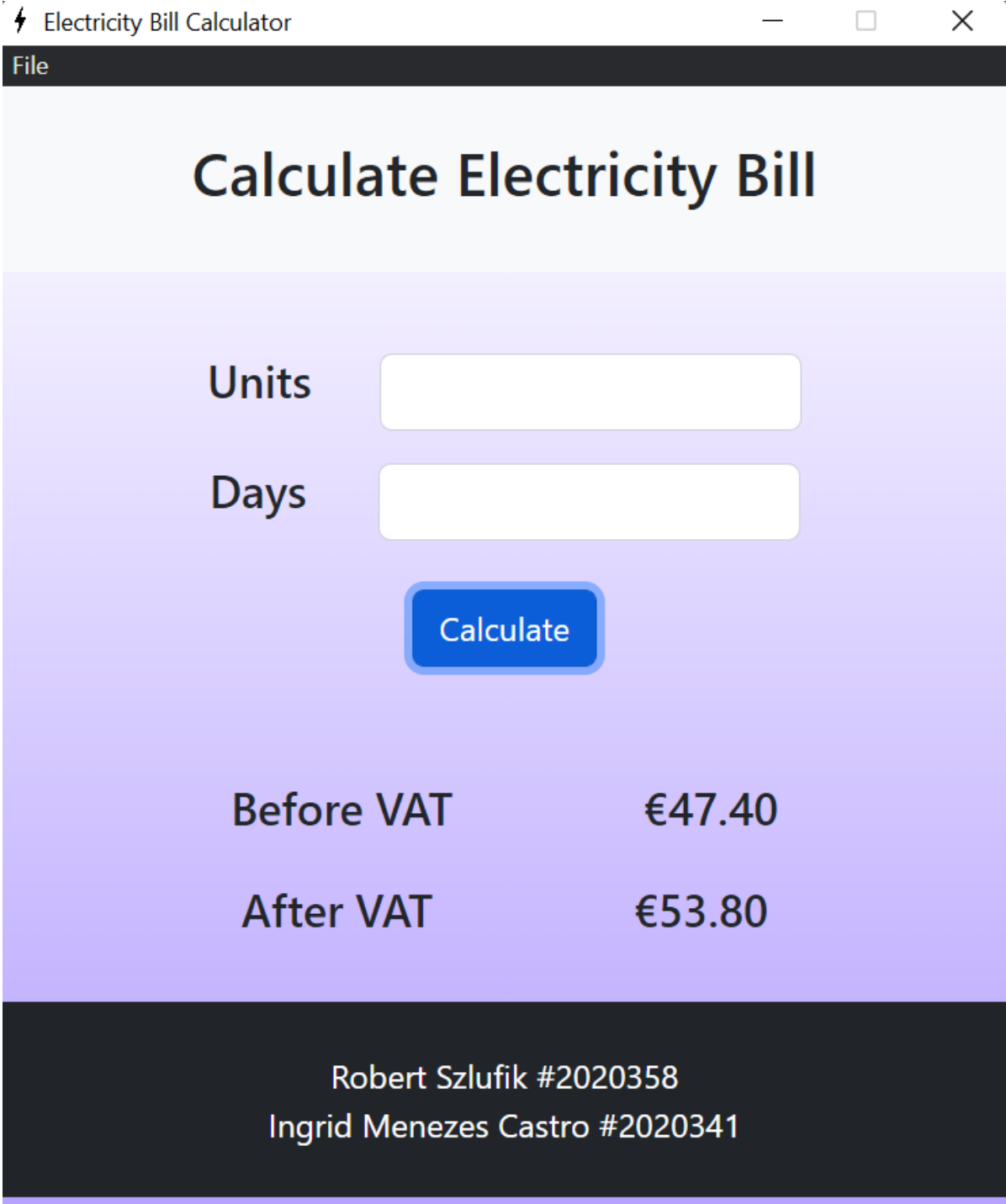
Before VAT

After VAT

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(Example values being inserted on the form)

Obtaining Results



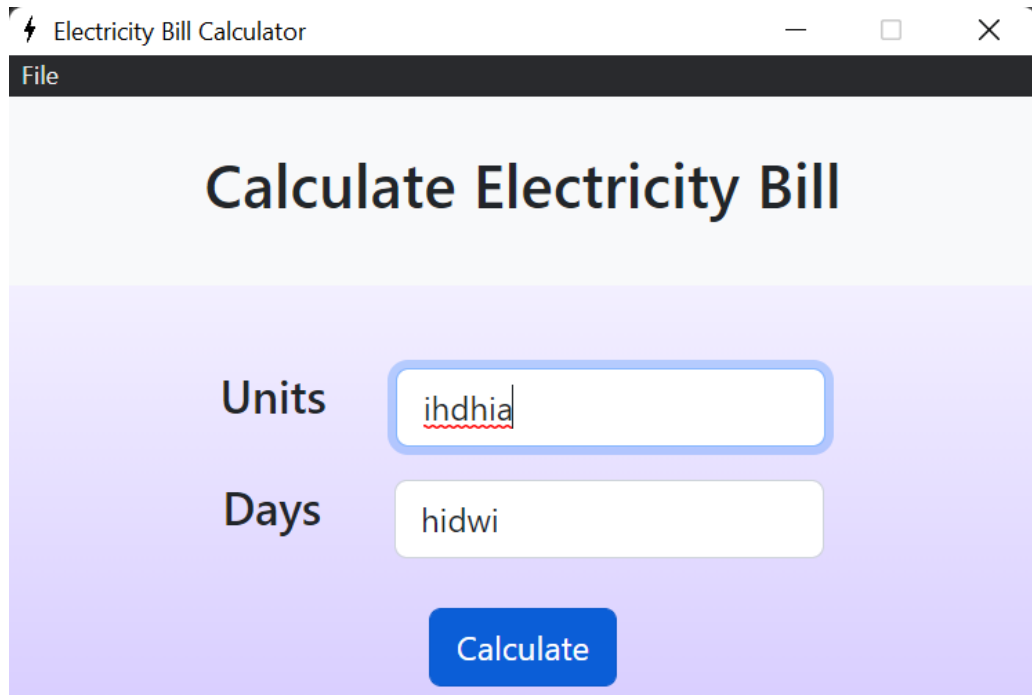
The screenshot shows a web browser window titled "Electricity Bill Calculator". The application has a dark header bar with the title and a "File" menu. The main content area has a light purple background and is titled "Calculate Electricity Bill". It contains two input fields labeled "Units" and "Days", a blue "Calculate" button, and a results section with two rows: "Before VAT" for €47.40 and "After VAT" for €53.80. A dark footer bar contains the text "Robert Szlufik #2020358" and "Ingrid Menezes Castro #2020341".

