TEAM DIONYSUS USER MANUAL

TECHVOLT

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I. Introduction

A. *Overview of the Application*

TechVolt, the Energy Consumption Tracker, is an ambitious project designed to revolutionize the way users interact with their energy consumption data and empower them to contribute to a sustainable future. The three-tier architecture, consisting of the client, server, and database components, ensures a seamless and efficient flow of information between users and the application's backend.

B. *Purpose of the User Manual*

The purpose of a User Manual is to provide comprehensive and accessible instructions to users on how to effectively and safely operate, assemble, install, troubleshoot, and maintain a product or system. It serves as a valuable reference guide, empowering users to understand the product's features, functionalities, and limitations, thereby enhancing their overall experience and ensuring they make the most of the product's capabilities while minimizing the risk of misuse or accidents.

C. *System Requirements*

Any Windows or MacOSX software that can run any version of IntelliJ and JavaFX sdk20.

II. Getting Started

A. Launching the Application

a. *To launch the application, click the Login.java file and run the file in order to start.*

b. *Entering Username and Password*

Enter the appropriate username and password in the respective fields and click the "Login" button to proceed. The application supports two types of users:
a. User: Username: "user", Password: "123"
b. Admin: Username: "admin", Password: "admin"
Note: The application will display an error message for invalid login credentials.

III. Main Application Interface

A. Overview of the Main Dashboard

a. *After successful login, users will be redirected to the main dashboard of the Electricity Bill Predictor application. The main dashboard provides features for managing appliances, viewing predictions, and more.*

B. Selecting a Month and Year

a. *The main dashboard allows users to select a specific month and year for which they want to view the electricity bill prediction. To select a month and year, use the MonthPicker component provided in the dashboard.*

b. *Using the MonthPicker Component*
    i. *The MonthPicker component is a user-friendly way to choose a month and year. Simply click on the MonthPicker field, and a calendar view will pop up, allowing you to select the desired month and year.*

C. Adding Appliances

a. *The application provides a list of preset appliances that users can select directly from the dropdown list. The preset appliances have predefined power wattage values.*
b. *Selecting Preset Appliances*
    i. *Users can add appliances to the electricity bill prediction by following these steps:*
    a. Select the appliance from the dropdown list of preset appliances.
    b. Enter the number of hours the appliance is used per day in the "Hours Used" field.
    c. Click the "Add Appliance" button to add the selected appliance to the prediction.
c. *Adding Custom Appliances*
    i. *Users can add custom appliances to the electricity bill prediction by following these steps:*
    a. Enter the custom appliance name in the dropdown list and select it.
    b. Enter the number of hours the custom appliance is used per day in the "Hours Used" field.
    c. Enter the custom appliance's power wattage in the "Wattage (in watts)" field.
    d. Click the "Add Custom Appliance" button to add the custom appliance to the prediction.

IV. Viewing Predictions

A. Predicted Monthly Bill

a. *After adding appliances, the application will display the predicted electricity bill for the selected month and year. The predicted bill is based on the total power consumption of the added appliances.*

B. Energy-Saving Tips

a. *The application also provides energy-saving tips based on the predicted electricity bill. These tips suggest ways to reduce electricity consumption and lower the monthly bill.*

V. Saving and Loading Data

A. Saving Data for a Specific Month

a. *The application allows users to save the added appliances' data for a specific month. To save the data, follow these steps:*

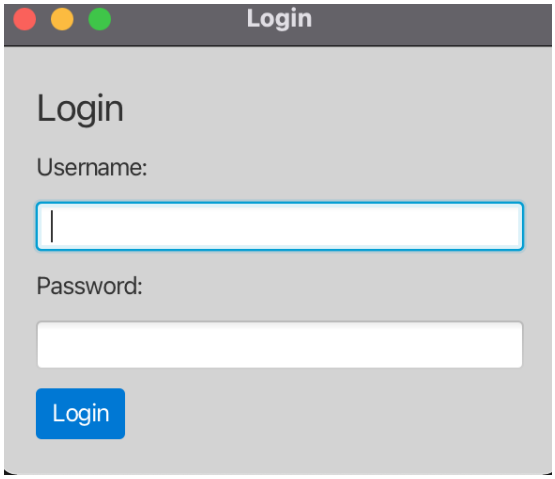
a. Select the desired month and year using the MonthPicker component.
b. Click the "Save Data" button to save the added appliances' data for the selected month.

