

EE333 Final Project

Customer Management

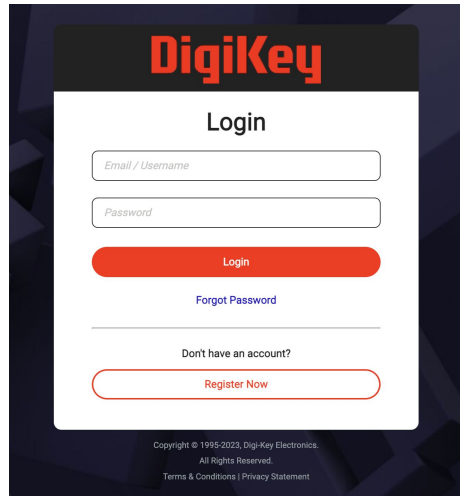
System

Jonathan Myers - Data Model
Tyler Brasher - Graphical User Interface
Adam Ingah - Infrastructure

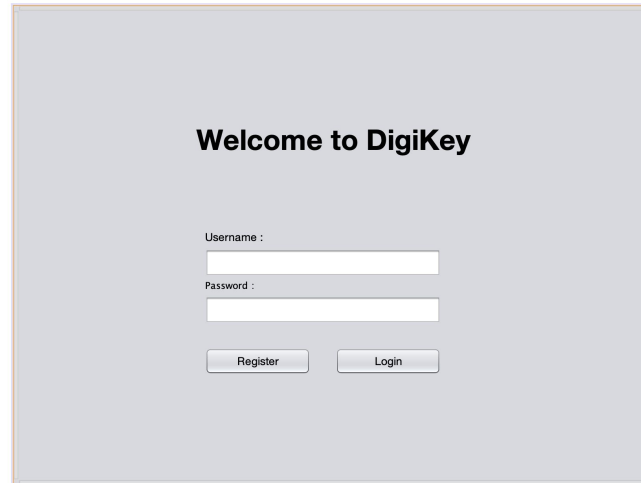
www.github.com/adamingah/EE333P5

Project Description

The purpose of the project is to develop a customer management system that behaves like many e-commerce platforms. The platform we are specifically attempting to replicate is www.Digikey.com. From this platform, we wanted to be able to handle orders, customers, and internal users.



The image shows a login form for DigiKey. At the top, the DigiKey logo is displayed in red on a black background. Below the logo, the word "Login" is centered. There are two input fields: "Email / Username" and "Password". Below these fields is a red "Login" button. Under the button is a link for "Forgot Password". At the bottom of the form, there is a link for "Don't have an account?" and a red "Register Now" button. The footer contains copyright information: "Copyright © 1995-2023, Digi-Key Electronics. All Rights Reserved. Terms & Conditions | Privacy Statement".



The image shows a "Welcome to DigiKey" form. The title "Welcome to DigiKey" is centered at the top. Below the title, there are two input fields: "Username :" and "Password :". Below these fields are two buttons: "Register" and "Login".



Functional Customer Requirements

- **Command line user interface AND Graphical User Interface**
 - Create, read, update, archive, and delete a customer
 - Read, Update (quantity), and archive products
 - Create, read, update, archive (ship), and delete an order
- **Maintain customer and product information in a structured file**
 - We used CSV format, and for the custom parser we used and regular expression.
- **Class Structure and inheritance for users and products**
- **Using appropriate encapsulation techniques for User Data**

Account Creation

Username

Email

Password

Shipping Address

Street

City

State

Zip

☐ Make Shipping Address Same As Billing

Billing Address

Street

City

State

Zip



Demonstration



Challenges and Improvements

/* To-do

- * 1. Validation is an important part of file input/output, but with respect to time it was skipped.
- * 2. Generating a random, unique ID for each user was a feature that was also cut due to time, but would have improved the functionality of the application
- * 3. A wizard for setting up the type repository that data was stored in was something that was cut
- * 4. Application/System testing was something we would've liked to do, but did not get to
- * 5. Overall refinements (Styling, bugs, etc.)

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