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CSCI 4950

Dr. Wei

Senior Project Proposal

Kudos

I propose to create a program that allows for an individual to show gratitude to another. For example, say you have received exemplary customer service and would like to express that you are thankful to the employee for their services. You could provide them with your phone number, if it is not already known to them. Allowing them to select a small gift item, whereupon once you, the giver has approved, the program would send them a digital voucher that would be redeemable for a gift-item. Gift items would be registered by company, with organizations opting into the service. Users would be registered by ten-digit phone number as well as an associated password. The password is to be hashed before it is stored, with that hash being checked against upon a user logging in. As an additional security measure payment information associated with the ‘Giver’ would not be stored at any point but instead checked with each transaction. Implementation will involve first eliciting additional requirements from my client, designing and constructing the associated database and then constructing and refining the program. I intend to use a combination of Java, XML, & SQL to accomplish this, following a SCRUM Development process with an MVC design. I will be using Eclipse, XAMP, & MySQL Workbench to design a JavaFX GUI that will allow for any user to register, log in, give another individual a gift, and/or be notified when they are given a gift, as well as the ability to redeem the gifts they have been given and to approve the gifts they are giving. Due to constraints, at first the organizations, payment information, user-phone numbers and gift items will be fictional for the time being, with the program maintaining a design that will allow for these items to be replaced and added to with real-world data in the future. Ideally, I would like to attempt to establish this as functioning through a venue local to UNG, namely the campus coffee shop, using the Campus Cash system as a payment method. Admittedly this will be a first for me and as such I will be eliciting the guidance of my Professors to accomplish this aspect. The only technology required by the end-user should be any device that can connect online and has a display that allows for interaction, a laptop, a desktop, or a cell phone. I intend to use Gluon’s “JavaFXPorts” Eclipse Plugin to accomplish this cross-platform aspect, also, admittedly, another first for me. My expected outcome is a fully functioning, secure, runnable program that interacts with an online database allowing for multiple, simultaneous users.

Professional References:   
  
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