B. Loading Data for a Specific Month

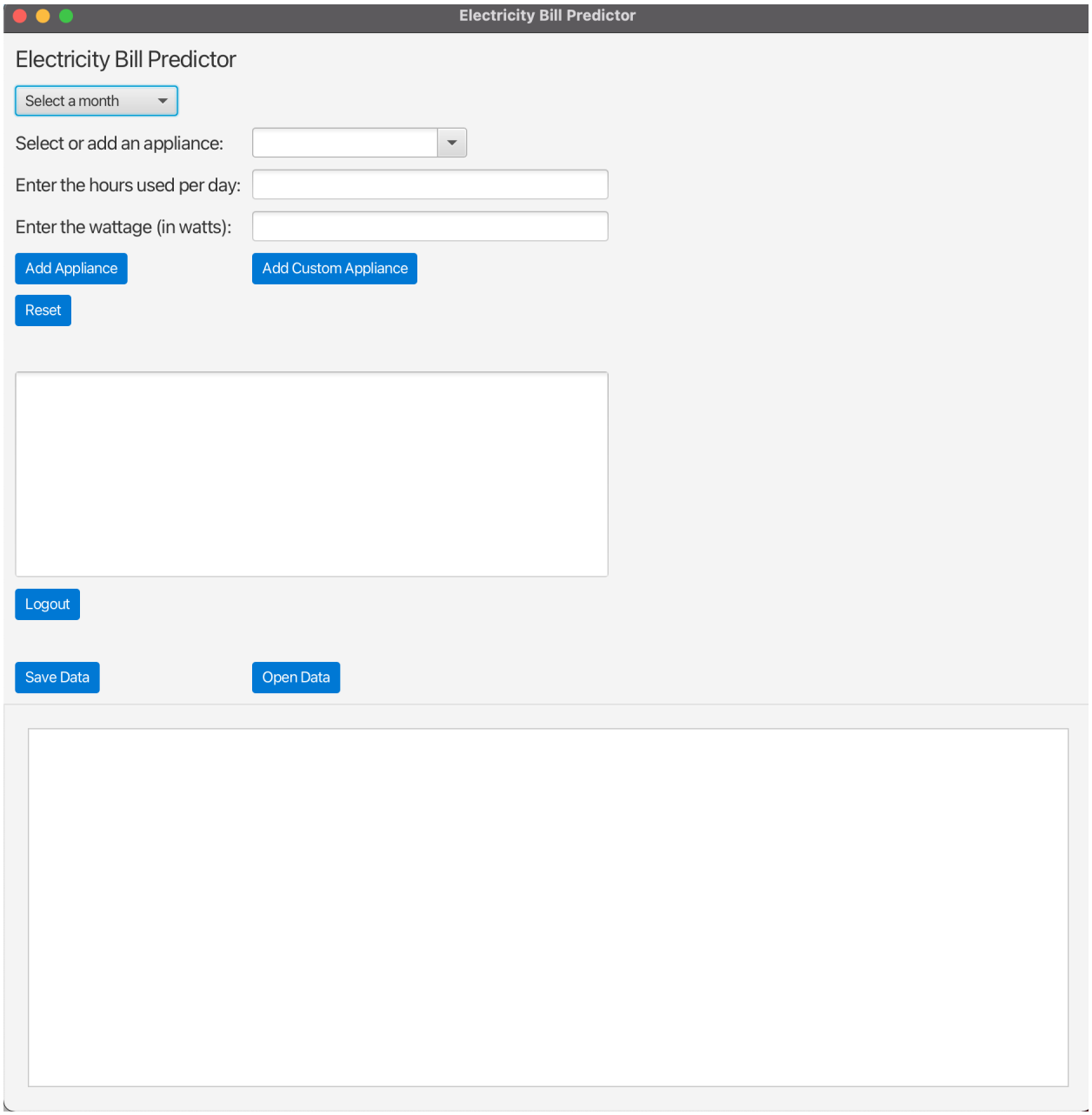
a. To load previously saved data for a specific month, follow these steps:
a. Select the desired month and year using the MonthPicker component.
b. Click the "Open Data" button to load the saved data for the selected month.