Calculate Electricity Bill	
Units	<input type="text"/>
Days	<input type="text"/>
<button>Calculate</button>	
Before VAT	€47.40
After VAT	€53.80

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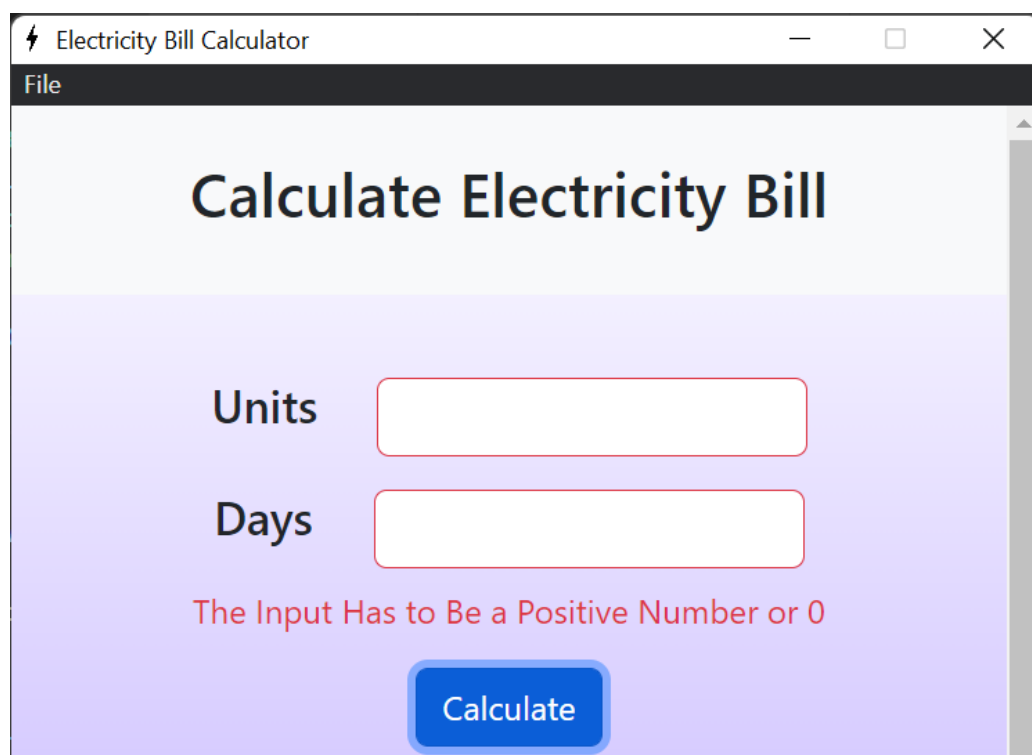
(Obtaining the values calculated)

Displaying errors



The screenshot shows a web application titled "Electricity Bill Calculator" with a "File" menu. The main heading is "Calculate Electricity Bill". There are two input fields: "Units" with the value "ihdhia" and "Days" with the value "hidwi". A blue "Calculate" button is at the bottom.

(Wrong values being inputted in the application)



The screenshot shows the same application after an error. The "Units" and "Days" input fields are now empty. A red error message is displayed: "The Input Has to Be a Positive Number or 0". The "Calculate" button remains at the bottom.

(Error message is displayed for the user)

Wireframe

The wireframe depicts a software application window with a standard macOS-style title bar at the top. The main content area is set against a light gray grid background. At the top center of the grid is the text 'APP NAME'. Below this, a white rectangular box contains two input fields: 'Units' and 'Days', each followed by an empty text box. Underneath this box is the text 'BUTTON'. At the bottom of the grid, there are four labels arranged in two rows: 'Before VAT' and 'After VAT' on the left, and 'Result Before VAT' and 'Result After VAT' on the right.

(App's Wireframe)

Individual Contribution to the project

This project in terms of collaboration was divided in two parts: the backend and front end. Robert was responsible for the backend (main.js, calculator.js, package.json) and Ingrid was in charge of the front end (index.html, styles.css, script.js).

Besides that Robert did the repository, the initial setup, unit testing and video presentation, while Ingrid was in charge of wireframe, video editing and the report.