

eHill Description

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For UT EE422C Summer 2020

eHill is a new and better version of eBay! eHill allows users to log on to the server and place bids on desired items.

For Users

Welcome to eHill! Enjoy beautiful hill scenery while placing bids on items you want to have!

For first time users - Please click create new account to create a new account. Make sure your password is hard to guess (Lowercase, uppercase, number, AND special character). Also type in hint you could use later if you forgot your password.

If the username already exists, it will prompt you to try a different username.

If you forgot your password - Click forgot password and enter your username to get a hint that you typed when you created your account. Use the hint to guess the password and log on. You will only have 1 attempt... If you still have trouble logging on, please contact me.

Returning user - simply log in!

GET ONLINE - click this button to get online and get the latest items and prices!

Auction page - you can see item names, item pictures, it's current price, and time remaining.

To place bid - type in amount in cents higher than current price and click BID

IMPORTANT!!

To pay for your won item and get shipping PLEASE CONTACT ME!

ANY OTHER QUESTIONS? NEED HELP? CONTACT ME!

For programmers

This program uses javafx, multithreading, synchronization of threads, sockets(client server), observer pattern (observer, observable), MySQL database, and JSONObject.

JavaFX - to enhance user experience with GUI

Multithreading - for bid countdown timer and handling multiple users

Synchronization - to ensure prices are updated and accurate for all users.

Sockets - for communication between user and the server

Observer - to update all users when new bid is placed

MySQL database - to store user information and item information

JSONObjects - to communicate between server and user

Key Takeaway

Connecting FXML and loading different scenes, controlling user behavior

Using correct thread to change GUI (GUI has its own thread)

Sending JSON through sockets and parsing them

MySQL syntax and how to use JDBC

Observable Pattern to update all users of changes

Ending users thread gracefully

For additional insights on programs and features, please contact me!