VI. Screenshots

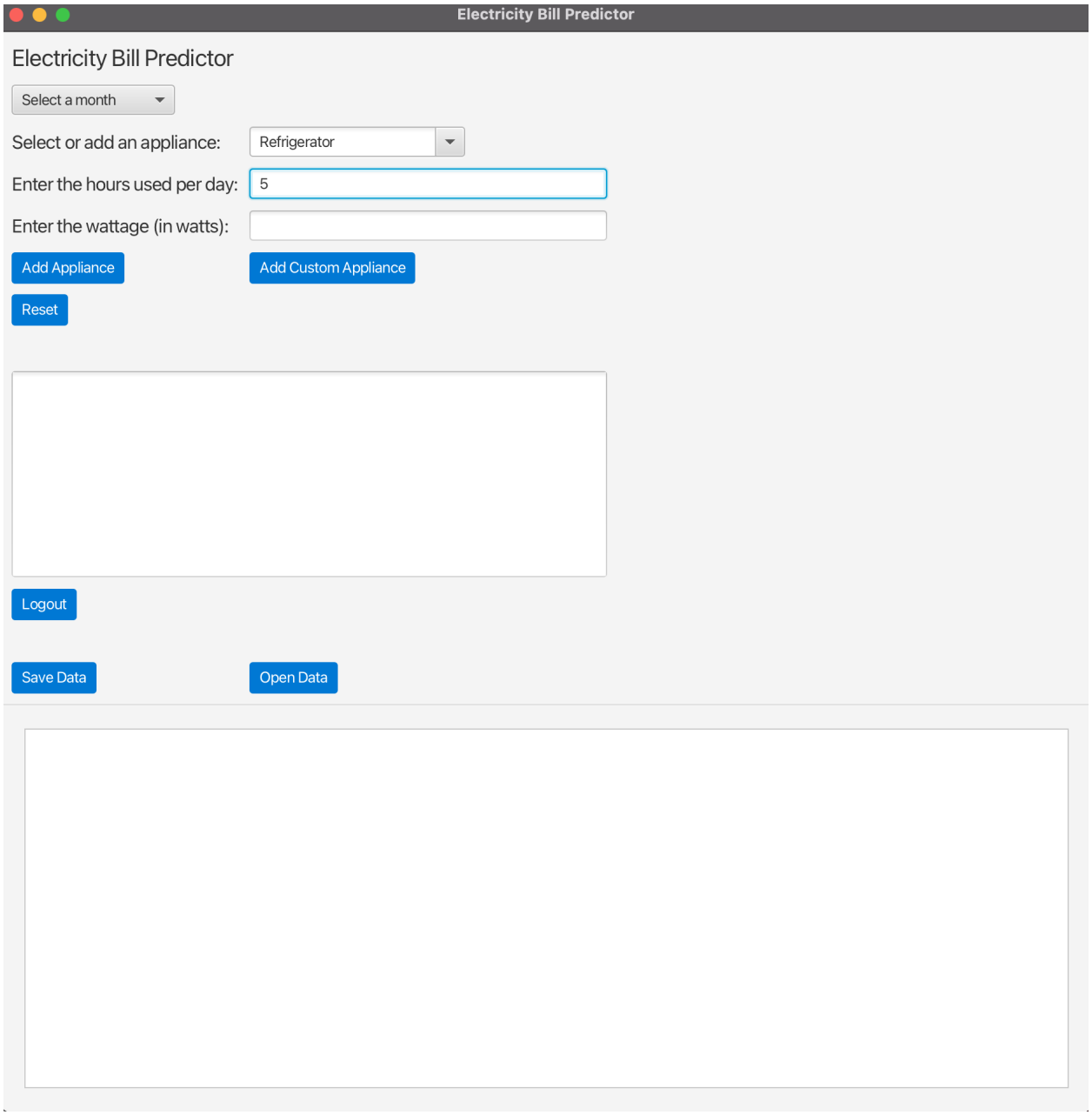
- Login Screen



- Main Application Dashboard



- Adding Appliances



- Predicted Bill and Tips